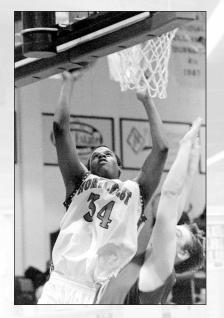
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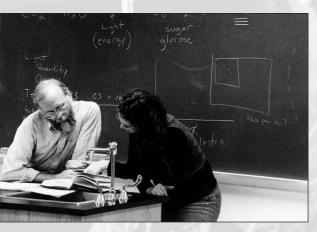
Northwest College reserves the right to change without notice any of the material, information, requirements, regulations, or costs published in this catalog.

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









Photos clockwise from lower left by Janeen Wassink, Chris Burke, Lance Smith, Aaron Svec, Nicole Knapp, and Mike Frisbee. Full page image by Jody Johnson.



# **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. Wyoming's area code is 307.

admissions@nwc.cc.wy.us

www.northwestcollege.org

Switchboard	754-6000
Toll free for Enrollment Services	. 1-800-560-4NWC
Admissions	754-6101
Financial Aid	754-6158
Registration Services	754-6113
Residence Life/Housing	754-6165
President	754-6058
Dean of Administrative Services	754-6403
Dean of College Relations & Developme	ent 754-6409
Dean of Instruction	754-6472
Dean of Student Services	754-6102
Registrar	754-6149
TTY (Telecommunications device for the deaf)/V	oice754-6225

# How to Use This Catalog

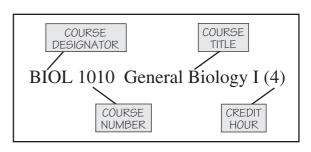
Nearly everything that you need to know to have a successful student career is contained in this catalog. Locating the material will be easier if you become familiar with the college terminology. Once you have learned what the terms are, turn to the index at the back of the catalog. This will give you 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. 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 28 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.

Northwest College is a dynamic learning community located in Powell, Wyoming, near Yellowstone National Park. In this exceptional setting, students of all ages and backgrounds receive personal attention from a highly credentialed faculty and staff. Northwest's diverse blend of academics, access to emerging technologies, and activities equips students to think critically, to fully develop their potential, and to succeed in an ever changing world.

# History

The college opened in 1946 with nearly 100 full- and part-time students and three instructors who met in class-rooms 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 and builds upon its strengths.

# 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 1997, 503 students entered Northwest College as first-time degree seeking students with 29% 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 community of people dedicated to providing an environment that fosters excellence in education. The college responds to the educational, career, cultural, and social needs of students and the larger community. At Northwest College, students may pursue transfer, occupational, developmental, lifelong learning, and personal enrichment goals.

Northwest College serves individuals from Park County, northwestern Wyoming, the states of Wyoming and Montana, and other states and countries.

Northwest College is committed to students as individuals, to excellence in education, to institutional accountability, to providing a residential campus, and to the support of cultural diversity.

# Goals

The college seeks to fulfill its mission through a commitment to an ongoing planning process and the pursuit of these goals:

- To provide academic and professional education which qualifies students to transfer to baccalaureate-degree granting institutions.
- To provide occupational and technical education which qualifies students for employment or transfer.
- To provide basic education and skills that prepare students for future success.
- To provide access to a variety of educational opportunities on and off campus.
- To provide intellectual, cultural, recreational, and social opportunities through courses, activities, and events.
- To provide a traditional collegiate residential environment.
- To provide accountability by establishment and evaluation of performance in relation to appropriate standards for all programs, courses, services, and personnel.
- To maintain an excellent educational environment by seeking and supporting a diverse student body and a diverse and highly qualified faculty and staff.
- To provide facilities, services, and other resources to groups, educational

institutions, business and industry, and other agencies as a community service.

- To develop and maintain facilities from which to administer and deliver college programs.
- To maintain effective forms of communication with internal and external constituencies.
- To seek public and private resources to support the college.

# Endurables

Northwest College reaffirms the following "endurables" — 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, Mont., 510 miles from Denver, Colo., and 25 miles from Cody, Wyo., 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. Very 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 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.

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.

A computer lab will also be available at the Cody center 2001-2002.

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

# 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.

# 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 with two overriding purposes: 1) to carry out programs and activities that serve alumni, and 2) to develop ways to enable alumni to serve the college. As an integral part of the college community, the association establishes, encourages and maintains a mutually beneficial relationship between the college and alumni. Additionally, the association serves as a resource group from which the college receives political and financial support and from which the administration seeks counsel and advice. There are just over 15,000 NWC alumni; an alumnus is defined as anyone who attended the college full time (12 or more credit hours), successfully completing at least one semester.

# 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, official transcripts, and proof of measles, mumps and rubella (MMR) immunization for students born after 1956. All applicants are encouraged to submit scores on the American College Test (ACT) or the Scholastic Aptitude Test (SAT). Results are used in admission decisions, 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.

### 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 consider applicants who have graduated from a state accredited high school other than Wyoming and who meet out-of-state admission requirements.
- 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, and/or an ACT with a minimum composite score of 18 or a minimum SAT score of 840, or show special aptitudes indicating promise of success in college.
- Out-of-state applicants who have not graduated from a state accredited high school may be considered for admission if they have successfully completed the GED with an average score of 50 and submit results of the ACT, 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 transcripts from all colleges attended and who were in good standing at the last college attended.
- Transfer students with fewer than 15 credit hours of transfer credit must also submit a high school transcript and results of the ACT or the SAT, if available.
- 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 may have their transcripts evaluated by the Registrar upon request.

- Generally, students who have a cumulative grade point average of 2.0 (C) or above will have courses with "D" grades accepted as well.
- Courses are transferred but not the letter grade.

### INTERNATIONAL STUDENTS

Northwest requires a minimum TOEFL score of 500 for admission. Exceptions to this requirement must be ruled upon by an Enrollment Services Committee. 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.

#### AS SPECIAL STUDENTS

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 25.) 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 review by the Director of Enrollment Services.

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

Students under age 18 who are not enrolled in a state accredited high school but can demonstrate college-level ability in one of the following ways:

- an ACT composite score of at least 21 or an SAT score of at least 970,
- or other evaluation by appropriate NWC faculty for enrollment in technical skills courses.

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.

Junior and senior students enrolled in a state accredited high school with a cumu-

lative 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.

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

# 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 diploma 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 16 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 applica-

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

### **EXCEPTIONS**

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 also have Dual Admissions with Montana State University in Bozeman and Billings, and the University of Wyoming.

A student entering through dual admissions is simultaneously admitted to Northwest College and Montana State University-Bozeman or -Billings, or the University of Wyoming. 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 Discount**

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 outof-state rate. Currently, tuition rates will also be calculated at 150% of Wyoming tuition for Nebraska residents.

# **2001 - 2002 Expenses**beginning fall 2001

# SEMESTER FLAT RATE

(11.5 to 20 credit hours)*	Wyoming Resident	Nonresident**	WUE***
Tuition	\$ 588.00	\$ 1764.00	\$ 888.00
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)	) 22.00	22.00	22.00
Subtotal	\$ 830.00	\$ 2006.00	\$ 1130.00
Course Fees	vary	vary	vary
Books / Supplies estimate	325.00	325.00	325.00

# PER CREDIT HOUR RATE

	Wyoming Resident On Campus Classes	Wyoming Resident Off Campus Classes	Nonresident**	WUE***
Tuition	\$ 49.00	\$ 49.00	\$ 147.00	\$ 74.00
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	\$ 67.00	\$ 61.00	\$ 165.00	\$ 92.00
Course Fees	vary	vary	vary	vary
Off Campus Facility / Equipm	nent Fee varies	varies	varies	varies
Books / Supplies	varies	varies	varies	varies

<sup>\*</sup> Students taking 20.5 or more credit hours pay the flat rate plus additional tuition at the per credit rate.

# ON-CAMPUS HOUSING RATES

RESIDENCE HALLS	<u>Semester</u>	<u>Annual</u>
Standard Double Room	\$ 781	\$ 1,562
Standard Double Room w/Internet access (Ashley or Colter Hall only)	821	1,642
Small Single Room	881	1,762
Super Single Room	1,151	2,302
Super Single Room w/Internet access (Ashley or Colter Hall only)	1,191	2,382

A \$100 room reservation / damage deposit due upon reservation.

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

### **APARTMENTS**

Rates range from \$265 – \$944 per month.

Individual Meal Ticket Books

A \$150 – \$200 apartment reservation / damage deposit due upon reservation.

MEAL PLANS		Semester		Annual	
Traditional 19 Meal Plan	\$	816	\$	1,632	
Flex 15 Meal Plan	\$	816	\$	1,632	
Traditional 10 Meal Plan	\$	680	\$	1,360	
Flex 6 Meal Plan	\$	680	\$	1,360	
Flex Bucks Meal Plan (some restrictions apply)	\$	300	\$	600	

50 per book ALL COSTS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

<sup>\*\*</sup> 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).

<sup>\*\*\*</sup> See WUE (Western Undergraduate Exchange) on page 7.

# 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 7.

#### **FIXED FEES**

On-campus 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: 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 – \$200. 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 Educationtuition & fees/credit
Internshiptuition & fees/credit
Independent Studytuition & fees/credit

#### OTHER CHARGES

Application fees: Out-of-State	\$10
International	\$25
New Student Orientation	\$35
COMPASS Test	\$10
COMPASS Test, Re-take\$3	/test
Dual Admissions	\$40
Equine Stabling Charge \$725 per horse/seme	ester
New Student Orientation	\$30
Transcript, Official Copy\$1/c	ору
Transcript, Official Copy, by FAX\$5/c	ору

# ACCIDENT INSURANCE AND HEALTH PLANS

Students enrolled in 12 or more credit hours are required to pay \$22 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.

# Payment Policy

## METHODS OF PAYMENT

Northwest College accepts cash, checks, money orders; VISA, MasterCard, and Discover credit cards.

# PAYMENT OF SEMESTER COSTS

Students may pay at any time after regis-

tering for classes. The deadline for payment in full of student accounts (tuition, fees, room, board, rent) is one day prior to the day classes start each semester. Unpaid balances will be billed monthly with interest charged on the unpaid balance at the rate of 12% annually (1 percent monthly). Interest will begin to accrue the day classes begin and will be added to the student account monthly. Interest added will become part of the student's balance and interest will be charged on the resulting balance (compound interest). The first billing will occur on September 25 and thereafter on the 25th day of each month.

Students whose unpaid balance is \$300 or more cannot register for classes in subsequent semesters until the balance falls below \$300. Any students with unpaid balances of \$300 or more will have a hold placed on their student account. Students with holds on their accounts are unable to make registration changes or request transcripts. When an unpaid balance becomes less than \$300, the hold will be removed.

At the end of each academic year (June 30), inactive student accounts with an unpaid balance of \$50 or more will be turned over to an external collection agency. Inactive accounts are defined as accounts of students who have not registered for classes for the two previous consecutive semesters.

# 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.

# REGISTRATION DEPOSIT

Registered students who cannot attend classes may receive a 100 percent refund of their deposit if the request is made in writing and received by the Registrar by 5 p.m. the business day before Registration Day.

## TUITION, FEES, ROOM, BOARD, RENT\*, AND WITHDRAWAL\*\* FROM COLLEGE

Students may withdraw from college without penalty on the first official day of class (the first business day after Registration Day) and receive a 100 percent refund. Thereafter, students who **officially withdraw\*\*** may receive a refund of the total billable amount based upon the following schedule.

First 10% of semester 90% refund First 11-25% of semester 50% refund First 26-50% of semester 25% refund Second 50% of semester No refund

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.

\*Rent refunds are prorated based upon check-out dates.

\*\*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 9 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). The amount awarded may range from \$400 to \$3,750 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. The interest rate is variable, with a maximum rate of 8.25%. 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, with a maximum rate of 9%. Repayment begins 60 days after disbursement.

#### 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 Student Success Office), 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. Veterans who wish to use their G.I. Bill benefits must complete an application for veterans' benefits and submit it to Northwest 60 days prior to enrollment to ensure payment prior to registration. Veterans must pursue a degree with a specified major area of emphasis to qualify for veterans' benefits.

# **Scholarships**

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

# NORTHWEST COLLEGE SCHOLARSHIPS

## **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 pro-

**grams:** 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.

Cheerleading \*
Forensics
Livestock Judging
Men's Basketball
Men's Rodeo
Men's Wrestling

Newspaper Music Instrumental \* Music Vocal \* 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 a 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 3.00. 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 2.00 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 24.

# Field Studies

Field-study courses can enrich students' learning experiences at Northwest. These studies deepen participants' understanding of history, culture, arts, language, and the environment. Courses are offered during weekends, Winter Holiday, Spring Break, and summer months. Recent field-study programs included trips to Ireland, Hawaii, France, South America, Israel, and the southwestern United States.

# Theme Houses

Theme Houses provide focused, stimulating living and learning experiences. Students with related academic interests share specially designated apartments at the West Campus. Current Theme Houses include Agriculture, Art, Writing, Music, Photography, and Science. To be eligible for this outstanding opportunity, students must:

- have earned at least 15 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
  Students living in Theme Houses
  participate in specially designed courses
  that provide advanced study, skill development, and applied activities in the
  community. These courses typically meet
  in the Theme Houses. With permission
  from Theme House faculty sponsors,
  interested advanced students not living in
  the Houses may also be eligible to partici-

# Academic Activities

pate in House-related learning activities.

Northwest College fields teams in Equine Judging, Forensics, and Livestock Judging. They have achieved significant rankings nationally. The Livestock Show Team competes regionally.

Students interested in music, business, and publications have opportunities to participate on campus activities regardless of their degree program.

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

# Honors Program

The Honors Program at Northwest College provides recognition of outstanding academic ability, additional intellectual stimulation, and increased social and cultural opportunities. Honors seminars enhance independent thinking by requiring in-depth and coherent analysis of subject matter and ideas. Honors Program Seminars include:

- PHYS/HIST/CHEM 2149 Nuclear Century (3)
- HIST 2070 The Holocaust: A Survey (3)
- ENGL 1020 (Honors Section) English II: Introduction to Literature (3)

With the exception of the ENGL 1020 Honors Section, the Seminars are open to any NWC student. The prerequisite for the ENGL 1020 Honors Section is acceptance into the Honors Program or completion of ENGL 1010 with an "A-" or better. Additionally, Honors Program students can apply for honors credit in any college course numbered 1000 or higher. Honors Program credit is noted on students' NWC transcript and students must complete 12 honors credits to graduate with distinction from the program.

Students from all disciplines may apply to the Honors Program.

The Honors Program Committee will make each program acceptance decision upon the receipt of all required materials. All materials will be treated in confidence.

For further information contact the Enrollment Services Office or visit the NWC Honors Program Web site at http://chem.nwc.cc.wy.us/honors.

# 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.

# 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 lifelong learning. The Office of Extended Campus provides educational opportunities in Park, Big Horn, and Washakie Counties.

Classes for college credit and student support services are available in Big Horn Basin communities. Extended Campus credit courses parallel the standards and requirements set at Northwest College. NWC offers on-site instruction in several Basin communities and interactive television courses. A new multiclassroom facility will open in Cody, Wyo. in 2001-2002.

Residents seeking additional information about the programs and services available in their area are encouraged to contact the Office of Extended Campus.

# 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 education 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 prerequisite requirements associated with the course. High school students must be recommended 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 9.

# Work Force Development and Continuing Education

The College is committed to providing a variety of training programs, certificates, and courses where 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 earn credit for a variety of planned, independently designed academic activities which include cooperative education, independent study, internships, and field research.

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, stu-

dents 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. Internships may or may not be paid work experiences, but they all involve a structured 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 particularly useful in helping students master use of the electronic library and computer labs. 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.

# **Community Education**

Powell Valley Community Education, supported cooperatively by Northwest College and Park County School District Number One, provides programs for personal enrichment, driver's education, and continuing education to residents of the Powell area, plus Elderhostel classes and the Powell Health Fair. 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 winter/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.

# 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 Requirement, Residence Life, and Food Services

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 then 9 credit hours are eligible to live in campus housing if space is available. Stu-

dents who have children or minors living with them should explore housing options at Trapper Village West.

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* and *Traditional 10* 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. There is also a standard *Flex* plan available to eligible students for use in both the 7th Street Grille and the Dining Hall.

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

### HOUSING APPLICATIONS

Admitted applicants who indicate they intend to live on campus 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—140-bed coed hall Bridger Hall—134-bed women's hall Cody Hall—168-bed coed hall Colter Hall—70-bed coed hall

# APARTMENT FACILITIES Trapper Village Main

Trapper Village Main consists of five apartment buildings containing oneand 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. Academic interest "theme" houses are available to eligible students. Contact the Residence Life/Housing Office for details.

# HOUSING DEPOSIT/DEPOSIT REFUND

Northwest College requires a \$100 housing deposit to reserve a space in the residence halls. Apartment deposits range from \$150 to \$200. 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 refund.

Because meals are planned in advance, students are charged for meals on a prorated basis, up to and including the week of check out. 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, and staff. Children must be ages 2-12 and toilettrained. 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. Students, faculty, and staff 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 and meeting 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 more than five 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, Rod Burners, and Nursing Club), others with special interests (e.g. International Club, 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 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 out-door 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 from one academic advisor to another, and/or change their degree specialization by requesting and completing a change of advisor/specialization form from Enrollment Services.

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 any student 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 any student desiring it. Counselors strive to assist students to deal with the sometimes stressful college environment, foster awareness of personal strengths and interests, and encourage them to take full advantage of the opportunities for academic and personal growth. Both individual and group counseling are available by appointment.

# DISABILITIES ACCOMMODATIONS

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 all academic areas for any student. 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.

### 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 applications and scholarship information are 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.

# Hinckley Library

Hinckley Library, situated at the center of Northwest's 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 houses a collection of nearly 50,000 volumes and 76,000 pieces of microform. The library subscribes to over 475 periodical titles. The library is a depository for government documents. The library provides facilities for using the following: personal computers, tapes, microfilm, video cassettes, CDs, phonograph records, photocopy service, and typewriters.

The library is a member of the Wyoming Libraries Database (WYLD). An online catalog and a fully automated circulation system access Northwest College holdings as well as holdings from throughout the state. WYLD also offers additional indexes with some full text articles. Other online sources give access to additional library catalogs and other databases.

Hinckley Library serves all Northwest students, staff, and faculty, in addition to area residents. The library handles over 900 interlibrary loan requests each year. Staff also answer reference questions, give library tours, and assist patrons in locating materials and data.

# Computer Services

Computers for student use are accessible from many locations across the campus using a Novell network. 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. These labs are utilized for scheduled classes and open hours for students. Each residence hall also has a lab with one to three computers available 24 hours a day at the discretion of the residence hall director.

A computer lab will also be available at the Cody center 2001-2002.

The Northwest College Web site address is **www.northwestcollege.org** 

# Job Placement Services

Many students enrolled at Northwest are employed on a full- or part-time basis,

both on and off campus. The Cooperative Education Office assists students in finding employment while attending college.

The following services are available to Northwest College students:

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

# 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. Transcripts are \$1 each. 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

Information regarding VA certification can be obtained from the Registrar.

# 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.

- ACT composite below 18–English placement test required
- ACT composite below 19–Reading placement test required
- ACT Math sub-score below 23— Math placement test required

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

### **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 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. 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, Dropping Courses, page 10.

Students who add a class to their original enrollments may do so for eight 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 midterm 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 midterm.

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. 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 that include the College Level Examination Program (CLEP), 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 midterm. For challenge examinations, the college assesses an administrative fee for each credit earned. See Alternative Credit Charges page 9. 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 midterm. 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.

#### CLEP

Northwest College accepts the Subject Examinations of the College Level Examination Program (CLEP) of the College Entrance Examination Board. The college awards credit for CLEP scores at or above the minimum scores established by the college, as follows:

<u>TEST</u>	<u>SCORE</u>	NWC Course
American Literature	55	ENGL 2310 or 2320
Analysis & Interpretation		
of Literature	55	ENGL 1020
English Literature	55	ENGL 2210 or 2220
Freshman English	55	ENGL 1010
College Composition	55	ENGL 1010
American Government	55	POLS 1000
Western Civilization I	50	HIST 1110
Western Civilization II	48	HIST 1120
US History I	49	HIST 1210
US History II	49	HIST 1220
Biology	49	BIOL 1010 & 2020
General Chemistry	50	CHEM 1020
General Psychology	50	PSYC 1000
Introductory Sociology	56	SOC 1000
French, German, Spanish	See Faculty	Levels I & II only
College Algebra	48	MATH 1400
Introductory Calculus	49	MATH 2200
Trigonometry	54	MATH 1405
Algebra/Trigonometry	50	MATH 1450

Students must apply for the examination(s) one month before they wish to take the examination(s). Contact the Student Success Center for more information and for copies of CLEP Policy and current cost of CLEP tests. The college assesses a non-refundable fee for each 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 9. 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	
В	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	d	
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 20.

### **GRADE REPORTS**

Final grade reports are prepared by the Registrar at the close of each semester and distributed as soon as possible. Copies are available to the students and persons they designate in writing.

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.

### HONOR ROLLS

Students who have earned 12 credit hours (in college-level course work — see list of Below College-Level Courses on page 28), 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, 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 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

Students in *good standing* maintain a cumulative GPA (CumGPA) of at least 2.0.

Academic probation is notice that a degree-seeking student is not making satisfactory progress. The Academic Probation, Suspension, and Dismissal Policy of the Admissions, Standards, and Awards Committee (ASA) places students on probation when their cumulative GPAs fall below 2.0. When the college places a student on probation, the student and his/her academic advisor receive a letter from the Registrar explaining the student's status. Students may restore themselves to good standing by raising their CumGPAs to at least 2.0 in the following semester.

If a student fails to achieve good standing in the following semester, the

ASA places the student on *continued probation*. The Registrar sends a letter to the student and his/her academic advisor explaining the student's status. If a student shows good progress by achieving a semester GPA greater than 2.0 but the CumGPA remains below 2.0, the student remains on *continued probation*.

If a student on continued probation fails to achieve a semester GPA of at least 2.0 in the following semester, then he/she is placed on academic suspension. A full-time student (12 or more credits) may "return on probation" either by enrolling in not more than six (6) credit hours until restoring the CumGPA to at least 2.0 or by sitting out one academic semester. A part-time student (less than 12 credits) may "return on probation" by either enrolling in three (3) credit hours (or one course that may exceed three credits) or by sitting out one academic semester. If the student chooses to sit out one academic semester he/she would enroll the subsequent semester as "return on probation."

A student is placed on *academic dismissal* if he/she fails to achieve a semester GPA of 2.0 for the first semester he/she enrolls after being placed on academic suspension. 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.")

### SUMMARY

A student in *good standing* maintains a 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, or
- a student enrolls after sitting out a semester due to academic suspension.

# Academic suspension occurs when

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

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 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 Admissions, Standards, and Awards Committee. 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 ASA Committee 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.

- Apply for admission at the school to which you wish to transfer.
- Go to the Registrar and fill out a transcript request form. This form asks where you would like your transcript sent. The Registrar will send your transcript 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

Sample degree worksheets are 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 28.

# 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.

# GENERAL EDUCATION REQUIREMENTS

# American and Wyoming Government (3-6 credits)

POLS 1000 American and Wyoming Government (3), 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, ENGL 2010 Technical Writing, or ENGL 2030 Critical Reading and Writing.\*

# English/Business Communication (6 credits) AAS Degree only

Six credits to be selected from: ENGL 1010 English I: Introduction to Composition (3), ENGL 1020 English II: Introduction to Literature (3), ENGL 2017 Introduction to Research, ENGL 2010 Technical Writing, ENGL 2030 Critical Reading and Writing, or BADM 1020 Business Communication (3).\*\*

\* 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.

# General Education Requirements

CATEGORIES	AA Credits	AS Credits	AAS Credits
American and Wyoming Government <sup>1</sup>	3-6	3-6	3-6
English	6	6	- 6
Business Communication			O
Mathematics	3	3	3
Lab Science	4	4	
Humanities¹	. 9		6
Visual and Performing Arts		6	0
Social Science	6		
Multi-Cultural Awareness <sup>1</sup>	6		
Wellness	2	2	2
TOTAL CREDITS	36-42	24-27	20-23

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

# 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 (6 credits)

#### AS Degree only

Six credits to be selected from two of these three areas.

### 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.

#### Mathematics (3 credits) AA and AS Degrees 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.

# Multi-Cultural Awareness (6 credits) AA Degree only

Courses selected from the approved list of courses meeting this requirement (see page 27). 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.

# Science (4 credits) AA and AS Degrees 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 and sociology. No more than three credits from any one field may apply toward the degree requirement.

# Wellness Education (2 credits)

See Wellness Education, page 27.

\* Some courses within fields marked with an asterisk (\*) may not satisfy the degree requirement. Please refer to the Courses Meeting General Education Requirements section on page 27.

### ASSOCIATE OF ARTS DEGREE

Fulfill all-college degree requirements.

Summary of AA Degree Requirements:

lits
3
3
6
6
9
3
6
4
6
2
-42
-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 of 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:

	Cre	dits
	American and Wyoming Government	3
	or United States from 1865	3
	or	5
*	US/Wyoming History combination	6
	English	6
	Humanities/Social Science/Visual and	
	Preforming Arts	6
	Mathematics	3
	Science	4
	Wellness Education	2
	TOTAL 24	1-27
Spe	cialization Core and Electives37	7-40
	hree credits may apply toward the Social So e requirement.	c <b>i</b> -
* Th	Wellness Education	<b>1-</b> 2

# 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
	or
•	US/Wyoming History combination 6
	English/Business Communication6
	Humanities/Social Science/Visual and
	Performing Arts/Science6
	Mathematics
	Wellness Education2
	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

### **HUMANITIES**

All English courses numbered 2000 or above. All foreign language courses of three (3) or more

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 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 (1/2 credit), NRST 1630 (1/2 credit).

### **MULTI-CULTURAL AWARENESS**

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)

BUSN 2000-Introduction to International Business (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 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

## SCIENCE

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

### SOCIAL SCIENCE

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

# 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 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)

```
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.\* Activitybased courses include the following:

PEAC courses

PEAT courses

OEAC courses

Dance courses\*\* with a physical education activity designator [PEAC] (one credit

OEPR 1100-Introduction to Adventure Education (one credit only)

OEPR 1250—River Studies (one credit only)

OEPR 1200—Winter Outdoor Survival

\* 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.

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 1141—Principles of Nutrition (3)

NRST 1660—Basic Emergency Care (3)

NRST 1990—Topics: (1-3)

PEPR 1040—Sport First Aid (2)

One of the following courses:

HLED 1270—Wellness (3)

HLED 1271—Diet and Exercise (2)

# 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

**PROGRAM** 

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:

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# NORTHWEST COLLEGE SKILLS CERTIFICATE

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\*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.

# 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 1

# 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**

V. Dooley, Chairperson D. Bruce, H. Elton, B. Horton, W. Johnson, B. Kolb, J. Kraft, R. Kruse, L. Satterlee, A. Sherwood, R. Violett,

C. White

# Staff

R. Boardman, M. Sherwood, R. Mettes

# Associate of Science Degree with specialization in

Accounting or Business Administration
Agriculture Business
Agroecology
Animal Science
Range Management

# Associate of Applied Science Degree

**Business** 

Business Technology – Administrative Assistant Business Technology – Network Technician Business Technology – Software Support Specialist

> Equine Business Management Equine Riding and Training Farm and Ranch Management Farrier Business Management Production Agriculture Welding Technology

# Northwest College Skills Certificate Option

Business Technology – General Office/ Clerical Skills Production Agriculture Welding Technology

# 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 prepaaration 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 Graduatio	n
Requirements on pages 25-28	24-27

#### **Core Courses**

Number and Title Credits
AGEC 1010—Agricultural Economics I 3
AGEC 2020—Farm/Ranch Business
Management4
AGRI 1010—Computers in Agriculture 3
or
BMIS 2000—Computer Information
Systems
ACCT 2010—Principles of Accounting I 4
or
ACCT 1050—Practical Accounting 3
TOTAL 13-14

### **Core Electives**

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

Number and Title Credits
ANSC 1022—Animal Science I 4
ANSC 1024—Animal Science II 4
CROP 2000—Plants, Agriculture,
Civilization4
AECL 1000—Agroecology4
AGEC 1020—Agricultural Economics II 3
AGEC 2010—Farm/Ranch Business
Records3
AGEC 2300—Agricultural Marketing 3
AGEC 2400—Farm Credit and Finance 2
AGEC 2100—Advanced Computerized
Agriculture Records Management 2
TOTAL7-12
General Electives selected in consultation

with advisor ......11-20
MINIMUM CREDITS FOR DEGREE = 64

# Agriculture 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 agriculture 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.

# 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.

Students who complete the Associate's degree in Agroecology may apply to the University of Wyoming for the Bachelor's degree in Agroecology. Interested students can continue at Northwest College to complete the third year requirements of the UW four-year program.

# ASSOCIATE OF SCIENCE with specialization in AGROECOLOGY

### **General Education Requirements**

Number and Title	Credits
Students should refer to the Graduation	on
Requirements on pages 25-28	24-27

# **Core Courses**

Number and Title	Credits
AECL 1000—Agroecology	4
AGEC 1010—Agricultural Economic	s I 3
SOIL 2100—Fundamentals of Soil	
Science	4
AGEC 2020—Farm/Ranch Business	
Management	4
T	OTAL 1

### **Core Electives**

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

Number and Title	Credits
CROP 2000—Plants, Agriculture,	
Civilization	4
ENTO 1001—Insect Biology	4
CROP 2200—Forage Crop Science	3

BMIS 2000—Computer Information	
or	
AGRI 1010—Computers in Agricu	lture 3
,	TOTAL 6-8
General Electives selected in consu	ltation
with advisor	14-19

# Animal Science

MINIMUM CREDITS FOR DEGREE = 64

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 Graduatio	n
Requirements on pages 25-28	24-27

### **Core Courses**

Number and Title	Credits
ANSC 1022—Animal Science I	4
ANSC 1024—Animal Science II	4
AGEC 1010—Agricultural Economics	s I 3
AGEC 2020—Farm/Ranch Business	
Management	4
TO	OTAL 15

### **Core Electives**

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

Number and Title	Credits
ANSC 1210—Livestock Judging I	2
ANSC 2020—Feeds and Feeding	4

ANSC 2430—Comparative Anatomy/	
Physiology of Domestic Animals	. 4
AGRI 1010—Computers in Agriculture	. 3
RGMG 2000—Principles of Range	
Management	. 3
FDSC 2060—Fresh Meat Processing	. 3
TOTAL :	5-8
General Electives selected in consultation with advisor	20
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	on
Requirements on pages 25-28	24-27

### **Core Courses**

Number and Title	Credits
AECL 1000—Agroecology	4
RGMG 1000—Introduction to Range	
Management	1
RGMG 2000—Principles of Range	
Management	3
SOIL 2100—Fundamentals of Soil Sci	ence 4
AGEC 2020—Farm/Ranch Business	
Management	4
TO	OTAL 16

### **Core Electives**

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

Number and Title	Credits
ANSC 1022—Animal Science I	4
ANSC 1024—Animal Science II	4

**Core Courses** 

AGEC 1010—Agricultural Economics 1	Number and Title Credits  ACCT 1050—Practical Accounting
with advisor	Management       4         AGRI 1010—Computers in Agriculture       3         AGEC 2300—Agricultural Marketing       3         BADM 2010—Business Law       3         BADM 2100—Small Business Practices       3
ASSOCIATE OF APPLIED SCIENCE PRODUCTION AGRICULTURE Designed for individuals desiring to return to Production Agriculture after the two-year sequence. Many courses will	MKT 1000—Sales       3         Animal Science Elective       3         Agroecology/Agronomy Elective       3         TOTAL 34         General Electives selected in consultation
meet transfer requirements.  General Education Requirements	with advisor7-10  MINIMUM CREDITS FOR DEGREE = 64
Number and Title Credits Students should refer to the Graduation Requirements on pages 25-2820-23	ASSOCIATE OF APPLIED SCIENCE FARRIER BUSINESS MANAGEMENT
Core Courses	General Education Requirements
Number and Title Credits  AGEC 1010—Agricultural Economics I 3  AGEC 2010—Farm-Ranch Business  Records	Number and Title Credits Students should refer to the Graduation Requirements on pages 25-28
Agroecology Electives	Number and Title         Credits           ACCT 1050—Practical Accounting
<b>Recommended Electives</b>	AGRI 1010—Computers in Agriculture 3 BADM 2100—Small Business Practices 3
Number and Title Credits Agriculture Electives selected in consultation with advisor from any courses with the following designators: AECL, AGEC, ANSC, CROP, FDSC, RGMG, SOIL	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
MINIMUM CREDITS FOR DEGREE = 64	EQST 1820—Production Shoeing II
ASSOCIATE OF APPLIED SCIENCE FARM AND RANCH MANAGEMENT	General Electives selected in consultation with advisor
General Education Requirements	MINIMUM CREDITS FOR DEGREE = 64
Number and Title Credits	

ENTO 1001—Insect Biology......4

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# NORTHWEST COLLEGE SKILLS CERTIFICATE PRODUCTION AGRICULTURE

Number and Title	Credits
AGEC 1010—Agricultural Economics	I 3
AGEC 2010—Farm-Ranch Business Re	ecords.3
AGEC 2300—Agricultural Marketing	3
AGEC 2020—Farm-Ranch Business	
Management	4
AGRI 1010—Computers in Agriculture	
Animal Science elective	4
Agroecology/Agronomy elective	3
(select from any courses with the fo	llowing
designators: AECL, CROP, RGMG	, SOIL)
BADM 1005—Business Mathematics of	or
equivalent	3
ENGL Freshman English	
or	
CO/M 1010—Public Speaking	3
Electives	3
TO	ΓAL 32

TOTAL CREDITS FOR CERTIFICATE = 32

# Business

The Business Department offers twoyear transfer programs for students seeking a baccalaureate degree in the areas of Accounting, Business Administration and Travel and Tourism. 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 twoyear program require prerequisites; please refer to the course descriptions section at the back of this catalog for this 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 basis 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 additional 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	Credit
Students should refer to the Graduation	n
Requirements on pages 25-28	24-2

## **Core Courses**

Number and Title Credits
BMIS 2000—Computer Information Systems . 3
ACCT 2010—Principles of Accounting I 4
ACCT 2020—Principles of Accounting II 4
STAT 2010—Statistical Concepts for
Business4
BADM 1020—Business Communication 3
or
BADM 2010—Business Law 3
BADM 1000—Introduction to Business 3 or
MKT 2100—Principles of Marketing 3 or
MGT 2100—Principles of Management 3
BADM 2395—Capstone in Business 1
TOTAL 22
Transfer and General Electives selected in
consultation with advisor 15-18

### **Recommended Transfer** and General Electives

Number and Title	Credits
ACCT 2040—Accounting for Decisio	n
Makers	3
ACCT 2410—Intermediate Accounting	ıg I 3
ACCT 2110—Microcomputer Accour	nting 2
BADM 2010—Business Law	3
or	
BADM 1020—Business Communicat	ion 3
CMAP 2900—Advanced Integrated C	Computer
Applications	3

CO/M 1010—Public Speaking	s
ECON 1010—Macroeconomics	3
ECON 1020—Microeconomics	3
ENGL 2010—Technical Writing	3
MATH 1050—Finite Mathematics	3
or	
MATH 2350—Business Calculus I	5
MGT 2100—Principles of Management	3
MKT 2100—Principles of Marketing	3
1	

MINIMUM CREDITS FOR DEGREE = 64

# Business

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 1020—Microeconomics
ENGL 1010—English I: Introduction to
Composition 3
POLS 1000—American and Wyoming
Government3
Wellness Education
TOTAL 20-21

## **Core Courses**

Number and Title	Credits
ACCT 2010—Principles of Accountin	g I 4
BADM 2010—Business Law	3
BADM 2030—Business Ethics	3
BMIS 2000—Computer Information	
Systems	3
FIN 2100—Managerial Finance	3
MGT 2100—Principles of Managemen	nt 3
MKT 2100—Principles of Marketing	3
BADM 2395—Capstone in Business	1
or	
MGT 2470—Internship: Management	3
1 0	L 23-25

Recommended Electives	
Number and Title Credits  General Electives selected in consultation with advisor, 12 of which must be business courses	
Track I — Accounting	
Number and Title Credits  ACCT 2020—Principles of Accounting II 4  ACCT 2040—Accounting for Decision  Makers	
Track II — e-Commerce	
Number and Title Credits BADM 1000—Introduction to Business 3 BADM 1045—e-Commerce for Managers 3 CMAP 1635—Programming I: 3 CMAP 2520—Telecomputing/Internet 3	
Track III — International Business	
Track III — International Business  Number and Title Credits BADM 1000—Introduction to Business 3	
Number and Title Credits	
Number and Title Credits BADM 1000—Introduction to Business 3	
Number and Title Credits BADM 1000—Introduction to Business 3 BUSN 2000—Introduction to International Business	
Number and Title Credits BADM 1000—Introduction to Business 3 BUSN 2000—Introduction to International Business	
Number and Title Credits  BADM 1000—Introduction to Business 3  BUSN 2000—Introduction to International  Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business 3  BUSN 2000—Introduction to International  Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	
Number and Title Credits  BADM 1000—Introduction to Business	

Number and Title

ACCT 2020-Principles of Accounting II .... 4 

#### Track VI — Travel and Tourism

Number and Title	Credits
ACCT 2040—Accounting for Decision	n
Makers	3
BADM 1050—Introduction to Travel	and
Tourism	3
BADM 1400—Introduction to Hospita	ality 3
MKT 1240—Consumer Behavior	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 Software Support 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 MOUS certification preparation.

# 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
Composition3
ENGL 2010—Technical Report Writing 3
POLS 1000—American and Wyoming
Government3
or
HIST 1221—The United States from 1865 3
Science/Social Science/Visual & Performing
Arts
Wellness Education
TOTAL 20-21

### **Core Courses**

Number and Title Cred	lits
BMIS 2000—Computer Information System	ns3
CMAP 1615—Operating Systems	3
CMAP 1635—Programming I:	3
CMAP 1920—Computer Hardware	
Maintenance	3
CMAP 2520—Telecomputing/Internet	3
CMAP 2970—Internship:	1-6
CSCO 2000—Internetworking I	5
CMAP 2889—Java Programming	3
or	
CMAP 2550—Visual Basic Programming	3

#### **Recommended Electives**

with advisor......Up to 7

Number and Title Credits
ACCT 2010—Principles of Accounting I 4
ACCT 2110—Microcomputer Accounting 2
BADM 2030—Business Ethics
BOTK 2950—Employment Orientation 1
CMAP 1715—Word Processing:
CMAP 1765—Spreadsheet Applications: 2
CMAP 1815—Database Applications: 2
CMAP 1850—Desktop Publishing I: 3
CMAP 2900—Advanced Integrated Computer
Applications
GRAR 1800—Introduction to Macintosh 3
JOUR 1020—Webcasting Practicum I 1-2
MGT 1000—Introduction to Supervision 3
PHTO 2650—Digital Imaging I
PHTO 2660—Web Page Design3
0 0

MINIMUM CREDITS FOR DEGREE = 64

## ASSOCIATE OF APPLIED SCIENCE SOFTWARE SUPPORT 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
ENGL 2010—Technical Report Writing 3
POLS 1000—American and Wyoming
Government3
or
HIST 1221—The United States from 1865 3
Science/Social Science/Visual & Performing
Arts
Wellness Education
TOTAL 20-21

### **Core Courses**

Number and Title	Credits
BMIS 2000—Computer Information	
Systems	3
CMAP 1615—Operating Systems	3
CMAP 1635—Programming I:	3
CMAP 1715—Word Processing:	2
CMAP 1765—Spreadsheet Application	ns: 2
CMAP 1815—Database Applications:	2
CMAP 1920—Computer Hardware	
Maintenance	3
CMAP 2520—Telecomputing/Interne	t 3

CMAP 2540-	-Software	Installat	ion/	
Troublesho	oting			2
CMAP 2970-	-Internshi	p:		1-6
CSCO 2000-	-Internetw	orking I		5
GRAR 1800-	-Introduct	tion to M	acintosh	3
BADM 2395-	-Capston	e in Busi	ness	1
		,	TOTAL 3	33-38
G 151	4 .		4	

# Recommended Electives

Number and Title	Credits
ACCT 2010—Principles of Accounting	g I 4
ACCT 2110—Microcomputer Account	ting 2
BADM 2030—Business Ethics	2
BIOL 2310—Introduction to Geograph	nic
Information Systems	3
BOTK 2950—Employment Orientation	n 1
CMAP 1715—Word Processing:	2
CMAP 1850—Desktop Publishing I:	3
CMAP 2900—Advanced Integrated Co	omputer
Applications	3
CSCO 2020—Internetworking II	5
FIN 2100—Managerial Finance	3
JOUR 1020—Webcasting Practicum I	1-2
MGT 1000—Introduction to Supervision	on 3
PHTO 2650—Digital Imaging I	3
PHTO 2660—Web Page Design	3

MINIMUM CREDITS FOR DEGREE = 64

## ASSOCIATE OF APPLIED SCIENCE ADMINISTRATIVE ASSISTANT OPTION

### **General Education Requirements**

Number and Title	Credits
BADM 1005—Business Mathematics	3
BADM 1020—Business Communicati	ions 3
CO/M 1010—Public Speaking	3
or	
CO/M 1030—Interpersonal Communi	cation. 3
ENGL 1010—English I: Introduction	to
Composition	3
POLS 1000—American and Wyoming	3
Government	3
or	
HIST 1221—The United States from 1	1865 3
Science/Social Science/Visual & Perfo	orming
Arts	3
Wellness Education	2
TO	TAL 20

### **Core Courses**

Number and Title	Credits
ACCT 1050—Practical Accounting	3
or	
ACCT 2010—Principles of Accounting	ıg I 4
ACCT 2110—Microcomputer Accour	ıting 2
BADM 1000—Introduction to Busine	ss 3
BMIS 2000—Computer Information	
Systems	3
BOTK 2750—Records and Information	n
Management	1

BOTK 2950—Employment Orientation 1
CMAP 1715—Word Processing:
CMAP 1765—Spreadsheet Applications: 2
CMAP 1815—Database Applications: 2
CMAP 1850—Desktop Publishing3
CMAP 2630—Presentation Graphics: 2
MGT 1000—Introduction to Supervision 3
BADM 2395—Capstone in Business 1
TOTAL 28-29

### 

### **Recommended Electives**

Number and Title	Credits
BADM 2010—Business Law	3
BADM 2100—Small Business Practic	es 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 Internati	ional
Business	3
CMAP 1680—Microcomputer Applica	ations:
	1-3
CMAP 1890-World Wide Web Auth	oring . 1
CMAP 1920—Computer Hardware	
Maintenance	3
CMAP 2900—Advanced Integrated C	omputer
Applications	3
GRAR 1800—Introduction to Macinto	sh 3

MINIMUM CREDITS FOR DEGREE = 64

## NORTHWEST COLLEGE SKILLS CERTIFICATE 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
BOTK 2750—Records and Information
Management1
BOTK 2950—Employment Orientation 1
CMAP 1715—Word Processing:
ENGL 1010—English I: Introduction to
Composition
Electives selected in consultation with advisor,

TOTAL 32-34

TOTAL CREDITS FOR CERTIFICATE = 32-34

# 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	n
Requirements on pages 25-28	20-23

### **Core Courses**

Number and Title	Credits
ANSC 2430—Comparative Anatomy	/
Physiology of Domestic Animals	4
BADM 2100—Small Business Practic	ces
(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 II1
EQST 1550—Equine Evaluation I2
EQST 1680—Horse Handling and Behavior 2
EQST 1805—Farrier Science I2
EQST 2520—Equine Breeding
EQST 2540—Applied Horse & Stall
Care III1
EQST 2545—Applied Horse & Stall
Care IV1
EQST 2680—Western/English
Horsemanship I
EQST 2690—Western/English
Horsemanship II
EQST 2810—Training & Development of
the Western Horse I3
or
EQST 2830—Training & Development of
the English Horse I
EQST 2820—Training & Development of
the Western Horse II
or
EQST 2840—Training & Development of
the English Horse II
TOTAL 40-41
General Electives selected in consultation
with advisor6
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	n
Requirements on pages 25-28	20-23

### **Core Courses**

Number and Title Credits
ACCT 2010—Principles of Accounting 4
AGEC 2010—Farm-Ranch Records
AGRI 1010—Computers in Agriculture 3
or
BMIS 2000—Computer Information
Systems
BADM 1000—Introduction to Business 3
BADM 2010—Business Law 3
BADM 2100—Small Business Practices 3
ECON 1020—Microeconomics
EQST 1520—Horse Production I 3
EQST 1525—Horse Production II
EQST 1550—Equine Evaluation I2
EQST 2520—Equine Breeding3
MKT 1000—Sales
MGT 2100—Principles of Marketing 3
MGT 2470—Internship: Management 3
TOTAL 42
General Electives selected in consultation

# 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 25) is an available option, in addition to a Northwest College skills certificate option.

# ASSOCIATE OF APPLIED SCIENCE WELDING TECHNOLOGY

### **Core Courses**

Number and Title	Credits
ENGL—Freshman Level English	3
BADM 1020—Business Communicati	on 3
MATH 1510—Technical Mathematics	I (or
equivalent)	3
POLS 1000—American and Wyoming	ŗ
Government	3
or	
HIST 1210—United States History I and	3
HIST 1250—History of Wyoming	3
WELD 1555—Welding Technology S	afety
and Problem Solving	2
WELD 1650—Print Reading	3
WELD 1705—Welding Processes	
WELD 1765—Advanced Welding Proc	esses 4
WELD 1800—Materials Evaluation	1-6
WELD 1860—Welding Fabrication	4
WELD 1870—Advanced Metal Fabric	cation
Techniques	4
WELD 2670—Welding Inspection	
Technology	
WELD 2680—Welding Metallurgy	
WELD 2700—Welding Certification (I	Plate) 4
WELD 2710—Welding Certification (F	
WELD 2750—Metals Production	
WELD 2995—Welding Workshop	
Wellness Education	
* General Education Requirements	
Electives	
TOTA	L 64-70

## TOTAL CREDITS FOR DEGREE = 64-70

## 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 Solving2
WELD 1705—Welding Processes 4
WELD 1650—Print Reading 3
WELD 1765—Advanced Welding Processes 4
WELD 1800—Materials Evaluation1-6
WELD 1860—Welding Fabrication 4
WELD 1870—Advanced Metal Fabrication
Techniques4
WELD 2750—Metals Production4
Elective3
TOTAL 32-37

TOTAL CREDITS FOR CERTIFICATE = 32-37

<sup>\*</sup> Students should refer to the Graduation Requirements on pages 25-28.

# 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: print 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

Communication
Journalism – Print
Journalism – Web/Broadcasting

# Associate of Science Degree with specialization in

Graphic Arts – Prepress Production Graphic Arts – Printing Management

# Associate of Applied Science Degree

Graphic Arts – Computer/Desktop Design Graphic Arts – Prepress Production Graphic Arts – Printing Production Photographic Communications

# Graphic Arts

The graphic arts options have been developed at Northwest College to provide students with broad career preparation in the related fields of prepress production, printing production, computer/ desktop design, and printing management. 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 science option is a transfer-oriented degree designed for students intending to continue at a four-year institution.

# ASSOCIATE OF SCIENCE with specialization in GRAPHIC ARTS PREPRESS PRODUCTION

This specialization allows students seeking an associate of science degree the opportunity to concentrate on prepress production for the field of graphic arts. 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 fouryear college catalog.

### **General Education Requirements**

Number and Title	Credits
Students should refer to the Graduatio	n
Requirements on pages 25-28	24-27

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

### **Core Courses**

Number and Title	Credits
GRAR 1510—Introduction to Graphic	;
Arts	3
GRAR 1610—Offset Production I	3
GRAR 1800—Introduction to Macinto	osh 3
Any capstone course with GRAR, CO.	/M,
PHTO, or ART designator	2-3
TOTA	L 11-12

#### **Core Electives**

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

Number and Title	Credits
ART 1110—Design 2-D	3
ART 2100—Computer Graphics I	3
GRAR 1620—Offset Production II	4
GRAR 1720—Imaging for Printing	
Reproduction	3
GRAR 1810—Electronic Publishing:	
PageMaker	3
GRAR 1820—Electronic Publishing:	
QuarkXPress	3
JOUR 1010—Publication Production	1-2
PHTO 1600—Survey of Photography	4
PHTO 1610—Introduction to Photogr	aphy 3
General Electives selected in consulta with advisor	

MINIMUM CREDITS FOR DEGREE = 64

# ASSOCIATE OF SCIENCE with specialization in GRAPHIC ARTS PRINTING MANAGEMENT

This specialization allows students seeking an associate of science degree the opportunity to concentrate on printing management in graphic arts. 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	n
Requirements on pages 25-28	24-27

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

### Core Courses

Number and Title	Credits
GRAR 1510—Introduction to Graphi	ic
Arts	3
GRAR 1610—Offset Production I	3
GRAR 2650—Estimating	3

Any capstone course with GRAR, CO/M,	2 2
PHTO, or ART designator	
TOTAL 11	1-12

### **Core Electives**

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

Number and Title	Credits
ART 2120 —Graphic Design I	3
BADM 1000—Introduction to Busines	ss 3
BADM 2100—Small Business Practic	es 3
GRAR 1620—Offset Production II	4
GRAR 1720—Imaging for Printing	
Reproduction	3
GRAR 1800—Introduction to Macinto	sh 3
GRAR 1810—Electronic Publishing:	
PageMaker	3
GRAR 1820—Electronic Publishing:	
QuarkXPress	3
GRAR 1850—Advanced Electronic	
Publishing	3
GRAR 1950—Preflighting/Image Asse	
MGT 2100—Principles of Managemen	nt 3
MGT 2470—Internship: Management	3
General Electives selected in consultat	ion
with advisor	16-20

### MINIMUM CREDITS FOR DEGREE = 64

### ASSOCIATE OF APPLIED SCIENCE GRAPHIC ARTS PREPRESS PRODUCTION OPTION

### **General Education Requirements**

Number and Title	Credits
Students should refer to the Graduation	
Requirements on pages 25-28	20-23

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

### **Core Courses**

Number and Title	Credits
ART 1110—Design: 2-D	3
ART 1130—Design: Color	
ART 2120—Graphic Design I	3
ART 2465—Art Portfolio	2
GRAR 1510—Introduction to Graphic A	Arts 3
GRAR 1610—Offset Production I	3
GRAR 1620—Offset Production II	4
GRAR 1720—Imaging for Printing	
Reproduction	3
GRAR 1800—Introduction to Macinto	osh 3
GRAR 1810—Electronic Publishing:	
PageMaker	3
GRAR 1820—Electronic Publishing:	
QuarkXPress	3
GRAR 1850—Advanced Electronic	
Publishing	3
GRAR 1950—Preflighting/Image Ass	embly. 3
PHTO 1610—Introduction to Photograp	ohy 4
TO	TAL 43

### **Recommended Electives**

Number and Title	Credits	
ART 2100—Computer Graphics I	3	
ART 2105—Computer Graphics II	3	
ART 2110—Typography	3	
ART 2130—Graphic Design II	3	
GRAR 2710—Estimating	3	
JOUR 1010—Publications Production	I 1-2	
Recommended Elective for English BADM 1020—Business Communication 3		
TOTAL CREDITS FOR DEGREE = 64		

### ASSOCIATE OF APPLIED SCIENCE GRAPHIC ARTS PRINTING PRODUCTION OPTION

### **General Education Requirements**

Number and Title	Credits
Students should refer to the Graduation	
Requirements on pages 25-28	20-23

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

### **Core Courses**

Number and Title	Credits
ART 1110—Design: 2-D	3
ART 1130—Design: Color	3
ART 2120—Graphic Design I	3
ART 2465—Art Portfolio	
GRAR 1510—Introduction to Graphic A	Arts 3
GRAR 1610—Offset Production I	3
GRAR 1620-Offset Production II	4
GRAR 1720—Imaging for Printing	
Reproduction	3
GRAR 1800—Introduction to Macinto	
GRAR 1810—Electronic Publishing	
PageMaker	3
GRAR 1820—Electronic Publishing	
QuarkXPress	3
GRAR 1950—Preflighting/Image Ass	
GRAR 2710—Estimating	
GRAR 2810—Advanced Press	
PHTO 1610—Introduction to Photograp	
C 1	TAL 46

### **Recommended Electives**

Number and Title	Credits
ART 2100—Computer Graphics I	3
ART 2130—Graphic Design II	3
GRAR 1850—Advanced Electronic	
Publishing	3
JOUR 1010—Publications Production	I 1-2

TOTAL CREDITS FOR DEGREE = 64

### ASSOCIATE OF APPLIED SCIENCE GRAPHIC ARTS COMPUTER/DESKTOP DESIGN OPTION

### **General Education Requirements**

Number and Title	Credits
Students should refer to the Graduation	
Requirements on pages 25-28	20-23

Three hours of Humanities/Social Science/Visual & Performing Arts/Science may be fulfilled by taking 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 2110—Typography	
ART 2120—Graphic Design I	3
ART 2465—Art Portfolio	
GRAR 1510—Introduction to Graphic	Arts 3
GRAR 1610—Offset Production I	
GRAR 1720—Imaging for Printing	
Reproduction	3
GRAR 1800—Introduction to Macinto	osh 3
GRAR 1810—Electronic Publishing:	
PageMaker	3
GRAR 1820—Electronic Publishing:	
QuarkXPress	3
GRAR 1850—Advanced Electronic	
Publishing	3
PHTO 1610—Introduction to Photograp	
TO	TAL 42

### **Recommended Electives**

Number and Title	Credits
ART 2105—Computer Graphics II	3
ENTK 2500—Computer Aided Draftin	ng I 3
JOUR 1010—Publications Production	I 1-2

TOTAL CREDITS FOR DEGREE = 64

### Journalism

The journalism area at Northwest College offers the basic introductory courses for transfer purposes. Students who are interested in seeking employment from this program are encouraged to pursue courses in photography, printing, and commercial art through the A.A.S. degree programs found in the Communication Division.

### 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	n
Requirements on pages 25-28	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 and Layout 3	
CO/M 2485—Sophomore Seminar:	
Communication2	
TOTAL 16-18	,
General Electives selected in consultation with advisor	
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	ı
Requirements on pages 25-28	36-42

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

### **Core Courses**

Number and Title Cre	edits
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	П 3
JOUR 2020—Webcasting Practicum II	1-2
JOUR 2000—Broadcast Production	3
CO/M 2485—Sophomore Seminar:	
Communication	2
TOTAL 1	16-18
General Electives selected in consultation with advisor	4-12

MINIMUM CREDITS FOR DEGREE = 64

## **Photographic** Communications

The photographic communications program is designed for those students who intend to become commercial photographers. Emphasis is placed on learning through extended lab experiences.

Photographic communications students should understand their profession and the changes students will encounter as they mature in the field of photography. Students must understand the photography profession so that their ideas can be expressed creatively, clearly, and on demand.

The photographic communications faculty are professionals. To this end, the faculty keep abreast and are aware of the trends in this ever-changing profession, especially toward digital imaging.

We advise students to take courses in journalism and in business in order to provide a framework in which to explore the challenging issues of this career. 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
BADM 1005—Business Mathematics
or
MATH—Any College-Level Mathematics 3-4
BADM 1020—Business Communications 3
JOUR 1000—Introduction to Mass Media 3
or
CO/M 1030—Interpersonal Communication. 3
ENGL 1010—English I: Introduction to
Composition3
ART—Any ART course meeting the Visual &
Performing Arts requirement
POLS 1000—American and Wyoming
Government3
or
HIST 1210—United States History I
and
HIST 1250—History of Wyoming 3
Wellness Education
TOTAL 20-24

### **Core Courses**

Number and Title	Credit
PHTO 1600—Survey of Photogra	phy
PHTO 1610—Introduction to Pho	tography
PHTO 1630—View Camera/Bas	sic Lighting .
PHTO 2710—Professional Portf	olio I
PHTO 2720—Professional Portf	olio II
PHTO 2350—Media Photograph	ıy
PHTO 2510—Studio Illustration	I
PHTO 2520—Studio Illustration I	I
PHTO 2740—Color Negative Ph	notography:
PHTO 2610—Commercial Portr	ait I
PHTO 2620—Commercial Portr	ait II
PHTO 2650—Digital Imaging I	
PHTO 2660—Web Page Design	
PHTO 2760—Introduction to Di	gital
Multimedia	-
	TOTAL 4

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
GRAR 1820—Electronic Publishing:
QuarkXPress
JOUR 1100—Reporting and Newswriting I 3
PHTO 1550—Outdoor Photography
Seminar2
PHTO 1980—Cooperative Education 1-6
PHTO 2450—Media Photography II
PHTO 2980—Cooperative Education 1-6

TOTAL CREDITS FOR DEGREE = 66

### 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 Graduatio	n
Requirements on pages 25-28	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 Communi	cation3
CO/M 2485—Sophomore Seminar:	
Communication	2
7	TOTAL 8

### **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
Communication3
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 1100—Critical Thinking 3
THEA 2120—Oral Interpretation
_
General Electives in consultation with
advisor12-18

MINIMUM CREDITS FOR DEGREE = 64

## Faculty

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

Humanities programs at Northwest College emphasize the development of critical thinking skills. They are transfer oriented and are designed to parallel the general requirements of colleges of arts and sciences at typical four-year institutions. 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. After completing these twoyear programs at Northwest, students who transfer to four-year institutions are better prepared to concentrate fully on their major areas of study.

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 parttime basis.

# Associate of Arts Degree with specialization in

Humanities (includes English, Foreign Languages, and Philosophy)

Humanities

A two-year specialization in humanities at Northwest College allows a student to explore a variety of disciplines. Students who choose to pursue this specialization will be ready to declare a major from such fields as English, American Studies, pre-law, philosophy, or foreign languages when they transfer.

Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to four-year programs may need to have additional hours beyond the specialization requirements at

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

ASSOCIATE OF ARTS
LIBERAL STUDIES
with specialization in
HUMANITIES
(includes English, Foreign Languages, and Philosophy)

### **General Education Requirements**

Number and Title	Credits
Students should refer to the Graduatio	n
Requirements on pages 25-28	24

Three hours of Capstone, eight hours of Foreign Language, three hours of Government, six hours of Humanities, and three hours of Multi-Cultural Awareness general education requirements will be fulfilled by taking Core Courses.

### Core Courses

lumber and Title Credits	
HUMN 2440—Dialogues in the Humanities	
(capstone)	
Foreign Language (2 semesters of the same	
language)8	
HIST 1221—The United States from 1865 3	
Humanities (to be chosen from ENGL,	
HUMN, PHIL, or additional Foreign	
Language courses)6	
Multi-Cultural Awareness (to be chosen from	
ENGL 2170, ENGL 2210, ENGL 2220,	
ENGL 2230, ENGL 2280, HUMN 2420,	
HUMN 2445, HUMN 2460, PHIL 2311) 3	
TOTAL 23	

### **Core Electives**

Number and Title Credits
Core Electives depend upon disciplinary
emphasis. Selected in consultation with
advisor from any courses with the following
designators: ENGL, FREN, HUMN, PHIL,
and/or SPAN6
General Electives selected in consultation with advisor

## English

MINIMUM CREDITS FOR DEGREE = 64

The English program at Northwest includes courses in writing, literature, and language. Students who focus their studies in English may explore specialized areas such as Shakespeare, Mythology, the Bible as Literature, Introduction to Language, or selected Literary Genres.

Topics courses or workshops investigate focused themes within a professor's field of expertise. Students may also prepare for an undergraduate major in English with surveys of British and United States literature.

Composition skills are emphasized in all courses that fulfill the Freshman English requirement. These include Introduction to Composition, Introduction to Literature, Research Writing, Technical Writing, and Critical Reading and Writing. Students may expand their writing skills in a series of creative writing courses (prose and poetry) and may participate in a Writers' Theme House living experience.

Courses taught within the English department are introductory in nature and are open to all students regardless of their degree specialization.

## **English Education**

Students who plan to teach at the secondary level should complete coursework both in the Humanities (concentrating in English) and the Secondary Education specialization. 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.

## Foreign Languages

The Foreign Language department offers those courses necessary to satisfy the foreign language requirement for the bachelor's degree at most four-year institutions. Northwest College's language instruction includes courses in French, Greek, Hebrew, and Spanish. The range of offerings in French and Spanish also allows students to prepare for transfer as majors in either language. Field study/ travel programs in places such as France, Costa Rica, and Mexico extend student immersion in language and culture. Credit may be given to students with previous foreign language experience.

# Foreign Language Education

Students who plan to teach at the secondary level should complete coursework 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 closely 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.

Interdisciplinary
Studies in the
Humanities

The Humanities Division at Northwest regularly offers an array of lively courses that combine the perspectives of multiple academic disciplines. Individual courses are popular with students in many departments, but a specialized program in the Humanities or in General Studies can incorporate several of these interdisciplinary experiences. HUMN courses include cultural studies (Film, Folklore, Popular Culture, Cross-Cultural Studies), field study/travel (locations such as Ireland, Great Britain, and Hawaii), and topics courses on focused themes (such as American country music, television and American culture, etc.)

The Division is developing interdisciplinary Museum Studies courses which allow students to explore aspects of careers in museum work while concentrating in subject areas such as history, the arts, or the natural sciences.

## 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 prelaw choice) at four-year institutions.

## **Faculty**

Floyd Young, Chairperson J. Campbell, Connie Crawford, S. Feyhl, S. Harbron, R. Hitchcock, E. Kimble, M. Ohman, S. Pollart, K. Rochlitz, J. Voege, G. Wallace, T. Webb, D. Woodruff, 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 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:

Outdoor Education Physical Education

# Nursing Department specialization in:

Pre-Baccalaureate Nursing

# Associate of Applied Science Degree

Nursing

### Northwest College Skills Certificate Option

Practical 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 fouryear 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 Graduatio	n
Requirements on pages 25-28	24-27

Four hours of Science are fulfilled by taking Core Courses

Core Courses	
Number and Title Credits BIOL 1010—General Biology I	
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         4           BOT 2050—Taxonomy of Flowering         4           Plants         4           MOLB 2210—General Microbiology         4           ZOO 2400—Vertebrate Natural History         4           TOTAL 20-21	
Transfer and General Electives selected in consultation with advisor16-20	
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	
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	

# Recommended General Electives for either Track

PHYS 1110—General Physics I ...... 4

STAT 2005-Fundamentals of Statistics ..... 3

Number and Title	Credits
CO/M 1010 Public Speaking	3
ENGL 2017 Introduction to Research	3
PHIL 1100 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 Natuural 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	n
Requirements on pages 25-28	24-27

Four 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 2400—Ecology	3
BIOL 2410—Field Ecology Lab	1
BIOL 2395—Biological Research: A	
Capstone Experience	1
BIOL 2310—Introduction to Geograp	hic
Information Systems	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 Flowing Pla	ants 4
BOT 2100—Forest Management	3
ZOO 2400—Vertebrate Natural Histo	ry 4
ZOO 2450-Wildlife Management	3
TOTA	AL 23-24
Transfer and General Electives selected	ed in
consultation with advisor	13-17

# 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	4
CHEM 1030—General Chemistry II	4
CHEM 2320—Organic Chemistry I	4
CHEM 2340—Organic Chemistry II	4
MATH 1450—Precalculus Algebra ar	nd
Trigonometry	5
MATH 2350—Business Calculus I	5
PHYS 1110—General Physics I	4
PHYS 1120—General Physics II	4
STAT 2005—Fundamentals of Statist	ics 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 Chemis	stry 5
CHEM 2300—Introduction to Organic	e
Chemistry	4
MATH 1400—College Algebra	4
PHYS 1110—General Physics I	4
STAT 2005—Fundamentals of Statist	ics 3

### **General Electives for either Track**

CO/M 1010 Public Speaking	3
PHIL 1100 Critical Thinking	3
POLS 2410 Introduction to Public	
Administration	3
RGMG 2000 Principles of Range	
Management	3
SOIL 2100 Fundamentals of Soil Science	3

MINIMUM CREDITS FOR DEGREE = 64

# Occupational Therapy and Physical Therapy

The courses required for these specializations parallel those found at fouryear 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	on
Requirements on pages 25-28	24-27

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

### Core Courses

Number and Title Credits
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
BIOL 1010—General Biology I4
ZOO 2010—Human Anatomy and
Physiology I4
ZOO 2020—Human Anatomy and
Physiology II4
CHEM 1000—Introduction to Chemistry
or
CHEM 1020—General Chemistry I4-5
PSYC 1000—General Psychology
or
SOC 1000—Sociological Principles 3-4
BIOL 2395—Biological Research: A
Capstone Experience 1
TOTAL 20-2
Transfer and General Electives selected in

# Recommended Transfer and General Electives

consultation with advisor ...... 16-20

Number and Title	Credits
CO/M 1010—Public Speaking	3
ENGL 2017—Introduction to Resear	ch 3
MATH 1400—College Algebra	4
NRST 1200—Medical Terminology	1
STAT 2005—Fundamentals of Statis	stics 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 Graduatio	n
Requirements on pages 25-28	24-27

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: A	
Capstone Experience	1
TO	OTAL 21
Transfer and General Electives selected	ed in

# Recommended Transfer and General Electives

consultation with advisor ......16-19

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

### Frack 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	4
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 2005—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 2005—Fundamentals of Statistics	3

# Recommended General Electives for either Track

COAL	1010	Dublic	Cnaalring	
CO/IVI	1010-	-rublic	Speaking	

ENGL 2017—Introduction to Research 3
PHIL 1100—Critical Thinking
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 Gradua	ation
Requirements on pages 25-28	24-27

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
ZOO 2010—Anatomy and Physiology	I 4
ZOO 2020—Anatomy and Physiology	II 4
CHEM 1020—General Chemistry I	5
or	
CHEM 1000—Introduction to Chemis	stry 4
BIOL 2395—Biological Research: A	
Capstone Experience	1
	AL 21-22
Transfer and General Electives selecte consultation with advisor	

### **Transfer and General Electives**

Number and Title	Credits
CHEM 1030—General Chemistry II	4
CHEM 2300—Introduction to Organic	С
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	h 3

MATH 1450—Precalculus Algebra and	
Trigonometry	5
MATH 2350—Business Calculus I	5
STAT 2005—Fundamentals of Statistic	s 3
PHIL 1100—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	1
Requirements on pages 25-28	24-27

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
CHEM 1020—General Chemistry I	4
CHEM 1030—General Chemistry II.	4
BIOL 2395—Biological Research: A	
Capstone Experience	1
Te	OTAL 21

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

### **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	h 3
MATH 1450—Precalculus Algebra an	ıd
Trigonometry	5

MATH 2350—Business Calculus I	5
PHIL 1100—Critical Thinking	3
PHYS 1110—General Physics I	4
STAT 2005—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	n
Requirements on pages 25-28	24-27

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	4
CHEM 1030—General Chemistry II	4
BIOL 2395—Biological Research: A	
Capstone Experience	1
	OTAL 17
Transfer and General Electives selected	ed in
consultation with advisor	16-19

### **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	h 3

MATH 1450—Precalculus Algebra and	
Trigonometry	5
MATH 2350—Business Calculus I	5
MOLB 2210—General Microbiology	4
PHIL 1100—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

### **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 Gradua	tion
Requirements on pages 25-28	24-27

Two hours of Wellness are fulfilled by taking Core Courses.

### Core Courses

Number and Title OEPR 1100—Introduction to Advent.	Credits
Education	2
OEPR 1700—Winter Outdoor Surviva	al 1
EDFD 2020—Foundations of Education	on 3
OEPR 1750—River Studies	2
HLED 1225—Standard First Aid and C	CPR 2
HLED 1270—Wellness	3
OEPR 2100—Outdoor Education	
Capstone	2-4
TOTA	AL 15-17

### Core Electives

Number and Title Credits	5
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 1	
OEAC 1150—Outdoor Living Skills:	
Mountain 1	
PEAC 1015—Beginning Scuba1	
PEAC 1258—Beginning Skiing5	
PEAC 1259—Beginning Cross Country	
Skiing5	
PEAC 1281—Beginning Casting and	
Angling	
PEAC 1285—Beginning Kayaking5	
PEAC 1286—Spelunking5	
PEAC 1287—Beginning Rock Climbing5	
PEAC 1288—Beginning Bicycle Touring5	
TOTAL 2.5-8	
Transfer and General Electives selected in	
consultation with advisor17-23	

### **Transfer and General Electives**

Number and Title	Credits
ANTH 1100—Physical Anthropology	3
ANTH 1105—Physical Anthropology	Lab 1
ANTH 1300—Introduction to Archaeo	ology3
ASTR 1050—Survey of Astronomy	4
BIOL 1080—Environmental Science.	3
BIOL 2400—Ecology	3
BIOL 2410—Field Ecology Lab	1
BIOL 2420—Studies in Rocky Mount	ain
Ecology	4
BOT 2050—Taxonomy of Flowering	
Plants	4
EDFD 2100—Educational Psychology	<i></i> 3
FSCS 1141—Principles of Nutrition	3
GEOL 1030—Geology of Northern	
Wyoming	3
GEOL 1035—Geology of Yellowston	e
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	n
Requirements on pages 25-28	24-27

Four hours of Science and two hours of Wellness are fulfilled by taking Core Courses.

### **Core Courses**

Number and Title	Credits
ZOO 2010—Human Anatomy and	
Physiology I	4
ZOO 2020—Human Anatomy and	
Physiology II	4
PEPR 1005—Introduction to Physical	
Education	2
PEPR 2069—History and Philosophy	of
Sport	3
PEPR 1025—Movement Core II	
PEPR 2000-Movement Core III	2
HLED 1006—Personal and Communi	ty
Health	3
HLED 1225-First Aid and CPR	2
or	
* PEPR 1040—Sport First Aid	2
PEPR 2200—Physical Education, Hea	alth and
Coaching Practicum (minimum of	two
credits)	2-4
	AL 24-26

\* Students interested in coaching are strongly encouraged to take Sport First Aid

Transfer and General Electives selected in

consultation with advisor ......13-16

### Transfer and General Electives for a Teacher Education Program in Physical Education

Number and Title	Credits
EDFD 2100—Educational Psychology	y 3
EDFD 2020—Foundations of Educati	on 3
* EDUC 2100—Public School Practicu	m 3-6
PEPR 2012—Physical Education for	
Elementary School	3
PSYC 1000—General Psychology	4
OEPR 2450—Introduction to Advent	ure
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 1052—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 1052—Care and Prevention of	Athletic
Injuries/Illness	2
PSYC 1000—General Psychology	4
PSYC 2200—Human Sexuality	3
·	

MINIMUM CREDITS FOR DEGREE = 64

# Associate of Science Pre-Baccalaureate Nursing

The following two-year pre-nursing program closely resembles that required by BSN schools of nursing. However, we strongly encourage you to talk to the college or university you plan to transfer to before selecting course work.

### ASSOCIATE OF SCIENCE with specialization in PRE-BACCALAUREATE NURSING

Freshman Year
Fall Semester Credits
ENGL 1010—English I: Introduction to
Composition3
or
ENGL 1110—Advanced English
Composition3
MATH 1400—College Algebra4
or STAT 2005—Fundamentals of Statistics 3 SOC 1000—Sociological Principles 3 or ANTH 1200—Introduction to Cultural
Anthropology
ZOO 2010—Human Anatomy and
Physiology I
Wellness Education 1
Electives
TOTAL 17-19
Spring Semester Credits
ENGL 1020—English II: Introduction to
Literature3
PHIL 1100—Critical Thinking
PSYC 1000—General Psychology 4
ZOO 2020—Human Anatomy and
Physiology II4
Wellness Education
TOTAL 15
Sophomore Year
Fall Semester Credits
CHEM 1000—Introduction to Chemistry 5 or
CHEM 1020—General Chemistry I 4
CO/M 1030—Interpersonal Communication. 3
HOEC 1141—Principles of Nutrition 3
PSYC 1200—Human Development 3
Elective3
TOTAL 16-17
Spring Semester Credits
MOLB 2210—General Microbiology 4
PHCY 4450—Pathophysiology 4
PHCY 4450—Pathophysiology
(teleconference course with U.W.) POLS 1000—American and Wyoming
(teleconference course with U.W.) POLS 1000—American and Wyoming Government
(teleconference course with U.W.) POLS 1000—American and Wyoming Government
(teleconference course with U.W.) POLS 1000—American and Wyoming Government
(teleconference course with U.W.) POLS 1000—American and Wyoming Government
(teleconference course with U.W.) POLS 1000—American and Wyoming Government

MINIMUM CREDITS FOR DEGREE = 65-67

### ASSOCIATE OF APPLIED SCIENCE NURSING; PRACTICAL NURSING CERTIFICATE

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 Accreditation Commission. (NLNAC, 61 Broadway 33rd Floor, New York, NY, 10006, 800-669-1656, ext. 153, FAX 212-812-0390.) The program is an associate degree nursing program with a practical nursing spin-off option. 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.

Those students who do not want to complete the associate degree nursing program, but want to become practical nurses, may "spin-off" after the first nine months of the program. They will be required to complete a nine-week summer semester. Following successful completion of the summer semester, they will be eligible to take the National Council Licensure Examination for Practical Nursing. The practical nursing program at Northwest College is also accredited by the National League for Nursing Accreditation Commission.

The program is open to all individuals interested in a career in nursing. Classroom 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 complete 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.
- Evidence of high school graduation or certificate of GED.
- 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 Level 1 (eligible to take ENGL 1010).
- Reading Placement Score 70 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 50 or above.

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.

Licensed practical nurses may be eligible for Advanced Placement into the second year of the nursing program, based on space availability. Criteria for advanced placement are:

- Completion of a standard Northwest College application.
- Completion of an Advanced Placement nursing program Letter of Intent.
- Cumulative GPA of 2.5 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 (4 credits within the last 5 years). General Psychology (4 credits). Nutrition (2 credits).

Human Pathophysiology (3 credits).

- Placement at math level 2 (eligible to take MATH 0930). Course or placement testing within the last five years.
- English Placement at Level 1 (eligible to take ENGL 1010).
- Reading Placement Score of 70 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.

# ASSOCIATE OF APPLIED SCIENCE NURSING; PRACTICAL NURSING

### Freshman Year Fall Semester Credits NRST 1610—Nursing I ...... 10 PSYC 1000—General Psychology ...... 4 ZOO 2010—Human Anatomy and Physiology I ..... TOTAL 18 Spring Semester NRST 1620—Nursing II ...... 10 ZOO 2020—Human Anatomy and Physiology II ......4 ZOO 2060—Human Pathophysiology........... 3 TOTAL 20 PN Spin-Off Summer Semester Credits (Practical Nursing Component) NRST 1980-Practical Nursing Role Exploration..... **TOTAL 5** TOTAL CREDITS PN = 43 NURSING = 22NON-NURSING = 21 Summer Semester Credits (Only for Licensed Practical Nurses Applying for Advanced Placement) NRST 2500—LPN Transition ...... 1 Sophomore Year **Fall Semester** Credits ENGL 1010—English I: Introduction to Composition ..... MOLB 2210—General Microbiology I ....... 4 NRST 2630—Nursing III...... 10 **TOTAL 17 Spring Semester** Credits ENGL 2030—Critical Reading and Writing . 3 POLS 1000—American and Wyoming Government......3 HIST 1221—The United States from 1865 ... 3 and NRST 2640—Nursing IV ...... 10

<sup>\*</sup> Required science course work 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).

## Faculty

D. Barkan, Chairperson A. Childs, J. Enger, K. Keppen, R. Krenz, L. Lord, A. Northrup, D. Skinner, N. Waite, N. Walker, F. Watkins, B. Watne, 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 the 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
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. 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 fouryear 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 Graduatio	n
Requirements on pages 25-28	24-27

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	4
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
CHEM 2540—Chemistry Capstone	
Seminar	1
TO	OTAL 27

Transfer and General Electives selected in

consultation with advisor ...... 17-20

### **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	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

## 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 Appliced 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 drafting. 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 25-2	28 24-27

### **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 I	I 3
ENTK 1800—Cartography	3
ENTK 2500—Computer Aided Drafti	ng I 3
ENTK 2505—Computer Aided Drafti	ng II 3
ENTK 2510—Computer Aided Draftin	ıg III 3
ENTK 2530—Computer Aided Draftin	g 3-D.3
TO	TAL 27
Transfer and General Electives selecte	d in
consultation with advisor	13-16

### **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
ART 1120—Design: 3-D
BMIS 2000—Computer Information
Systems
BOTK 2950—Employment Orientation 1
CMAP 1610—Windows I 1
CMAP 1650—Local Area Networks I 3
CMAP 2900—Advanced Integrated Computer
Applications
ENGL 2010—Technical Writing
ENTK 1750—Commercial Architectural
Drawing
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
Composition3
or
ENGL 1110—Advanced English
Composition3
BADM 1020—Business Communication 3
MATH 1405—Precalculus Trigonometry 3
or
MATH 1450—Precalculus Algebra and
Trigonometry5
POLS 1000—American and Wyoming
Government3
or
HIST 1210—United States History I
and
HIST 1250—History of Wyoming 3
Humanities/Soc Sci/V & P Arts6
Wellness Education
TOTAL 20-23

### **Core Courses**

Number and Title Credits
BOTK 2950—Employment Orientation 1
CMAP 1500—Computer Keyboarding 1
ENTK 1510—Drafting I
ENTK 1520—Drafting II
ENTK 1710—Architectural Drafting I 3
ENTK 1720—Architectural Drafting II 3
ENTK 1750—Commercial Architectural
Drafting 3
ENTK 1800—Cartography I3
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
TOTAL 32

### Electives \*

Number and Title	Credits
ACCT 1050—Practical Accounting	3
AGTK 1530—Principles of Technolog	gy I 3
AGTK 1540—Principles of Technolog	y II 3
ART 1110—Design: 2-D	3
ART 1120—Design: 3-D	3
ART 2120—Graphic Design I	3
GRAR 1810—Electronic Publishing I	3
PHTO 1610—Introduction to Photograp	hy 3
PHYS 1050—Concepts of Physics	4

TOTAL CREDITS FOR DEGREE = 67-70

\* 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 fouryear 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	n
Requirements on pages 25-28	24-27

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)	3
TO	OTAL 25

Transfer and General Electives selected in consultation with advisor .......15-18

### **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	4
CHEM 1030—General Chemistry II.	4
ENGL 2010—Technical Writing	
ENTK 1510—Drafting I	3
ENTK 2070—Engineering Surveying	3
ENTK 2500—Computer Aided Drafti	ing I 3
ENTK 2505—Computer Aided Drafti	ing II 3
ENTK 2510—Computer Aided Draftin	ng III 3
ES 1060—Introduction to Engineering	g
Computing	3
ES 2210—Electric Circuit Theory	4
ES 2310—Thermodynamics	4
ES 2330—Fluid Dynamics/Mechanic	s 3
ES 2410—Mechanics of Materials	3
PHYS 1310—College Physics I	4
PHYS 1320—College Physics II	4

## Geology

Northwest offers several courses on 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.

### **Mathematics**

Mathematics courses are designed to meet the needs of students in all departments of the college: students who plan to teach mathematics, and 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 fouryear 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

For secondary 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	n
Requirements on pages 25-28	24-27

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 Trigonome	etry 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	3
TOT	AL 15-18

## **Physics**

Physics concerns itself with the construction of theories describing the entire universe in terms of fundamental laws and fundamental 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 foun-

dations 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 Gradua	ition
Requirements on pages 25-28	24-27

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	3
PHYS 1310—College Physics I	4
PHYS 1320—College Physics II	4
To	OTAL 25

### **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 4 CHEM 1030—General Chemistry II 4 ES 1060—Introduction to Engineering Computing. 3 ES 2110—Statics 3 ES 2120—Dynamics 3 ES 2210—Electric Circuit Theory. 4 ES 2310—Thermodynamics 4

## **Faculty**

G. Sturmer, Chairperson M. A. Atwood Wurzel, D. Brophy, D. Erickson, J. Johnston, 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

Early Childhood Education Elementary Education Secondary Education

## 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. For the value of anthropology in international business, see International Business Track page 32.

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	1
Requirements on pages 25-28	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	1
Anthropology	3
ANTH 1300—Introduction to Archaeo	ology3
ANTH 2200—World Ethnography	3
ANTH 2210—North American Indian	
Cultures	3
Capstone Course (in consultation with	
advisor)	1-3
TOTA	L 13-15

### **Core Electives**

Students must complete six credits from the following list of approved courses.

Number and Title	Credits
ANTH 1100—Physical Anthr	
•	1 0.
ANTH 1105—Lab (optional).	1
ANTH 2310—Archaeological	
Methods	1-6
ANTH 2350—Biblical Archae	eology 3
ANTH 2470—Internship: Ant	hropology1-6
	TOTAL 6
General Electives selected in o	
with advisor	13-19

MINIMUM CREDITS FOR DEGREE = 64

### **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 fouryear colleges. The catalog of the four-year transfer college must be consulted by the student when selecting courses. The following programs are suggestions only.

## **Elementary Education**

This specialization allows students to develop skills in elementary education for their associate of arts degree from Northwest College. Students completing the specialization can readily use it for transfer to a four-year institution with an approved teacher education program or as a terminal degree which would qualify them to obtain a substitute teaching certificate in the state of Wyoming. 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 ELEMENTARY EDUCATION

### **General Education Requirements**

Number and Title	Credits
Students should refer to the Graduatic	on
Requirements on pages 25-28	
36-42 (AA	A degree)
24-27 (AS	S degree)

Two hours of Wellness, three hours of Social Science, and three hours of MATH may be fulfilled by taking Core Courses.

### **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)	
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 Macinto	sh (or
equivalent skills)	3
EDEX 2320—Introduction to Teachin	g
Special Learners	3
HLED 1225—Standard First Aid & Cl	PR 2
LIBS 2280—Literature for Children	3
MATH 1100—Theory of Arithmetic I	3
MATH 1105—Theory of Arithmetic I	I 3

PEPR 2012—Physical Education for
Elementary Teachers
PSYC 1200—Human Development 3
TOTAL 9

# 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 others 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 C	Graduation
Requirements on pages 25-28	8
3	6-42 (AA degree)
2	24-27 (AS degree)

Three hours of Humanities and three hours of Social Science may be fulfilled by taking Core Courses.

### **Core Courses**

All the Core Courses meet outcome standards for Wyoming Teacher Certification in Early Childhood Education.

Number and Title	Credits
EDEC 1020—Introduction to Childho	od
Education	3

TOTAL 1	0
3-5 credits (minimum 3 required)	3
EDCI 2200—Early Childhood Practicum	
FCSC 2121—Child Development	4

### **Core Electives**

Students must complete nine credits from the following list of approved courses.

Number and Title	Credits
CO/M 2125—Family Communication	3
EDEC 2020—Child Guidance	3
EDEC 2485—Seminar: Operating Ear	·ly
Childhood Programs	3
FCSC 1141—Principles of Nutrition	3
LIBS 2280—Literature for Children	3
PSYC 2300—Child Psychology	3
Т	OTAL 9
General electives selected in consultat advisor (these are not part of the	ion with
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 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.

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 colleges 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 secondary 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, 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 Graduatic	n
Requirements on pages 25-28	
36-42 (AA	A degree)
24-27 (AS	S degree)

Four hours of Social Science may be fulfilled by taking Core Courses.

### **Core Courses**

Number and Title	Credits
EDFD 2020—Foundations of Education	on 3
EDFD 2100—Educational Psychology	<i>7</i> 3
EDUC 2100—Public School Practicur	n:
Observation and Participation (3-6 cre	dit, 3
credit minimum required)	3-6
PSYC 1000—General Psychology	4
TOTA	AL 10-13

### **Core Electives**

Students must take one of the following courses.

Number and Title	Credits
EDEX 2320—Introduction to Teach	ing
Special Learners	3
PSYC 1200—Human Development	3
General electives selected in consult	ation 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 history middle school or high school 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 25-28	36-42

Three hours of Humanities and three hours of Social Science will be fulfilled by taking Core

### 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	53
SOSC 2485—Seminar in Social Scien	ce
Research or other Capstone Course	(in
consultation with advisor)	3
TO	TAL 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 St	ates
West	3
HIST 2070—The Holocaust: A Survey	y 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
General electives selected in consultat	
au v 1301	25-25

# 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

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 Graduatio	n
Requirements on pages 25-28	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	g
Government	3
Capstone Course (in consultation with	
advisor)	3
Т	OTAL 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
Government3
POLS 2010—Comparative Government 3
POLS 2120—Introduction to Criminal
Justice
POLS 2310—Introduction to International
Relations3
POLS 2410—Introduction to Public
Administration
POLS 2460—Introduction to Political
Theory 3
TOTAL 9
General electives selected in consultation with
advisor

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 prelaw 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	1
Requirements on pages 25-28	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 Methods in	
Psychology	4
Capstone Course (in consultation with	
advisor)	1-3
TOT	AT 0-11

### **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 2200—Human Sexuality	3
PSYC 2330—Psychology of Adjustme	ent 3
PSYC 2380—Social Psychology	3
Т	OTAL 9
General electives selected in consultat advisor	

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 Anthropological and Linguistic studies or Humanities and Philosophical 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	l
Requirements on pages 25-28	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 Mythological	ogy 3

SOSC 2395—Seminar in Social Science
Research (Capstone Course)
or
HUMN 2440—Dialogues in the Humanities
(Capstone Course)3
TOTAL 9

\* 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.

### Track I — Anthropological and Linguistic

### Track II — Humanities and Philosophical

Number and Title Cre	edits
ENGL 2170—The Bible as Literature	3
ENGL 2280—Introduction to Mythology .	3
ENGL 2400/HUMN 2030—Introduction t	0
Folklore	3
ENGL 2410—Literary Genres:	3
HUMN 2420—Introduction to Cross-Culti	ural
Study	3
HUMN 2440—Dialogues in the Humanitie	es. 3
PHIL 1000—Introduction to Philosophy	3
PHIL 2200—Social and Political Philosoph	ıy.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, Archeology, 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	on
Requirements on pages 25-28	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, Archeology, 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	h
advisor	2

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 Graduati	on
Requirements on pages 25-28	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
T	OTAL 9

### **Core Electives**

Students must complete six credits from the following list of approved courses.

Number and Title	Credits
SOC 1005—Risky Behavio	ors 3
SOC 1200—Introduction to	Social Work 3
SOC 2325—Marriage and I	Family 3
SOC 2490—Topics Course	s in Sociology 3
•	TOTAL 6
General electives selected in	n consultation with
advisor	13_10

MINIMUM CREDITS FOR DEGREE = 64

## Faculty

M. Masterson, Chairperson R. Bedford, M. Bibbey, J. Champlin, J. Giarrizzo, N. Hansen, J. Kliewer, R. Tafoya, L. Thorpe

Throughout history all societies 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 some fundamental 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 Graphic Design Music

## Associate of Science Degree with specialization in

Music

## Associate of Applied Science Degree

Graphic Design Music Music Technology/Multimedia

## 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.

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 Grad	luation
Requirements on pages 25-28	36-42

Six hours of Visual & Performing Arts will be fulfilled by taking Core Courses.

### **Core Courses**

Number and Title	Credits
ART 1110—Design: 2-D	3
ART 1050—Drawing I	3
ART 1130—Design: Color	3
ART 1120—Design: 3-D	

OΓ
ART 2410—Ceramics I:
ART 2010—Art History I
or
ART 2020—Art History II
Capstone Course:
ART 2465—Art Portfolio2
or
ART 2400—Advanced Studio2-3
TOTAL 20-21
Transfer and General Electives selected in
consultation with advisor7-14

### **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 M	edia I 3
ART 2050—Life Drawing I	3
ART 2060—Life Drawing II	3
ART 2090—Printmaking I	3
ART 2092—Printmaking II: Serigraph	ıy I 3
ART 2210—Painting I	3
ART 2220—Painting II	3
ART 2420—Ceramics II:	3
ART 2479—Special Projects	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.

## Graphic 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.

Our recommended and core 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 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 graphic design applications.

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.

# ASSOCIATE OF ARTS with specialization in GRAPHIC DESIGN

### **General Education Requirements**

Number and Title	Credits
Students should refer to the Graduation	1
Requirements on pages 25-28	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
GRAR 1800—Introduction to Macinto	osh 3
ART 2120—Graphic Design I	3
ART 2130—Graphic Design II	3
ART 2100—Computer Graphics I	3
Capstone Course:	
ART 2465—Art Portfolio	2
or	
ART 2479—Special Projects	3
or	
ART 2400—Advanced Studio	2-3
TOTA	AL 20-21
Transfer and General Electives selecte	ed in
consultation with advisor	7-14

### **Transfer and General Electives**

Due to the technical aspects of this specialization, it is very strongly recommended that students take at least four courses (12 hours) from the following list.

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
ENGL 2030—Critical Reading and	
Writing	3
GRAR 1510—Introduction to Graphic	Arts 3
GRAR 1720—Imaging for Printing	
Reproduction	3
GRAR 1810—Electronic Publishing:	
PageMaker	3

OI	
GRAR 1820—Electronic Publishing:	
QuarkXPress	3
JOUR 1000-Introduction to Mass Media	3
PHTO 1610—Introduction to Photography	4
PHTO 2650—Digital Imaging I	3
PHTO 2660—Digital Imaging II	3
PHTO 2760—Introduction to Digital	
Multimedia	3

MINIMUM CREDITS FOR DEGREE = 64

# ASSOCIATE OF APPLIED SCIENCE GRAPHIC DESIGN

### **General Education Requirements**

Number and Title	Credits
Students should refer to the Graduatio	n
Requirements on pages 25-28	20-23

### **Core Courses**

N

Number and Title	Credits
ART 1050—Drawing I	3
ART 1110—Design: 2-D	
ART 1130—Design: Color	3
ART 2100—Computer Graphics I	3
GRAR 1810—Electronic Publishing:	
PageMaker	3
or	
GRAR 1820—Electronic Publishing:	
QuarkXPress	3
ART 2110—Typography	3
ART 2120—Graphic Design I	
ART 2130—Graphic Design II	3
ART 2465—Art Portfolio	2
GRAR 1510—Introduction to Graphic A	Arts 3
GRAR 1800—Introduction to Macinto	sh 3
PHTO 1610—Introduction to Photograph	ıy 3
ART 2010—Art History I	
or	
ART 2020—Art History II	3
ART 2479—Special Projects: Graphic	
Design	
ТО	TAL 41

### Electives

Number and Title	Credits
ART 1120—Design 3-D	3
ART 2090—Printmaking I	3
ART 2010—Art History I	3
ART 2020—Art History II	3
CO/M 2090—Introduction to Persuasi	ion 3
ENGL 2030—Critical Reading and	
Writing	3
GRAR 1720—Imaging for Printing	
Reproduction	3
PHIL 2200—Social and Political	
Philosophy	3
PHTO 2650—Digital Imaging I	3
PHTO 2660—Digital Imaging II	3
PHTO 2760—Introduction to Digital	
Multimedia	3

TOTAL CREDITS FOR DEGREE = 64

### Music

Musicians, whether performance, education, or technically oriented, need to have unique kinds of skills in addition to their general education examinations of life. The following curricular demands and outcomes are those found in most four-year college music departments and are recommended by the National Association of Schools of Music accrediting body in their curricular guidelines for accredited colleges. Northwest College is one of only 24 NASM accredited twoyear colleges in the country. 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 music classes offered regularly every year. These are core music courses found during the first two years at most fouryear colleges.

# ASSOCIATE OF ARTS with specialization in MUSIC

### **General Education Requirements**

Number and Title	Credits
Students should refer to the Graduatio	n
Requirements on pages 25-28	36-42

Six hours of Visual and Performing Arts will be fulfilled by taking Core Courses

### **Core Courses**

N1 T241-	C 124
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 3
T	OTAL 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 semest	ers) 0
MUSC-Music Ensemble (4 semester	rs) 4
MUSC—Applied Music (major instru	ment/
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	s
MUSC 1057—Introduction to Jazz	3
MUSC 1415—Introduction to Music	
Technology	2
MUSC 1435—Audio Recording	2
MUSC 2010—American Popular Music	3
MUSC 2060—Jazz Improvisation I	1
MUSC 2065—Jazz Improvisation II	1
MUSC 2440—MIDI	2
MUSC 2435—Advanced Audio Recording	3
MUSC 2500—Electronic Portfolio	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 Graduatio	n
Requirements on pages 25-28	24-27

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	ĺ
MUSC 1040—Written Theory II	3
MUSC 1045—Aural Theory II	ĺ
MUSC 2030—Written Theory III	3
MUSC 2035—Aural Theory III	ĺ
MUSC 2040—Written Theory IV	3
MUSC 2045—Aural Theory IV	ĺ
MUSC 2050—Music History Survey I 3	3
MUSC 2055—Music History Survey II 3	3
TOTAL 2	2

Transfer and General Electives selected in consultation with advisor .......15-18

# Recommended Transfer and General Electives

and General Electives
MUSC 1290—Class Piano I 1
or
MUSC 1200—Piano I2
MUSC 1295—Class Piano II 1
or
MUSC 1200—Piano I
MUSC 2290—Class Piano III 1
or
MUSC 2200—Piano II
MUSC 2295—Class Piano IV 1
or
MUSC 2200—Piano II
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	2
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 .	3
MUSC 2500—Electronic Portfolio	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 or	3
HIST 1210—United States History I and	3
HIST 1250—History of Wyoming	3
ENGL—English Requirement	6
MATH—Any College-Level Mathemat or	tics 3
BADM 1005—Business Mathematics	3
Humanities/Lab Science/Social Science	6
Wellness Education	2
TOTA	L 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	2
MUSC 2030—Written Theory III	3
MUSC 2035—Aural Theory III	1
MUSC 2040—Written Theory IV	3
MUSC 2045—Aural Theory IV	
MUSC 2050—Music History Survey	I 3
MUSC 2055—Music History Survey	
MUSC 2290/2295—Class Piano III/IV	V 2
MUSC 2455—Convocation (4 semest	ers) 0
MUSC-Music Ensemble (4 semester	rs) 4
MUSC—Applied Music (major instru	ment/
voice)	8
TO	OTAL 42

### **Recommended Electives**

Number and Title	Credits
MUSC 2010—American Popular Mu	sic 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
BADM 1000—Introduction to Busine	ess 3

TOTAL CREDITS FOR DEGREE = 64

## Music Technology/ Multimedia

The Associate of Applied Science degree in music technology and multimedia 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/MULTIMEDIA

### **General Education Requirements**

lumber and Title	Credits
Government or History Options	3-6
ENGL 1010—Introduction to Compos	sition 3
BADM 1020—Business Communicat	ions 3
BADM 1005—Business Mathematics	3
or	
MATH Any College-Level Mathemati	ics
Humanities/Social Science/Science (Jo	OUR
1000 recommended)	3
Visual and Performing Arts taken in C	ore
Courses	3
Wellness Education	2
TOTA	AL 20-23

### **Core Courses**

umber and Title	Credits
ART 2120—Graphic Design I	3
GRAR 1800—Introduction to Macinto	osh 3
MUSC 1030—Written Theory I	3
MUSC 1035—Aural Theory I	
MUSC 1040—Written Theory II	3
MUSC 1045—Aural Theory II	1
MUSC 1290—Class Piano I	1
or	
MUSC 1200—Piano I	
MUSC 1295—Class Piano II	1
or	
MUSC 1200—Piano I	2
MUSC—Music Ensemble (2 semester	rs) 2
MUSC—Applied Music (major instru	ment/
voice)	4
MUSC 2455—Convocation (2 semest	ers) 0
MUSC 1415—Introduction to Music	
Technology	2
MUSC 1435—Audio Recording	2
MUSC 2440—MIDI	
MUSC 2500—Electronic Portfolio	3
MUSC 2435—Advanced Audio Reco	rding 3
TO	OTAL 35
Electives selected in consultation with	i
advisor	9

**Electives** 

**Multimedia Production** 

JOUR 1020—Webcasting Practicum 1-2
PHTO 2650—Digital Imaging3
PHTO 2760—Introduction to Digital
Multimedia3
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 III3
MUSC 2035—Aural Theory III1
MUSC 2040—Written Theory IV 3
MUSC 2045—Aural Theory IV1
MUSC 2060—Jazz Improvisation I 1
MUSC 2065—Jazz Improvisation II 1
MUSC 2290—Class Piano III1
or
MUSC 2200—Piano II
MUSC 2295—Class Piano IV 1
or
MUSC 2200—Piano II
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:

y the following designators:	
Agriculture	AGRI
Agricultural Economics	AGEC
Agroecology	AECL
Animal Science Crop Science	ANSC CROP
Entomology	ENTO
Food Science	FDSC
Horticulture	HORT RGMG
Range Management Soil Science	SOIL
Agriculture Technology	AGTK
Anthropology	ANTH
Art	ART ASTR
Astronomy Aviation	AVTN
Biology	BIOL
Botany	BOT
Business Accounting	BUSN ACCT
Business Administration	BADM
Finance	FIN
Management	MGT
Management Information Systems Marketing	MKT
Business Office Technology	BOTK
Statistics	STAT
Chemistry	CHEM
CISCO Academy Codes Communication and Mass Media	CSCO CO/M
Computer Applications	CMAP
Computer Science	COSC
Criminal Justice	CRMJ
Developmental Studies Economics	DVST ECON
Education	EDUC
Counselor Education	CNSL
Curriculum & Instruction	EDCI
Early Childhood Educational Foundations	EDEC EDFD
Exceptional Children	EDEX
Library Science	LIBS
Engineering Science	ES
Electrical Apprenticeship Engineering Technology	ELAP ENTK
English	ENGL
<b>Equine Studies</b>	EQST
Family and Consumer Science	FCSC
Geography and Recreation Geology	G&R GEOL
Graphic Arts	GRAR
History	HIST
Human Development Humanities	HMDV HUM
Journalism	JOUR
Languages	00010
French	FREN
Greek Hebrew	GRK HEBR
Spanish	SPAN
Mathematics	MATH
Statistics	STAT
Molecular Biology Music	MOLB MUSC
Nursing Studies	NRST
Outdoor Education	
Activity	OEAC
Professional Philosophy	OEPR PHIL
Photographic Communications	PHTO
Physical & Health Education	HLED
PE Activities & Dance	PEAC
Varsity Athlectics Professional PE	PEAT PEPR
Physics	PHYS
Political Science	POLS
Postal Service Management	POST
Psychology Social Science	PSYC SOSC
Sociology	SOC
Theatre	THEA
Welding Technology Zoology	WELD
Louingy	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. These courses normally will count as elective credit

### **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 statement, balance sheet, and statement 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. (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. BMIS 2000 is recommended. (3 hrs lec 2 hrs lab)

### ACCT 2040 Accounting for Decision Makers (3)

Non-accountants will learn how to work with accounting representatives for planning, pricing, performance evaluation, and non-routine decision making. For accounting majors, this course typically will not transfer to other institutions. (3 hrs lec)

### 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 accounting simulation. 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 and liabilities. (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)

### 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-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 Agriculture** Records Management (2)

Students learn about advanced computerized financial records and analysis, computerized production records, and computerized crops production records. Student works within a selfpaced format and selects 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: AGEC 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, AGEC 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: AGEC 1010 or AGEC 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)

### AGRICULTURE TECHNOLOGY (AGTK)

### AGTK 1530 Principles of Technology I (3)

Covers the physical principles underlying today's technological world. Practical applications of physics, mathematics, and technology, as used in mechanical fluid, electrical, and thermal systems. Prerequisite: Placement at math level 2 within one year prior to enrollment. (2 hrs lec, 2 hrs lab)

### AGTK 1540 Principles of Technology II (3)

Continuation of AGTK 1530. Topics include momentum, waves and vibrations, energy convertors, transducers, radiation, optics, and time constants. Prerequisite: AGTK 1530. (2 hrs lec, 2 hrs lab)

### 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. Prerequisite: ANSC 1022. (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 showring 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 only. 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 only. 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 and 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 of 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 esthetics, 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, 2 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 1120 Design: 3-D (3)

Students address formal constructions and aspects of visual thinking associated with the three-dimensional form such as structure, organization, metaphor, and spatial quality. They explore various media, techniques, and concepts through a series of projects. Students examine conceptual issues while learning about contemporary and historical art movements.

(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. 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, 2 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, toushe, 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)

Provides an overview of using the computer for a

variety of electronic graphic applications. Students work on a number of exercises using word, draw, and paint programs emphasizing graphic design principles.

(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)

Explores concepts of basic typographic style, families, characteristics, and appropriateness of type and letterform in the field of graphic design. Utilizes design capabilities of the computer, pen, pencil and brush. Includes an awareness of typographic terms, equipment, and methods of working in a professional design environment. (2 hrs lec, 4 hrs lab)

### ART 2120 Graphic Design I (3)

Offers an introductory overview to the field of visual communication. Includes a basic understanding of the related fields of print production, photography, and computer graphics. Students gain an understanding of visual communication theory used in a variety of traditional graphic design applications. (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 morés, 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, 2 hrs lab)

### 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 2310 Sculpture I (3)

An introduction to the fundamentals of sculpture and three-dimensional form. Exploration of various media, techniques, and concepts through a series of assigned projects. Includes an emphasis

on the methods and materials used in threedimensional design. Prerequisite: Art 1120. (2 hrs lec, 2 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 are 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 and successful completion of at least 30 credit hours.

(2 hrs lec, 4 hrs lab) Capstone Course

### 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 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 portfolios; 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. Capstone Course (2 hrs lec)

### ART 2479 Special Projects: (3)

Students demonstrate advanced skills in graphic design and visual communication. Projects are client-based and deal directly with professional expectations. Emphasis is on professional conduct, deadlines and time management, writing proposals, negotiating fees and contracts, budget management, research, collaboration, concepting, preparing plans and comprehensives, presentations, and incorporating professional feedback. Prerequisite: ART 2120, ART 2130 (concurrent enrollment), ART 2100, and successful completion of at least 30 credit hours. (2 hrs lec, 2 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 hydrogenalpha 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 0920 or placement at math level 2 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 bring a business online, 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 Systems (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 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

### 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. *Prerequisite:* Placement at math level 2.

(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 phytogenic 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 Science House Seminar (3)

Students have the opportunity to live and work with other students interested in science disciplines. Students will develop individual projects within their discipline, exchange ideas, participate in joint class sessions, implement a community service project, and develop an appreciation for the commonality between scientific disciplines. 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: A Capstone Experience (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 registration.

(2 hrs lab)

# BIOL 2420 Studies in Rocky Mountain Ecology (4)

Introduction to the field study of the ecology of the Rocky Mountains. Emphasizes the interrelationships between geology, soils, climate, plants, and wildlife as found in the Yellowstone-Teton-Absaroka mountain area of northwestern Wyoming. Necessary concepts introduced and illustrated through field observations. *Prerequisite:* Consent of instructor. (3 hrs lec, 2 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 biosystematics. 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 OFFICE 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 2900 Office Systems and Procedures (3)

Designed for students interested in pursuing a career as an administrative assistant. Emphasizes procedures used in supervision, organization, written and oral communication, time management, decision making, information management, planning meetings, travel arrangements, job seeking, and advancement. *Prerequisite:* CMAP 1715 and successful completion of at least 30 credit hours. (3 hrs lec)

### **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)

### BOTK 2970 Internship: (2)

Focuses on practical experience in an actual office for two weeks. Students spend one week of preparation on campus prior to two weeks of work experience in a city such as Denver or Billings. Testing is conducted by temporary help placement agencies. Students placed in a work situation can earn full pay from the agency. Students must pay for all living expenses in the town of temporary employment. *Prerequisite*: BOTK 2900 and consent of instructor.

(3 hrs lec/lab per credit hour)

### **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 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 2149 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 and 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 stereo chemistry. Introduces nuclear magnetic resonance, ultraviolet, infrared, and mass spectral analysis of organic compounds. Prerequisite: CHEM 1020, 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 Science House Seminar (3)

Students have the opportunity to live and work with other students interested in science disciplines. Students will develop individual projects within their discipline, exchange ideas, participate in joint class sessions, implement a community service project, and develop an appreciation for the commonality between scientific disciplines. Students will be expected to make a public presentation of their work. Prerequisite: Successful completion of at least 30 credit hours.

### Capstone Course (3 hrs lec)

### 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 projectbased 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: CMAP 1610 and CMAP 1620

### (2 hrs lec, 2 hrs lab)

### CMAP 1620 Windows II (1)

In this advanced Windows course, students acquire information needed to manage, support, and troubleshoot the Windows Registry. Students learn ways to increase or modify the system's performance using RegEdit as well as DAT files. They also explore Registry editing tools. Prerequisite: CMAP 1610. (.5 hr lec, 1 hr lab)

### CMAP 1635 Programming I: (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 and CMAP 1610. (2 hrs lec, 2 hrs lab)

# **CMAP 1680 Microcomputer Applications:**

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 credit 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. Prerequisite: CMAP 1610 or equivalent and keyboarding skill of 30 wpm or better. (.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, CMAP 1610, demonstrated keyboarding proficiency of 45 wpm or better, and basic word processing skills. (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 1680.

(.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. *Prerequisite:* BMIS 2000, CMAP 1610, and CMAP 1620. (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. *Prerequisite:* CMAP 1650. (2 hrs lec, 2 hrs lab)

# CMAP 1940 LAN Server Installation and 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:* CSCO 2000 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 in the Netware environment. *Prerequisite:* CMAP 1650, CMAP 1680, and 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 emulsion, and data communication products. *Prerequisite*: BMIS 2000 and CMAP 1680. (2 hrs lec, 2 hrs lab)

### CMAP 2540 Software Installation/ Troubleshooting (2)

Students learn to install various application software packages on PC and network server computers, practice troubleshooting techniques, and learn various methods of automating installation. *Prerequisite:* CMAP 1615. (1 hrs lec, 2 hrs lab)

### CMAP 2550 Visual Basic Programming (3)

Students learn an advanced programming language and become familiar with object-oriented design, abstract data types, objects, inheritance, functions, and stream input and output.

\*Prerequisite:\* CMAP 1635
(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 equivalent and keyboarding skill of 30 wpm or better, and at least beginning level word processing skill, and intermediate-level experience on a PC. (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 and CSCO 2000. (2 hrs lec, 2 hrs lab) *Capstone Course* 

### CMAP 2889 Java Programming (3)

Students learn an advanced programming language and become familiar with object-oriented design, abstract data types, objects, inheritance, functions, and stream input and output. *Prerequisite:* CMAP 1635.

(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: (1-6)

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 for each credit hour)

# COUNSELOR EDUCATION (CNSL)

# CNSL 2410 Educational Guidance for Elementary and Middle Schools (2)

An introductory course primarily for teachers, teachers-in-training, and counselors. Covers individual and group guidance and counseling techniques in the elementary and middle schools. Emphasizes the role of teachers and counselors in providing guidance, counseling, and experiences for children to promote social, emotional, and psychological growth. A course approved by the State of Wyoming's Professional Teaching Standards Board for teacher certification credit. *Prerequisite:* Wyoming teacher certification. (2 hrs lec)

# 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 1030 Interpersonal Communication (3)

Concerned with communication on a person-toperson 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 1060 Beginning Forensics (1)

Introduces beginning forensics students to basic

research, critical thinking, and organizational skills for the development of competent collegiate forensic speaking abilities. Requires attendance at minimum of two competitive tournaments per semester in debate and/or individual events. May be repeated once for credit (2 hrs lab)

# CO/M 1200 Beginning Sign Language-SEE II

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 the 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)

Educates potential Resident Assistants in areas of student growth and development. Emphasizes dealing with resident students in an effective manner. Explores theory and experiential learning situations. Prerequisite: Consent of Director of Residential Life. (.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 once 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

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, paralinguistics, 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 2250 Organizational Communication (3)

An overview of organizational communication theory and practice. Emphasis on communication patterns and roles. Includes attention to dyadic, group, public, and mediated experiences in organizations. Prerequisite: CO/M 1030 and CO/M 1040. (3 hrs lec)

### CO/M 2485 Sophomore Seminar: Communication (2)

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. (2 hrs lec) Canstone Course

### 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. This course is the same as 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. (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. (3 hrs lec)

### CROP SCIENCE (CROP)

### CROP 2000 Plants, Agriculture, Civilization (4)

Covers the importance of crop plants in feeding the world. Botany and plant physiology presented so as to provide 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 addressed. Prerequisite: BIOL 1010.

(3 hrs lec, 2 hrs lab)

### 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)

### CISCO ACADEMY CODES (CSCO)

### CSCO 2000 Internetworking I (5)

This computer networking course provides the student with a familiarity of the seven OSI layers. Students will acquire skills used in TCP/IP addressing, subnetting, cabling media, and equipment. Prerequisite: Consent of instructor. (5 hrs lec)

### CSCO 2020 Internetworking II (5)

The second level of computer networking emphasizes the transport layer and router functions. Students will be required to configure and troubleshoot a network of five routers. Prerequisite: CSCO 2000.

(5 hrs lec)

# DEVELOPMENTAL STUDIES (DVST)

### DVST 0104 Conversational English for Non-Native English Speakers (3)

Course designed for students with weak conversational abilities in English compared to reading and writing skills in English. Prepares students to understand academic lectures and note-taking methods. Course helps student feel confident and at ease when asking and answering questions in a typical classroom setting. (3 hrs lec)

# DVST 0106 Reading and Writing for Non-Native English Speakers (3)

Course intended for students who don't possess English as a native language. Class focuses on sharpening reading, writing, and composing skills as a means of facilitating and refining comprehension and communication in English. Course provides practice in what constitutes a "good" essay in the United States. (3 hrs lec)

### 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)

### DVST 0890 Basic Skills Development (1)

First course required for Academic Success Program. Designed to help students study quickly and efficiently. Study techniques, note-taking, testtaking, and listening skills comprise much of course content. Must be taken in conjunction with HMDV 1000.

(1 hr 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 brs lec)

### EDUCATION - CURRICULUM/ INSTRUCTION (EDCI)

# **EDCI 1010 Field Experience: Prospective** Teachers (1)

Provides an overview of teaching. Requires observation, 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. 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 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:* Previous or concurrent enrollment in GEOL 1100. (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 2400 Middle School Curriculum (2)

A basic professional course for the preparation of middle school educators. Includes a review of the reorganization of junior high school leading to the establishment of the middle school philosophy, the teacher, and the unique function of the middle school. 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 or prospective secondary education 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 may be 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 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.

# EDFD 2470 Growth and Development of the Middle School Child (2)

Focuses on human growth and development as it applies to adolescence. Instructs teachers, prospective teachers, and administrators in the physical, cognitive, social, and emotional implications of instruction and education for adolescents. Course addresses common problems of adolescence, societal expectations, pressures, and the nature of families. Emphasizes educational and instructional strategies and practices within this context. A course approved by the State of Wyoming's Professional Teaching Standards Board for teacher certification credit. *Prerequisite:* Wyoming teacher certification. (2 hrs lec)

### **EDUCATION (EDUC)**

### 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 communication.

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. Also must have written consent of instructor and successful completion of at least 30 credit hours. (1.5 hrs lec, 6-12 hrs lab)

Capstone Course

# 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, 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 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)

### 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 Honor's section, the prerequisite is: Acceptance into the Honors Program or completion of ENGL 1010 with an "A-" or better.) All students who satisfactorily complete this course receive honors credit. (3 hrs lec)

### ENGL 1110 Advanced English Composition (3)

An advanced course designed to teach the student to write analytically. Involves study of rhetorical strategies. *Prerequisite:* Completion of ENGL 1010 with a "C-" or better or placement at English level 4.

(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.

### 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 the 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 either prose fiction, poetry, drama, 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 technical topics include foundation, electrical, framing, plot plans, air conditioning, and solar. *Prerequisite:* ENTK 1710. (2 hrs lec. 2 hrs lab)

# ENTK 1750 Commercial Architect. 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)

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## ENTK 1800 Cartography I (3) Drafting instruction relative to re

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 Survey (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. *Prerequisite:* ENTK 1510.

(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

### 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)

### **EOST 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.

### EOST 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)

### EOST 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 and Stall Care I (1)

Students responsible for twice daily feeding and stall care. Covers proper watering, grooming, foot and veterinary care; aisleway, 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 and Stall Care II (1)

Students responsible for twice daily feedings and stall care. Covers proper watering, grooming, foot and veterinary care; aisleway, 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 (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 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 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 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 EOST

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 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 and Stall Care III (1)

Students responsible for twice daily feeding and stall care. Covers proper watering, grooming, foot and veterinary care; aisleway, 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.

## EQST 2545 Applied Horse and Stall Care IV

Students responsible for twice daily feedings and stall care. Covers proper watering, grooming, foot and veterinary care; aisleway, arena, and tack maintenance; and specific adherence to rules and procedures concerning housing horses in the Equine Center. Emphasizes design and budgets 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

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 phasers. *Prerequisite:* Previous or concurrent enrollment in MATH 2205. (4 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 Science House Seminar (3)

Students have the opportunity to live and work with other students interested in science disciplines. Students will develop individual projects within their discipline, exchange ideas, participate in joint class sessions, implement a community service project, and develop an appreciation for the commonality between scientific disciplines. 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 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 and 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 of high school French or completion of FREN 2040 with a "C-" or better.

(3 hrs lec)

#### FREN 2230 French Play Production (1)

Students study and perform one play by a wellknown French playwright. Briefly examines the biography of the author and the period in which the play was written. Prerequisite: Completion of FREN 1020 with a "C-" or better. (1 hr lec)

#### FREN 2460 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 and Tourism

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 of 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 nongeologist; does not fulfill lab science requirement. Limited enrollment.

(2 hrs lab delivered through 24 clock hours in the

#### GEOL 1100 Physical Geology (4)

An introduction to the materials and processes of the earth. Emphasizes minerals, rocks, structures, and landforms. Required field trips emphasize geology of the area. Prerequisite: Placement at math level 2. (3 hrs lec, 3 hrs lab)

#### GEOL 1200 Historical Geology (4)

An introduction to the geological history of the earth. Emphasis upon the physical development of the continents, plate tectonics, and evolution of the fossil record. Required field trips to localities of historical interest. Prerequisite: Placement at math level 2.

(3 hrs lec, 3 hrs lab)

#### GEOL 1235 History and Geology of the Yellowstone Area (3)

This course is an intensive, hands-on, mountainsite 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 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 Science House Seminar (3)

Students have the opportunity to live and work with other students interested in science disciplines. Students will develop individual projects within their discipline, exchange ideas, participate in joint class sessions, implement a community service project, and develop an appreciation for the commonality between scientific disciplines. 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**

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. (2 hrs lec, 2 hrs lab)

#### 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. (2 hrs lec, 2 hrs lab)

## GRAR 1810 Electronic Publishing: PageMaker

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. Prerequisite: GRAR 1510 and GRAR 1800

(2 hrs lec, 2 hrs lab)

#### **GRAR 1820 Electronic Publishing:** QuarkXPress (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. (2 hrs lec. 2 hrs lab)

## GRAR 1850 Advanced Electronic Publishing

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. (2 hrs lec, 2 hrs lab)

#### 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. (2 hrs lec, 2 hrs lab)

#### 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 studentgenerated, 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.

#### GRAR 2750 Magazine Editing and 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 reading, 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

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.

## 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 (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 for credit. Prerequisite: HEBR 1020. (1 hr lec)

## HISTORY (HIST)

#### HIST 1110 Western Civilization I (3)

A survey of western civilization from ancient times through the 16th century, including the ancient Near East, Greece, Rome, Byzantium, Islamic civilization, and medieval Europe. (3 hrs lec)

#### HIST 1120 Western Civilization II (3)

A survey of western civilization from the Renaissance and Reformation through the 20th century. (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 the Yellowstone Area (3)

This course is an intensive, hands-on, mountainsite 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 the 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 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 through 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.

#### 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.

(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.

(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. (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 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 PHYS 2149 and 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 2471 Internship: History (1-6)

Available to a serious student who desires to observe and participate in a demanding and rewarding professional off-campus experience. Prerequisite: Consent of the on-campus instructor. (2 hrs lab 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 nonactivity based wellness education or three credits of social science.

(3 hrs lec)

## **HLED 1006 Personal and Community Health**

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)

Prepares students to cope when emergency first aid or CPR is needed. Emphasizes accident prevention and treatment of injuries. Uses Red Cross materials for CPR (2 hrs lec)

### **HLED 1235 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 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)

## 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)

#### 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.

## **HMDV 1200 Academic and Career Orientation**

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 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.

#### **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.

### **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 U.S. 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 Field Studies: (1-3)

Course offers students the opportunity to travel to

various destinations (i.e., Great Britain, Hawaii, etc.) to explore the culture 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)

## 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 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 Publication 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 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. 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 studentgenerated, student-edited, and student-published magazine. Prerequisite: Student must complete application for admission. (3 hrs lec)

#### JOUR 2270 Magazine Editing and Management (3)

Provides practical experience in editing and managing the production of a student magazine. Includes planning, decision making, personnel management, and networking. Prerequisite: Students must complete application and interview for admission. Successful completion of at least 30 credit hours.

(3 hrs lec)

Capstone Course

## 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, rations 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. Offers an understanding of the structural language of the real number system. 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 precalculus 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 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 isolated 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

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 2210 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 variable 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 Business Math (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, BMIS 2000, and STAT 2005. (4 hrs lec)

#### MATH 2385 Science House Seminar (3)

Students have the opportunity to live and work with other students interested in science disciplines. Students will develop individual projects within their discipline, exchange ideas, participate in joint class sessions, implement a community service project, and develop an appreciation for the commonality between scientific disciplines. 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) Capstone Course

## 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 1240 Consumer Behavior (3)

Students analyze the dimensions of the consumer market and decision-making process. Students will learn how culture, subculture, social class, reference group, family, attitudes, perceptions, motivation, personality, and learning theory impact consumer and marketing management decisions. (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)

#### MOLB 2220 Pathogenic Microbiology (4)

Continues the study of microorganisms with particular reference to those of medical importance. Laboratory emphasis on isolation, cultivation, and identification of pathogenic bacteria, fungi, and parasites. Prerequisite: MOLB 2210.

(3 hrs lec, 4 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 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, composing 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.

#### 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.

#### 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. (.5 hr lec, 1 hr 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. (.5 hr lec, 1 hr lab)

#### 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

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 once 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 once 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 once for credit. *Prerequisite:* Consent of instructor. (2 hrs lab)

#### MUSC 1390 Jazz Ensemble (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 once 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 once 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 once 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 once 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 once 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 once for credit. (3 hrs lab)

#### MUSC 1435 Audio Recording (2)

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)

#### MUSC 1450 Percussion Ensemble (1)

Percussion ensembles offered depending on instrumentation and interest of students. May be repeated once 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 once 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 once for credit. *Prerequisite:* Consent of instructor.

(2 hrs lab)

#### MUSC 1480 String Ensemble (1)

String ensembles offered depending on instrumentation and interest of students. May be repeated once 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, and rock and roll. Emphasis placed on gaining a historical sense of the music's development and also on interpreting social and cultural implications of the sounds and forms of American popular music. *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. (3 hrs lec)

#### 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 and 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 1191

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) Prerequisite: MUSC 1270

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 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. (.5 hr lec, 1 hr 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. (.5 hr lec, 1 hr lab)

#### MUSC 2378 College Band (1)

Open to all students with performing experience on brass, woodwind, and percussion instruments. Ensemble performs standard wind band repertoire. Students are expected to exhibit a greater level of musical involvement in the group and serve as leaders in the ensemble. Membership subject to director's approval. *Prerequisite:* MUSC 1378. (3 hrs lab)

#### MUSC 2379 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 once for credit. (2 hrs lab)

#### 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 2388 Jazz Combo II (1)

An ensemble which performs small group jazz

music. Emphasis on ensemble playing and individual expression through improvisation. Students are expected to exhibit a greater level of musical involvement in the group and serve as leaders in the ensemble. May be repeated once for credit. *Prerequisite:* MUSC 1388 and consent of instructor.

(2 hrs lab)

#### MUSC 2390 Jazz Ensemble II (1)

A 16-20 piece ensemble for brass, woodwind, and rhythm players. Open to all students interested in performing contemporary jazz band literature. Students are expected to exhibit a greater level of musical involvement in the group and serve as leaders in the ensemble. Members are chosen by audition. May be repeated once for credit. *Prerequisite*: MUSC 1390. (2 hrs lab)

#### MUSC 2400 Collegiate Chorale (1)

A non-auditioned choral performing ensemble open to all student members of the college community. The course goal involves vocal and musical growth in a group performance context. Students are expected to exhibit a greater level of musical involvement in the group and serve as leaders in the ensemble. May be repeated once for credit. *Prerequisite*: MUSC 1400. (2 hrs lab)

#### MUSC 2403 Vocal Jazz (1)

A vocal ensemble specializing in jazz and popular music performances, using a rhythm section as accompaniment. Students are expected to exhibit a greater level of musical involvement in the group and serve as leaders in the ensemble. Members are chosen by director's audition. May be repeated once for credit. *Prerequisite:* MUSC 1403. (2 hrs lab)

#### MUSC 2404 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 once for credit. *Prerequisite:* MUSC 1404. (2 hrs lab)

### MUSC 2405 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. Students are expected to exhibit a greater level of musical involvement in the group and serve as leaders in the ensemble. Members chosen by audition. May be repeated once for credit. *Prerequisite*: MUSC 1410. (2 hrs lab)

#### MUSC 2420 Sound Reinforcement II (2)

A continuation of MUSC 2410. An expansion into the area of multi-track recording. Includes discussion of modern recording techniques, as well as hands-on application. *Prerequisite:* MUSC 2410 or consent of instructor. (2 hrs lec, .5 arr lab)

#### MUSC 2430 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 once for credit. *Prerequisite:* MUSC 1430. (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. (2 hrs lec, 2 hrs lab)

#### 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 2450 Percussion Ensemble (1)

Percussion ensembles offered depending on instrumentation and interest of students. Students are expected to exhibit a greater level of musical involvement in the group and serve as leaders in the ensemble. May be repeated once for credit. *Prerequisite:* MUSC 1450 and consent of instructor. (2 hrs lab)

#### MUSC 2455 Convocation (0)

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)

### MUSC 2460 Brass Ensemble (1)

Brass ensembles offered depending on instrumentation and interest of students. Students expected to exhibit a greater level of musical involvement in the group and serve as leaders in the ensemble. May be repeated once for credit. *Prerequisite:* MUSC 1460 and consent of instructor. (2 hrs lab)

#### MUSC 2470 Woodwind Ensemble (1)

Woodwind ensembles offered depending on instrumentation and interest of students. Students expected to exhibit a greater level of musical involvement in the group and serve as leaders in the ensemble. May be repeated once for credit. *Prerequisite:* MUSC 1470 and consent of instructor.

(2 hrs lab)

## MUSC 2471 String Ensemble (1)

String ensembles offered depending on

instrumentation and interest of students. Students are expected to exhibit a greater level of musical involvement in the group and serve as leaders in the ensemble. May be repeated once for credit. *Prerequisite:* MUSC 1480 and consent of instructor. (2 hrs lab)

#### MUSC 2500 Electronic Portfolio (3)

Designed for students pursuing the AAS in Music Technology/Multimedia. Students develop and present, in a multimedia format, a collection of their musical, print, and other work which exhibits their abilities, progress, effort, and program achievements. *Prerequisite:* MUSC 1415, MUSC 1435, MUSC 2440 and successful completion of at least 30 credit hours.

(2 hrs lec, 2 hrs lab)

Capstone Course

## NURSING (NRST)

#### NRST 1200 Medical Terminology (1)

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 1610 Nursing I (10)

Utilizes an integrated approach to introduce students to the nursing process and its use as a fundamental tool in planning and providing nursing care to patients/clients across the life span. Students are provided with the theory, principles, and skills necessary to provide nursing care to meet basic patient/client needs in the clinical setting. Introduces the students to the metric, apothecary, and household systems of measure, and computation of drug dosages in preparation for medication administration. *Prerequisite:* Admission to Nursing Program.

(7.5 hrs lec, 1.5 hrs lab, 4.5 hrs clinical x 10 wks)

### NRST 1620 Nursing II (10)

Utilizes an integrated approach for student learning as it applies to the nursing process to plan and provide nursing care to meet the needs of patients/clients across the life span who experience common, well-defined health problems in acute and long-term care health settings. The role of the nurse in meeting the needs of the family experiencing childbirth is included. Introduces the students to pediatric patient/ client. *Prerequisite:* Successful completion of the first semester of the Nursing Program.

(6.25 hrs lec, 1.5 hrs lab, 9 hrs clinical)

#### NRST 1640 Basic Intravenous Therapy (2)

Presents the beginning skills and knowledge needed to administer intravenous therapy. Course includes lecture, demonstrations, and clinical experience on an arranged basis. *Prerequisite:* Licensure in Wyoming as a Licensed Practical Nurse. Must carry personal Malpractice Liability Insurance.

(16 hrs lec, 16 hrs clinical/semester)

#### 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 1980 Practical Nursing Role Exploration (5)

Utilizes an integrated approach to teach students to apply the nursing process to meet the needs of groups of patients/clients across the life span who have common well-defined health problems in structured settings. Students provided with the concepts necessary to exit as a Practical Nurse. *Prerequisite:* Successful completion of the first and second semesters of the Nursing Program. (2 hrs lec, 21 hrs clinical x 8 wks)

#### NRST 2500 LPN Transition (1)

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. (variable)

#### NRST 2630 Nursing III (10)

Utilizes an integrated approach for student learning in the utilization of the nursing process to meet the needs and manage the care of groups of patients/clients across the life span who experience common, complex health problems in acute and long-term care health settings. Introduces the students to Intravenous Therapy and the knowledge and skill necessary to deliver Intravenous Medications safely. Includes a calculation of IV drug dosages and calculation of IV flow rates. Emphasis is placed on assisting students in making the transition from the role of students to that of an Associate Degree Nurse. Prerequisite: Successful completion of the first two semesters of the Nursing Program or advanced placement.

(4.25 hrs lec, 1.5 hrs lab, 15 hrs clinical)

#### NRST 2640 Nursing IV (10)

Utilizes an integrated approach to teach students to utilize the nursing process to manage the nursing care to meet the needs of groups of patients/clients across the life span who experience common, complex health problems in acute and long-term care health settings. Emphasis placed on assisting students in making the transition from the role of student to that of graduate Associate Degree Nurse. *Prerequisite:* Successful completion of the first three semesters of the Nursing Program and of at least 30 credit hours.

(5 hrs lec, 15 hrs clinical) Capstone Course

#### 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)

## OUTDOOR EDUCATION -ACTIVITY (OEAC)

OEAC 1100 Outdoor Living Skills: Desert (1) 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, 1 hr lab)

## OEAC 1150 Outdoor Living Skills: Mountain

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)

# 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 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)

## 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 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 1252 Beginning Badminton (.5)

Introduces techniques of grip, wrist action, footwork and position, strokes, service, and shots. Emphasis on strategy for singles and doubles 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 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 herringbone), 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 organization. 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, and terminology. (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 1430 Modern Dance I (1)

A basic introduction to modern dance technique, including an introduction to dance history and health for dancers. Acquaints students with the basics of choreography, improvisation, and performance skills.

(2 hrs lab)

### 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)

# 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 locomotor, 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 1061 Majors Basketball (2)

Introduces fundamentals, plays, and techniques. Covers theories of various offensive and defensive techniques. (2 hrs lec)

(2 ms iec)

### PEPR 1062 Majors Volleyball (2)

Designed for physical education students. Course focuses on advanced skill development with some emphasis on teaching and coaching methodology. *Prerequisite:* PEAC 1260 or intermediate level skills.

(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 2069 History and 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 and 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)

Students gain practical experience in physical education, health, and coaching through placements in settings such as coaching situations, after school programs, recreational sports programs, geriatric programs, movement or dance academies, and health facilities. Students receive skill development guidance from on- and off-campus professionals. They also receive an assessment of their professional skills. *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 and 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 COMMUNICATIONS (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 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. *Prerequisite:* Consent of instructor. (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 and Basic Lighting

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:* PHTO 1610.

(2 hrs lec, 4 hrs lab)

#### 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: PHTO 1610.

(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: PHTO 1630. (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: PHTO 2510

(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: PHTO 1630.

(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: PHTO 2610. (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. Prerequisite: PHTO 1610 and GRAR 1800. (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: PHTO 2650. (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 Communications. Prerequisite: PHTO 1630 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: PHTO 2710 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: PHTO 2510 or PHTO 2610. (3 hrs lec)

## PHTO 2760 Introduction to Digital Multimedia

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: PHTO 2650.

(3 hrs lec)

## 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 Science House Seminar (3)

Students have the opportunity to live and work with other students interested in science disciplines. Students will develop individual projects within their discipline, exchange ideas, participate in joint class sessions, implement a community service project, and develop an appreciation for the commonality between scientific disciplines. 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 and 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. Prerequisite: POLS 1000 or HIST 1210. (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. This course is the same as 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. (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 hrs lec) Capstone Course

## 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

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.

(3 hrs lec. 2 hrs lab)

### 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. Prerequisite: PSYC 1000, consent of instructor, and successful completion of at least 30 credit hours. (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)

## 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**

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.

(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.

(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)

## SOIL SCIENCE (SOIL)

SOIL 2100 Introduction to Soil Science (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 wildland and agriculture ecosystems. (3 hrs lec, 2 hrs lab)

## SOCIAL SCIENCE (SOSC)

## SOSC 2395 Seminar in Social Science Research

Students learn about the traditions and research techniques of various social science disciplines. Students acquire familiarity with library, Webbased, 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 lab. *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. 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 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. Not intended for transfer credit. 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 by reading simple novels, short stories, or dramas. *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.

## 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 with a "B" or better, SPAN 2030, or SPAN 2040. (3 hrs lec)

## SPAN 2420 Introduction to the Literature and Culture of Spain (3)

Designed to prepare the student for upper division Spanish literature and civilization courses. Includes readings and lectures in Spanish on the literature and civilization of Spain. *Prerequisite:* Three years of high school Spanish, SPAN 1020 with a "B" or better, SPAN 2030, or SPAN 2040. (3 hrs lec)

## SPAN 2430 Introduction to the Literature and Culture of Latin America (3)

Designed to prepare the student for upper division Latin America literature and civilization courses. Includes readings and lectures in Spanish on the literature and civilization of Latin America. *Prerequisite:* Three years of high school Spanish, SPAN 1020 with a "B" or better, SPAN 2030, or SPAN 2040.

(3 hrs lec)

#### SPAN 2460 Field Studies: (1-3)

(1-3 hrs lec)

An introduction to the culture, geography, history, and language of a Spanish-speaking country. Course normally includes preparation prior to travel and intensive language and cultural study in the foreign country. *Prerequisite:* Consent of instructor.

## STATISTICS - BUSINESS (STAT)

## STAT 2010 Statistical Concepts 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. *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)

## STATISTICS -MATHEMATICS (STAT)

#### STAT 2005 Fundamentals of Statistics (3)

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. *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)

## 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

(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)

MIG and TIG skills; pipe welding skills; higher skills of welding copper, aluminum and stainless steel are covered in this course. For students seeking a degree in Welding. Prerequisite: WELD 1705. (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 Welding Fabrication Techniques (4)

Consists of developing plans and producing a

finished project. Various welding position 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 student. Prerequisite: WELD 1700.

(1 hr lec, 4 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

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 seeking a degree 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 2995 Welding Workshop (1-3)

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

(2 hrs lec and 2 hrs lab per credit hour) Capstone Course

## Z00L0GY (Z00)

## **ZOO 2010 Human Anatomy and Physiology I**

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 and Physiology II**

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.

#### **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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Powell

Term expires 2002

MOLLER, FRED

Trustee Cody

Term expires 2004

NEWELL, RALPH

Trustee

Cody

Term expires 2002

THOMAS, JOE

Trustee

Meeteetse

Term expires 2004

#### Administration

#### FEINERMAN, FRANCES

President, 1998 Bard College, BA 1962 Cornell University, MA 1965

San Francisco State College, MA 1969 University of Illinois at Chicago, PhD 1981

HALL, ALICE

Dean of Students, 1998 College of William and Mary, BA 1979 Auburn University, MEd 1981

Virginia Tech, EdD 1997

HAMANN, GREG

Dean of Administrative Services, 1996 University of Minnesota, BS 1976

Trinity Evangelical Divinity School, MA 1980 Gonzaga University, PhD 1996

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

## Faculty

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 Albright of the N.B.C. Symphony–Toscanini, Conductor, 1948-1952

nini, 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

University of New Mexico
Universite de Neuchatel Switzerland

Fulbright Lecturer, Universite de Dijon, France

BOARDMAN, RUSSELL

Agriculture Pavilion Manager; Livestock Judging Coach, 1985 University of Wyoming, BS 1982

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

CRAWFORD, CONNIE

Assistant Professor of Nursing, 2000 University of Wyoming, BS 1993 University of Washington, MSN 2000 University of Washington, PhD 2000

DAVIS, DENNIS

Instructor in Journalism/Mass Communication, 1998 University of Wyoming, BS 1974, BS 1978

DECHERT, RENEE

Assistant Professor of English, 1997 Baylor University, BA 1986, MA 1989 Texas A&M, PhD 1997

DOOLEY, VERNON

Associate Professor of Agriculture; Chairperson of Agriculture, Technology, and Business Division, 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

ENGER, JOHN

Professor of Physics and Mathematics, 1969 Concordia College, BA 1959 Temple University, MSEd 1963 University of Wyoming

ERICKSON, DAVID

Assistant Professor of Sociology, 1994 University of North Dakota, BS 1990, MA 1993

FEYHL, SCOTT

Professor of Health, Outdoor and Physical Education; Director of DELTA; Manager of Recreation Equipment Co-op, 1972 University of Wyoming, BS 1972, MS 1978

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

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

HARBRON, 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

HORTON, BARBARA

Assistant Professor of Equine Studies, 1976 California State Polytechnic University at Pomona, BS 1975

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

KEPPEN, KEN

Instructor in Mathematics and Physics, 2000 Oregon State University, BS 1991 Oregon State University, BS 1994 University of Illinois, MS 1995

KIMBLE, ELISE

Instructor in Biological Sciences, 1998 Augustana College, BA 1967 University of Nebraska, MS 1984

#### 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

Assistant Professor of Mathematics, 1988 Utah State University, BA 1980 Colorado State University, MS 1988

#### KRUSE, ROBERT

 $Associate\ Professor\ of\ Accounting/Business\ Administration,\\ 1983$ 

Miami University, BS 1972

Montana State University, MS 1974, EdD 1979; CMA 1988

#### LORD, LARRY

Instructor in Mathematics, 2001 South Dakota School of Mines and Technology, BS 1995 Murray State University, MS 1998

#### 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

#### 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

#### NORTHRUP, ASTRID

Instructor 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

Associate Professor of Communication, 1966 University of Wyoming, BA 1965, MA 1969

#### 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

#### 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

#### SKINNER, DAVID

Professor of Mathematics, 1967 University of Wyoming, BS 1963, MS 1965

#### 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

Visiting Instructor, Art, 1999 San Jose State University, CA, BS 1984

#### THORPE, LYNN

Assistant Professor of Art, 1984 University of Washington, BA 1968 University of Wyoming, BA 1981, MFA 1983

#### THULIN, STEVEN

Assistant 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

#### VOEGE, JEAN

Assistant Professor of Nursing, 1995 Bishop Clarkson Memorial Hospital School of Nursing, Diploma 1981, BS 1984 Clarkson College, MS 1995

#### 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 University of Wyoming

## 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

Instructor in Political Science, 2001 Western Illinois University, BS 1990 Western Illinois University, MA 1994

#### WHITE, CAROLYN

Assistant Professor of Business Technology, 1981 Chadron State College, BS 1971 Eastern Montana College, MEd 1985

#### 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

#### WOODRUFF, DARLENE

Assistant Professor of Nursing, 1990 University of Nevada–Las Vegas, BSN 1984, MSN 1991

### 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

#### Professional Staff

#### AMOTH, HOLLY

Director of Personnel, 1999 Concodia College, BA 1989

#### 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

#### BOGGIO, PAMELA

Area Coordinator, Ashley Hall, 1998 Northwest College, AS 1995 Mankato State University, BS 1997

#### BRAWLEY, BOB

Director of the Physical Plant, 2000

#### BUSHNELL, ROM

Program Coordinator of ABE/GED/ESL, 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

#### CLARK, RICHARD

Director of Bookstore, 1999 Central Missouri State University, BS 1971

#### CROSBY, KATHERINE

Director of Cooperative Education Programs, 1998 Miles Community College, AA 1992 Montana State University–Northern, BS 1995

#### DICKS, DAMIAN

Interim Data Base Administrator, 2000 Northwest College, AAS 1996

#### ELIAS. IAMES

Director of Workforce Development & Continuing Education, 2000

Youngstown State University, BS 1972 Florida Atlantic University, MEd 1998

### 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

#### GRIFFIN, JANA

ABE/ESL Coordinator – Cody, 1998 California Baptist College, BA 1966

#### HAMMOND, BRAD

Interim Enrollment Services Coordinator, 2000 Northeastern State University, BA 2000

#### HAVIG, DEI

Director of Residence Life, 1987-91; 1992 University of Wyoming, BA 1992, MA 1999

#### HEIMER, JO ANN

Director of Budget and Accounting, 1975

#### HERMAN, ROXANNE

Director of Student Health Services, 1998 Bryan Memorial School of Nursing, RN 1984 University of North Dakota, PA Certificate 1994

#### JOHNSON, RYAN

Area Coordinator, Cody Hall, 1998 Northwest College, AS 1995 University of Wyoming, BS 1998

#### KEIL, BILL

Director of Computer Services, 1994 Montana State University, BS 1968

#### KELLEY, KATHLEEN

Grants Writer, 2000 Belmont College, BS 1979 Nova University, MBA, 1984

#### KELSAY, DENISE

Assistant to the Art Department/Galleries Director, 1995 Northwest College, AAS 1988

#### KUBA, BILL

Director of Enrollment Services, 2001 Tabor College, BA 1973 Whitworth College, MA 1983 Montana State University, EdD, 1998

#### LAIRD, KATHY

Counselor, 2000 College of Santa Fe, BA 1990 University of New Mexico, MA 1994

#### METTES, RIK

Farrier, 1991 Eastern Montana College, AA 1991

#### MILLS, DEB

Director of Student Success Programs, 2001 Austin Peay State University, BS 1977

#### 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

#### 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

#### 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

#### SZATKOWSKI, GARY

Network Manager, 1996

#### 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

#### 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

#### WOOD, KASHA

Interim Area Coordinator, Bridger Hall, 2000 University of Wyoming, BA 2001

## Classified Support Staff

#### ANDERSON, GARY

HVAC/Maintenance Assistant, 2000

#### ARGENTO, LARRY

Carpenter/Maintenance Assistant, 1989 University of Wyoming, BA 1967

#### BAILEY, SHARON

Mathematics Technician, 1980 University of Montana, BA 1969

#### 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

#### 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

#### BRISENO, EVELYN

Child Care Aide, 1987

BUCHLI, AUDREY

Assistant Director of Child Care Center, 1983 National Credentialing Program, Certificate 1979

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

DEARCORN, CASEY

Computer Support Specialist, 2000

FULBRIGHT, KAREN

Enrollment Services Technician, 1998

GASAWAY, TRACY

Payroll/Benefits Manager, 1998

GORMLEY, JANICE

Secretary, Communication Division, 2000

GREENWALD, JEANNE

Office of Instruction Assistant, 1993

Northwest College

HERNANDEZ, LYDIA

Enrollment Services Technician, 1992

HIEB, VALERIE

Custodian, 1985

HORTON, SCOTT

Instructional Technology Coordinator, 1976-1997; 2000 Montana State University, BS 1974

JACOBS, DEBBIE

Secretary, Student Development Center, 1984-87; 1992

JAMES, BEVERLY

Bookstore Assistant, 1998

KASINGER, CLINT

Computer Support Specialist, 1999

KAUFMAN, THOMAS

Photography Lab Technician, 1993 Northwest College, AAS 1992, AAS 1993

KELLY, DEBRA

Library Assistant, Serials/Government Documents/ Interlibrary, 1983-88; 1996 Northwest College, Certificate 1974 Montana State University, Billings, BS 1977

KOBBE, DENISE

Secretary, Health, Outdoor, and Physical Education/Athletics, 2000

KOPRIVA, JAMES

Campus Watchperson, 1995 Northwest College, AA 1961 Wyoming Law Academy, Diploma 1968

University of Virginia-FBI Academy, Diploma 1978

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, Communication Division, 1992 Northwest College, AAS 1992

LINVILLE, SANDRA

Custodian, 2001

MARGARGAL, CHARLENE

Assistant Director of the Bookstore, 2000 University of Louisville, BA 1986

MARKSBURY, SHERRI

Accounts Receivable Clerk, 2001 National University, BA 1997

MARMAN, KIMBERLY

Secretary, Workforce Alliance, 1995-99; 2000 Northwest College, AS 1992 Montana State University–Billings, BS 1995

, ,

MARTIN, DIANE

Library Assistant, Reference, 1988 Millersville University, BS 1969 University of Arizona, MA 1997

McNULTY, DULCIE

Business Office Coordinator, 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

NEWTON, BERTA S

Custodian, 1995

Northwest College, AA 1980

Rocky Mountain College-Billings, BA 1982

OLBERDING, CANDY

Biology Lab Assistant, 1996

Veterinary Technician Institute of Minnesota

OLSON, OLIN

Carpenter/Maintenance Assistant; Locksmith, 1990

PALAN, DIANE

Administrative Secretary, Office of Student Services, 1977

PEABODY, SHARON

Business Office Assistant, 2000

PINEGAR, JOHN

Utility Worker, 2000

PINKERTON, LYNN Computing Services Coordinator. 2000

POWERS, CAROL

Custodian 1979

RAGSDALE, THERMAN

Utility Worker, 2000

RENAUD, FRED

Bus Driver/Shop Assistant, 1992 Northwest College, AS 1991 RODRIGUEZ, BECKI

Administrative Secretary, Office of Instruction, 1985-86; 1993 Northwest College

DeVry Institute of Technology

SAPP, TOBY

Child Care Aide, 1997

SCHATZ, GARNET

Library Assistant, Evening/Weekend Supervisor, 1997

SCHULLER, NANCY

Printing Services Technician, 1987 Northwest College, AAS 1986

SEVEREIDE, DEBBIE

Clinic Nurse, 1993

Northern Montana College, LPN 1972

SMITH, CAREI

Development Technician/Bookkeeper, 1996

SPERRY, PAM

Secretary, Physical Plant, 2001

SPOMER, LINDA

Accounts Payable Clerk, 1981

TIMMONS, TERRI

Secretary, Humanities Divison, 1997 Northwest College, AA 1972 Brigham Young University, BA 1975

VELAND, JOYCE

Secretary, Visual and Performing Arts Division, 1998

WILLIAMS, CARLENE

Assistant Director of Financial Aid, 1984 Northwest College, AAS 1985

ZAWACKI, CAROL

Coordinator, Tutoring Services, 1999

# Northwest College Foundation

#### NELSON, DICK

President

#### FRISBY, ROBERT

Vice President

#### EDMONDS, DUANE

Second Vice President

#### BONNER, DAVE

Secretary

#### BRUMAGE, ESTHER

Assistant Secretary

#### ROBIRDS, HAROLD

Treasurer

#### JONES, ALAN

Assistant Treasurer

Bonner, Brad – Powel

Bonner, Brad - Powell Boydston, Marinell - Cody Copenhaver, Tracy - Powell DeWitt, Josephine - Powell Feinerman, Frances, ex-officio – Powell Fenimore, Shirley – Cody Gose, Bob – Powell Hopkin, Fred - Cody Frisby Hedderman, Gloria - Powell Kearns, Roger - Cody Knutson, Maurice - Powell Lee, Bryan - Frannie Linton, H.A. "Bud" - Powell  $Linton, \\Jim-Powell$ McCarty, Darlene - Cody McDonald, Willis - Cody Nelson, R.A. - Powell Nott, Ray - Powell Orendorff, SinClair - Powell Paul, Ernie - Powell Price, William - Cody Rodriguez, Paul - Powell Rohrbach, Bill - Cody Rhiner, John - Cody Riley, Victor - Cody Sheets, William – Cody Thomas, Cyndy – Meeteetse

Turnell, Jack – Meeteetse Webster, Charles – Powell Wilder, Dick – Cody

## Northwest College Alumni Association

**BELL, JAMES** ('87) – Cody, Wyo. President

HOFFMAN, JASON ('91) – Powell, Wyo. Vice President/President-elect

CUMMINS, CLAYTON ('61) – Billings, Mont.

Adkins, Toni (Roberts) ('92) - Cody, Wyo. Battershell, Jim ('60) - Powell, Wyo. Bennion, Lynn (Hopkin) ('72) - Powell, Wyo. Cozzens, Jeannine (Orendorff) ('69) - Billings, Mont. Graham, Tim ('71) - Basin, Wyo. Hammond, Ruth ('79) - Lovell, Wyo. Kiefer, Jan (Littlehales) ('71) - Ten Sleep, Wyo. Kloster, Larry ('74) - Casper, Wyo. Northrup, Astrid ('84) – Powell, Wyo. Palmer, Hugh ('67) - Sundance, Wyo. Singer, Tom ('73) - Billings, Mont. Starcevich, Angela (Novokovich) ('85) - Powell, Wyo. Terry, Gail ('76) - Cody, Wyo. Troxel, Jeff ('80) - Cody, Wyo. Veile, David ('63) - Worland, Wyo. Wambeke, Ted ('79) - Cody, Wyo.

Webster, Brian ('84) – Meeteetse, Wyo.

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## Courses Meetina General Education Requirements

#### **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 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

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)

BUSN 2000-Introduction to International Business (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)\*

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HUMN 2460-Field Studies: (1-3) [HUMN 2460
     Field Studies: (1-3) might not be
     accepted for transfer by senior
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institutions.] MUSC 1000—Introduction to 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.

#### SOCIAL SCIENCE

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

#### 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 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)

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.\* Activitybased courses include the following:

PEAC courses

PEAT courses

OEAC courses

Dance courses\*\* with a physical education activity designator [PEAC] (one credit only)

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OEPR 1100-Introduction to Adventure
      Education (one credit only)
OEPR 1250—River Studies (one credit only)
OEPR 1200-Winter Outdoor Survival
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\* 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.

#### **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 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)

## 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)

☐ Fall ☐ Spring
English\_\_\_\_

Math\_\_\_

Reading \_\_\_\_\_

# Associate of Arts Degree Worksheet

## **GENERAL STUDIES**

CREDITS EARNED					
Semester	Total				

Studer	nt				Date		_
Only college-leve	el courses count toward this c	degree. At least 6	4 total credits	are required. See pag	es 25-28 in the 2001-2002	catalog for more	details.
GENERAL EDUCATION 1	REQUIREMENTS	Course Number		Course Name		Semester Scheduled	Credits Earned
GOVERNMEN'	$\Gamma$ — 3-6 credits						
(POLS 1000, or HIST 1210 & H If taking the two hist		ory courses may app	oly toward the so	cial science requirement.			
ENGLISH — 6	credits						
ENGL 1010 and	one of the following						
	IGL 2010, ENGL 2017, or E the taken concurrently.	ENGL 2030)					
MATHEMATIC	CS — 3 credits						
(MATH or STAT	7 1000 level or above except	MATH 1510)					
SCIENCE (Lab)	— 4 credits						
HUMANITIES							
(Six credits to be	ARTS — 9 credits selected from one area						
and three credits	from the other)						
SOCIAL SCIEN	ICE — 6 credits						
MULTI-CULTU							
AWARENESS - (may apply 3 cree	— 6 credits dits to Social Science, sual & Performing Arts)				<del></del>		
Humanities or Vi	sual & Performing Arts)						
WELLNESS ED	DUCATION – 2 credits						
				GENI	ERAL EDUCATION T	OTAL (36-42)	
CAPSTONE CO	DURSE						
		TRANS	FER & GEN	NERAL ELECTIVE	<u>s</u>		
Course Number	Course Name	Semester Scheduled	Credits Earned	Course Number	Course Name	Semester Scheduled	Credits Earned
						TOTAL	
Advisor's name				Office	Phone		

☐ Fall ☐ Spring
English\_\_\_\_
Math\_\_\_
Reading \_\_\_\_

# Associate of Arts Degree Worksheet

CREDITS EARNED					
Semester	Total				

Studen	t				Date		_
Specia	lization area						
Only college-level o	courses count toward this d	egree. At least 6	64 total credits	s are required. <b>See pag</b>	es 25-28 in the 2001-200	2 catalog for more	e detail
GENERAL EDUCATION RI	EQUIREMENTS	Course Number		Course Name		Semester Scheduled	Creo Earı
GOVERNMENT	— 3-6 credits						
(POLS 1000, or H HIST 1210 & HIS If taking the two history	,	ry courses may ap	ply toward the so	ocial science requirement.			
ENGLISH — 6 cr							
	ne of the following EL 2010, ENGL 2017, or El taken concurrently.	NGL 2030)					
MATHEMATICS	— 3 credits						
	.000 level or above except l	MATH 1510)					
SCIENCE (Lab) –	— 4 credits						
HUMANITIES an PERFORMING A (Six credits to be se and three credits fro	RTS — 9 credits elected from one area						
SOCIAL SCIENC	E — 6 credits						
MULTI-CULTUR AWARENESS — (may apply 3 credit Humanities or or V	6 credits s to Social Science,						
WELLNESS EDU	JCATION – 2 credits						
CAPSTONE COU	URSE			GENI	ERAL EDUCATION T	TOTAL (36-42)	
		CORE	& CORE EI	LECTIVE COURSE	S		
Course Number	Course Name	Semester Scheduled	Credits Earned	Course Number	Course Name	Semester Scheduled	Cred: Earn
		TRANS	SFER & GEI	NERAL ELECTIVE	S		
Course	Course Name	Semester	Credits	Course Number		Semester	Cred
Number	Course Name	Scheduled	Earned	Number -	Course Name	Scheduled	Earn
						TOTAL	
Advisor's name				Office	Phone		

☐ Fall	☐ Spring
English	
Math	
Reading	S

# **Associate of Science Degree Worksheet**

CREDITS EARNED						
Semester	Total					

	nt						-
_	alization area courses count toward this d					2 catalog for more	e details.
						G v	
GENERAL EDUCATION R	REQUIREMENTS	Course Number		Course Name		Semester Scheduled	Credits Earned
GOVERNMENT	— 3-6 credits						
(POLS 1000, or H or HIST 1210 & If taking the two histo	,	ry courses may app	oly toward the se	ocial science requirement.			
ENGLISH — 6 c	redits						
ENGL 1010 and o	one of the following						
,	GL 2010, ENGL 2017, or Electric etaken concurrently.	NGL 2030)					
MATHEMATICS (MATH or STAT	S — 3 credits 7 1000 level or above except	 pt MATH 1510					
SCIENCE (Lab)	— 4 credits						
VISUAL & PERI	CE, HUMANITIES and FORMING ARTS pose 2 different fields)						
WELLNESS ED	UCATION – 2 credits						
				GENI	ERAL EDUCATION T	TOTAL (24-27)	
CAPSTONE CO	URSE						
		CORE	& CORE E	LECTIVE COURSE	<u>s</u>		
Course Number	Course Name	Semester Scheduled	Credits Earned	Course Number	Course Name	Semester Scheduled	Credits Earned
					· C		
Course		Semester	Credits	NERAL ELECTIVE  Course	<u></u>	Semester	Credits
Number	Course Name	Scheduled	Earned	Number	Course Name	Scheduled	Earned
						TOTAL	
Advisor's name _				Office	Phone		

☐ Fall ☐ Spring
English\_\_\_\_
Math\_\_\_
Reading \_\_\_\_

# Associate of Applied Science Degree Worksheet

CREDITS EARNED							
Semester	Total						

Stude	ent				Date		
	ee area						
Only college-leve	el courses count toward this a	legree. At least 6	4 total credits	are required. <b>See pa</b> į	ges 25-28 in the 2001-200	)2 catalog for more	details.
GENERAL EDUCATION	REQUIREMENTS	Course Number		Course Name	÷	Semester Scheduled	Credits Earned
GOVERNMEN	T — 3-6 credits						
(POLS 1000, or or HIST 1210 & If taking the two his		ory courses may app	ly toward the so	cial science requirement.			
ENGLISH/BUS COMMUNICA	INESS TION — 6 credits						
ENGL 1010 and	one of the following				<del></del> .		
	NGL 2010, ENGL 2017, ENC be taken concurrently.	GL 2030, or BAD	OM 1020)				
MATHEMATIC							
(Any college leve	el math or BADM 1005 or M	IATH 1510)					
	CE, LAB SCIENCE, and VISUAL &						
PERFORMING	ARTS — 6 credits (choose	e at least 2 areas)	)				
WELLNESS EI	OUCATION – 2 credits						
,, 222, (200 21	2 010 011 101 (						
				GEN	ERAL EDUCATION	ГОТАІ. (20-23)	
CAPSTONE CO	DURSE			021		( <b>= v = v</b> )	
		CORE					
Course		Semester Semester	Credits	Course	<u>ES</u>	Semester	Credits
Number	Course Name	Scheduled	Earned	Number	Course Name	Scheduled	Earned
Course		Semester		ELECTIVES		Compostor	Cuadita
Course Number	Course Name	Scheduled	Credits Earned	Course Number	Course Name	Semester Scheduled	Credits Earned
						<del></del>	
						TOTAL	
				0.40			
Advisor's name				Office	Phone		