

# CATALOG

2017-2018



North Idaho College

Campus Switchboard and General Info .....	769-3300	Help Desk (Information Technology) .....	769-3280
Aerospace Center of Excellence .....	769-7802	Human Resources .....	769-3304
Academic Divisions		ICE Healthcare Partnership .....	625-2307
Business and Professional Programs .....	769-3226	Information Technology .....	769-3230
College Skills .....	769-3327	International Student Advisor .....	769-7713
Communication and Fine Arts .....	769-3276	Instruction .....	769-3305
English and Humanities .....	769-3394	Landscape Services/Facilities .....	769-5904
Health Professions and Nursing .....	676-7132	Library .....	769-3355
Math, Computer Science, and Engineering .....	665-4521	Lost and Found .....	769-3310
Natural Sciences .....	769-3495	Mail Center .....	769-3225
PE, Dance, and Resort/Recreation Management .....	769-3409	Nursing .....	769-3329
Social and Behavioral Sciences .....	769-7782	Outdoor Pursuits .....	769-7809
Trades and Industry .....	769-3433	Parking Services .....	769-5902
Admissions .....	769-3311	Peer Tutoring .....	769-3206
Adult Education Center .....	665-5099	Physical Plant/Facilities .....	769-3413
Advising .....	769-7821	President's Office .....	769-3303
Alumni Association .....	769-7806	Career and Technical Education	
American Indian Student Advisor .....	769-3365	Business and Professional Programs .....	769-3226
Associated Students of NIC (ASNIC) .....	769-7761	Health Professions and Nursing .....	769-3481
Athletics .....	769-3348	Student Support Services .....	769-5979
Auxiliary Enterprises .....	769-5913	Trades and Industry .....	769-3433
Bookstore .....	769-3364	Recreational Sports .....	769-3299
Bonnars Ferry Center .....	267-3878	Registrar's Office .....	769-3320
Business Office .....	625-2304	Residence Hall .....	769-5932
Cardinal Card .....	625-2339	Sandpoint Center (NIC at Sandpoint) .....	263-4594
Career Services .....	769-7821	Schuler Performing Arts Center .....	769-3424
Center for New Directions .....	769-3445	Security/Emergency .....	769-3310
Children's Center .....	769-3471	Sentinel (Student Newspaper) .....	769-3388
College Skills Center/Peer Tutoring .....	769-3327	Silver Valley Center .....	783-1254
Communications and Marketing .....	769-7764	Student Accounts (Payments) .....	769-3344
Community Education (Workforce Training) .....	769-3333	Student Activities (ASNIC) .....	769-7761
Community and Governmental Relations .....	769-3316	Student Services .....	769-7863
Computer Lab (Library) .....	769-3251	Testing Center .....	676-7207 or 676-7203
Conferencing and Campus Events .....	769-3361	Therapeutic Counseling .....	769-3362
Copy Center (Staff and Faculty) .....	769-3357	Veterans Services .....	769-3281
Center for New Directions .....	769-3445	Workforce Training Center .....	769-3333
Custodial .....	769-5903		
Development (NIC Foundation) .....	769-5978	Admissions Office .....	admit@nic.edu
Dining Services .....	769-3359	Advising .....	advising@nic.edu
Disability Support Services .....	769-5947	Alumni Office .....	alumni@nic.edu
Dual Credit (High School Students) .....	625-2329	Bookstore .....	bookstore@nic.edu
eLearning .....	665-5095	Career Services .....	career@nic.edu
Emergency .....	9 1 1	Financial Aid Office .....	financial_aid@nic.edu
Emery's Restaurant .....	769-7763	Foundation .....	foundation@nic.edu
Enrollment Services .....	769-7733	eLearning .....	elearning@nic.edu
Facilities .....	769-3413	Housing .....	housing@nic.edu
Financial Aid .....	769-3368	Molstead Library .....	library@nic.edu
Fleet Services .....	769-3309	Registrar's Office .....	registration@nic.edu
GED .....	665-5099	Testing Center .....	testingcenter@nic.edu
Grants Coordinator .....	769-5978		
Gymnasium .....	769-3348		
Health Professions .....	676-7132		
Health Services and Therapeutic Counseling .....	769-7818		

North Idaho College is committed to its policy of nondiscrimination on the basis of race, color, religion, national origin, gender, age, disability, pregnancy, sexual orientation, or status as a Vietnam-era veteran. This policy applies to education programs, services, and facilities, and includes, but is not limited to, admissions, employment, and access to programs and services.

## BOARD OF TRUSTEES

**Ken Howard, Chair**

**Judy Meyer, Vice Chair**

**Christie Wood, Secretary/Treasurer**

**Todd Banducci, Trustee**

**Brad Murray, Trustee**

## PRESIDENT

**Richard MacLennan, Ed.D**

## NIC VISION, MISSION, AND VALUES STATEMENTS

### VISION:

As a comprehensive community college, North Idaho College strives to provide accessible, affordable, quality learning opportunities. North Idaho College endeavors to be an innovative, flexible leader recognized as a center of educational, cultural, economic, and civic activities by the communities it serves.

### MISSION:

North Idaho College meets the diverse educational needs of students, employers, and the northern Idaho communities it serves through a commitment to student success, educational excellence, community engagement, and lifelong learning.

### VALUES:

North Idaho College is dedicated to these core values which guide its decisions and actions.

#### Student Success

A vibrant, lifelong learning environment that engages students as partners in achieving educational goals to enhance their quality of life.

#### Educational Excellence

High academic standards, passionate and skillful instruction, professional development, and innovative programming while continuously improving all services and outcomes.

#### Community Engagement

Collaborative partnerships with businesses, organizations, community members, and educational institutions to identify and address changing educational needs.

#### Stewardship

Economic and environmental sustainability through leadership, awareness, and responsiveness to changing community resources.

#### Diversity

A learning environment that celebrates the uniqueness of all individuals and encourages cultural competency.

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- Important Dates
- Holidays
- Advising/Curriculum Days

# College Calendar 2017-2018

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## May 2017

- 1 Priority deadline to apply for Fall Semester 2017 graduation.
- 4 Last day of regular Spring Semester classes.
- 5 Curriculum Day.** Classes that meet at 4 p.m. or later are in session.
- 8-11 Final exams.
- 8-12 Spring Semester textbook buy back at the Mica Peak Exchange bookstore.
- 11 Spring Semester ends.
- 12 Commencement** 10 a.m.
- 15 Four-week and eight-week career and technical education Summer Sessions begin.
- 16 Spring Semester final grades due by 10 a.m.
- 29 Memorial Day.** Campus closed.
- 31 Summer Session textbooks available.
- 31 Summer Session financial aid charges begin.

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## June 2017

- 1-6 Summer Session financial aid charges continue through 5 p.m. June 6 at the Mica Peak Exchange bookstore.
- 1 Admission application deadline** 5 p.m. for Summer Session.
- 4 Payment due for students registered for Summer Session.
- 5 Summer Session begins.**
- 5** Payment required at time of registration or when Summer Session begins.
- 5-6 Summer Session course add/drops.
- 6 Summer Session financial aid charges end at 5 p.m. at the Mica Peak Exchange bookstore.
- 7-13 Summer Session course drops continue.
- 9 Four-week career and technical education Summer Session ends.
- 12 Attendance rosters for Summer Session course sections due by 10 a.m.
- 13 Drop for non-attendance of Summer Session course sections.
- 13 Last day for 100 percent refund for Summer Session.
- 14 Summer Session course drops with a grade of W begins.
- 16 First Summer Session financial aid disbursement.

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## July 2017

- 1 Textbooks available for Fall Semester.
- 3 Last day to withdraw from Summer Session or from college.
- 4 Independence Day.** Campus closed.
- 7 Eight-week career and technical education Summer Session ends.
- 14 Second Summer Session financial aid disbursement.
- 17 Carpentry Summer Session begins.
- 28 Summer Session ends.

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## August 2017

- 7 Fall Semester financial aid charges begin and continue through 2:30 p.m. Oct. 27 at the Mica Peak Exchange bookstore.
- 10 Admission application deadline** 5 p.m. for Fall Semester.
- 10 Carpentry Summer Session ends.
- 15 Faculty return to campus.
- 15 Carpentry Summer Session final grades due by 10 a.m.
- 16 Housing and tuition charges due by 5 p.m. for students residing in the Residence Hall.
- 20 Payment due for students registered for Fall Semester.
- 21 Fall Semester begins.**
- 21 Payment required at time of registration.
- 21-22 Summer Session textbook buy back at the Mica Peak Exchange bookstore from 8 a.m. to 4 p.m.
- 21-27 Fall Semester course add/drops.
- 27 Payment plan registration ends.
- 28-31 Fall Semester course drops continue.

-  Important Dates
-  Holidays
-  Advising/Curriculum Days

# College Calendar 2017-2018

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## September 2017

- 1-5 Fall Semester course drop continue.
  - 1 Attendance rosters for Fall Semester course sections due by 10 a.m.
- 4 Labor Day.** Campus closed.
- 5 Drop for non-attendance of Fall Semester course sections.
  - 5 Last day to receive 100 percent refund for Fall Semester 2017.
- 6 Fall Semester course drops with a grade of W begin.
- 8 First Fall Semester financial aid disbursement.

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## October 2017

- 1 Financial Aid FAFSA forms available online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) for 2018-2019.
- 2 Incomplete grades due for 2017 Spring Semester and Summer Session.
- 9-13 Fall Semester midterm exams.
- 17 Fall Semester midterm grades due by 10 a.m.
- 24 Advising Day.** Classes that meet at 4 p.m. or later are in session.
- 27 Fall Semester financial aid charges end at 2:30 p.m. at the Mica Peak Exchange bookstore.
- 30 Registration begins for continuing students for Spring Semester.

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## November 2017

- 1 Priority deadline to apply for Spring Semester 2018 graduation.
- 3 Registration begins for continuing dual credit students for Spring Semester.
- 3 Second Fall Semester financial aid disbursement.
- 3 Last day to withdraw from full-semester Fall Semester courses or college.
- 6 Registration begins for former students for Spring Semester.
- 13 Registration begins for new students including dual credit and non-degree for Spring Semester.
- 22-24 Thanksgiving Holiday.** Campus closed.

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## December 2017

- 1 Textbooks available for Spring Semester.
- 7 Last day of regular Fall Semester classes.
- 8 Curriculum Day.** Classes that meet at 4 p.m. or later are in session.
- 11-14 Fall Semester textbook buy back at the Mica Peak Exchange bookstore.
- 11-14 Final exams.
- 14 Admission application deadline** 5 p.m. for Spring Semester.
- 14 Fall Semester ends.
- 19 Fall Semester final grades due by 10 a.m.
- 25 Christmas Day.** Campus closed.
- 26-31 Holiday Break.** Campus closed.

-  Important Dates
-  Holidays
-  Advising/Curriculum Days

# College Calendar 2017-2018

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## January 2018

- 1 New Year's Day.** Campus closed.
- 2 Spring Semester financial aid charges begin and continue through 2:30 p.m. March 16 at the Mica Peak Exchange bookstore.
- 2 Faculty return to campus.
- 3 Housing and tuition charges due by 5 p.m. for students residing in the Residence Hall.
- 7 Payment due for students registered for Spring Semester.
- 8 Spring Semester begins.**
- 8 Payment required at time of registration.
- 8-14 Spring Semester course add/drops.
- 14 Payment plan registration ends.
- 15 Martin Luther King, Jr. Holiday.** Campus closed.
- 15-23 Spring Semester course drops continue.
- 22 Attendance rosters for Spring Semester course sections due by 10 a.m.
- 23 Drop for non-attendance of Spring Semester course sections.
- 23 Last day for 100 percent refund for Spring Semester.
- 24 Spring Semester course drops with a grade of W begins.
- 26 First Spring Semester financial aid disbursement.

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## February 2018

- 19 Presidents' Day.** Campus closed.
- 20 Incomplete grades due for Fall Semester 2017.
- 26-28 Spring Semester midterm exams begin.

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## March 2018




- 1 Priority deadline to apply for Summer Session 2018 graduation.
- 1 Scholarship application priority deadline.
- 1-2 Spring Semester midterm exams continue.
- 6 Spring Semester midterm grades due by 10 a.m.
- 16 Spring Semester financial aid charges end at 2:30 p.m. at the Mica Peak Exchange bookstore.
- 23 Second Spring Semester financial aid disbursement.
- 23 Last day to withdraw from full-length Spring Semester courses or college.
- 26-30 Spring Break.** Classes not in session.

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## April 2018

- 5 Advising Day.** Classes that meet at 4 p.m. or later are in session.
- 5 Registration begins for continuing students for Summer Session.
- 6 Registration begins for continuing dual credit students for Summer Session.
- 9 Registration begins for continuing students for Fall Semester.
- 13 Registration begins for continuing dual credit students for Fall Semester.
- 16 Registration begins for former students for Summer Session and Fall Semester.
- 23 Registration begins for new students including dual credit and non-degree for Summer Session and Fall Semester.

# College Calendar 2017-2018

-  Important Dates
-  Holidays
-  Advising/Curriculum Days

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## May 2018

- 1 Summer Session textbooks available.
- 1 Priority deadline to apply for Fall Semester 2018 graduation.
- 3 Last day of regular Spring Semester classes.
- 4 Curriculum Day.** Classes that meet at 4 p.m. or later are in session.
- 7-10 Final exams.
- 7-11 Spring Semester textbook buy back at the Mica Peak Exchange bookstore.
- 10 Spring Semester ends.
- 11 Commencement** 10 a.m.
- 14 Four-week and eight-week career and technical education Summer Sessions begin.
- 15 Spring Semester final grades due by 10 a.m.
- 21 Summer Session financial aid charges begin.
- 28 Memorial Day.** Campus closed.
- 31 Admission application deadline** 5 p.m. for Summer Session.

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## June 2018

- 1-30 Summer Session financial aid charges continue through 5 p.m. July 2 at the Mica Peak Exchange bookstore.
- 3 Payment due for students registered for Summer Session.
- 4 Summer Session begins.**
- 4** Payment required at time of registration.
- 4-5 Summer Session course add/drops.
- 6-12 Summer Session course drops continue.
- 8 Four-week career and technical education Summer Session ends.
- 11 Attendance rosters for Summer Session course sections due by 10 a.m.
- 12 Drop for non-attendance of Summer Session course sections.
- 12 Last day for 100 percent refund for Summer Session.
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## July 2018

- 2 Summer Session financial aid charges end at 5 p.m. at the Mica Peak Exchange bookstore.
- 2 Last day to withdraw from Summer Session or from college.
- 4 Independence Day.** Campus closed.
- 6 Eight-week career and technical education Summer Session ends.
- 11 Second Summer Session financial aid disbursement.
- 16 Carpentry Summer Session begins.
- 27 Summer Session ends.
- 31 Final grades for Summer Session due by 10 a.m.

## ABOUT NORTH IDAHO COLLEGE

Founded in 1933, North Idaho College is a comprehensive community college located on the beautiful shores of Lake Coeur d'Alene. NIC offers degrees and certificates in a wide spectrum of academic transfer, career and technical education, and general education programs. Approximately 5,300 students are enrolled in credit classes and more than 4,300 participate annually in non-credit courses offered by the Workforce Training Center in Post Falls.

The college serves a five-county region through regional centers in Bonners Ferry, Kellogg, and Sandpoint, as well as through an extensive array of Internet and interactive video conferencing courses. NIC also plays a key role in the region's economic development by preparing competent, trained employees for area businesses, industries, and governmental agencies.

NIC's campus is located in Coeur d'Alene, Idaho, a lakeside city with a growing population of 44,000 residents. Metropolitan amenities are close by with Spokane, Washington, a city of approximately 208,000 just 30 minutes away.

NIC offers Associate of Arts and Associate of Science Degrees in various college transfer programs, and Associate of Applied Science Degrees and technical certificates in its career and technical education programs.

Students obtaining an Associate of Arts or Associate of Science Degree can transfer with junior standing to all other Idaho public colleges and universities.

As one of three community colleges in the state (the other two being College of Southern Idaho and College of Western Idaho), North Idaho College works closely with its sister colleges and universities. NIC partners with the University of Idaho, Lewis-Clark State College, Boise State University, and Idaho State University to enhance the higher education opportunities available in North Idaho.

## ACCREDITATION

North Idaho College is accredited by the Northwest Commission on Colleges and Universities, an institutional accrediting body recognized by the Secretary of the U.S. Department of Education. Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Several of NIC's programs are also accredited by program accrediting agencies. The Associates Degree Nursing program is accredited by the Accreditation Commission for Education in Nursing (ACEN). The Radiography Technology program is accredited by the Joint Review Committee on Education in Radiological Technology (JRCERT). The Medical Assistant program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP/MAERB). The Pharmacy Technology program is accredited by the American Society of Health-System Pharmacists (ASHP). The Physical Therapist Assistant program is accredited by the Commission on Accreditation in Physical Therapist Education (CAPTE).

## HISTORY

North Idaho College was first known as Coeur d'Alene Junior College, a private school that was started in 1933 and operated for six years. The state legislature passed the Junior College Act in January 1939, which permitted qualified areas to establish junior college districts by a vote of eligible electors. Coeur d'Alene Junior College became North Idaho Junior College in June of 1939. On July 31, 1971, the college changed its name to North Idaho College. NIC's service area is the Idaho Panhandle, which includes Kootenai, Benewah, Bonner, Shoshone, and Boundary counties.

## OPEN-DOOR POLICY

NIC subscribes to the philosophy of the comprehensive community college, including an open-door admissions policy. To truly reflect its role as a community college, NIC accepts the fundamental responsibility to meet the varying needs of individuals with widely divergent interests and abilities. At the same time, NIC seeks to respond to the needs of area businesses, industries, and governmental agencies by preparing competent, trained employees.

The commitment to an open-door admissions policy is defined as providing all eligible students with access to appropriate educational offerings at the college. NIC enrolls students seeking a post-secondary education, but reserves the right to guide students into the courses and programs that will enhance their opportunities for success.

Certain designated courses of study have special requirements for admission. The college tests and evaluates entering students to place them in the appropriate level courses.

## COMMUNITY SERVICES

As a community college, North Idaho College strives to provide a quality educational environment and serve area residents through involvement in the community. Both goals are vitally important to NIC and have resulted in a wide variety of educational offerings, programs, and services designed for the college community at large.

Concerts, theatrical productions, athletic competitions, convocation programs, information sessions, and other events are offered to encourage community participation and involvement. Special courses, programs, and workshops are offered to meet the varied interests of individuals and community groups.

A Senior Citizens Gold Card allows individuals 60 years of age and older to attend NIC-sponsored athletics and arts events free of charge. Gold Cards are available through the NIC Communications and Marketing Office.

## CARDINAL CARD

The Cardinal Card Office is located in the plaza of the Edminster Student Union Building. All students and employees at North Idaho College and NIC-supported outreach centers are issued a Cardinal Card. This card serves as the college's official student/employee photo ID and should be carried at all times and made available to Campus Security upon request. The Cardinal Card is a multi-functional card used for electronic access to buildings/rooms and access to services in departments across campus. This



card is used for identification, residence hall meal programs, financial aid verification, bookstore purchases, library services, printing services, access to student programming, Outdoor Pursuit rentals, and admission to athletics events and the computer lab. In addition, Cardinal Cash can be added to the Cardinal Card. Cardinal Cash is a prepaid, declining balance account similar to a debit card. This allows flexible spending options for bookstore, printing, and dining services purchases. Lost, stolen, or damaged Cardinal Cards are \$20 to replace.

### NIC FOUNDATION

The North Idaho College Foundation was founded in 1977 to encourage private support for the instructional mission of North Idaho College. The NIC Foundation is an independent, nonprofit charitable organization governed by a volunteer board of directors comprised of civic-minded community leaders.

The NIC Foundation works closely with the NIC trustees, the president, and college employees to secure support for various needs of the college. The foundation solicits, accepts, and manages both cash and non-cash gifts on behalf of NIC and invests and administers those funds to provide a source of financial support for the college.

Through contributions from donors of all walks of life, the NIC Foundation is helping to change lives. Student success is central to the foundation's efforts. Scholarship awards are nearing \$1 million annually, and \$9.4 million has been distributed to students since 1977. Students are encouraged to apply for scholarship opportunities through the Financial Aid Office. In addition, more than \$20 million has been invested in NIC facilities and expansion, including the Parker Technical Education Center, and the Meyer Health and Sciences Building, and \$1,208,578 has been distributed through the Foundation Grant Program that inspires creative and innovative teaching and support services since 1994.

The foundation raises funds through its annual and planned giving programs, scholarship drive, and community events. The foundation's Really BIG Raffle offers a grand prize of a \$300,000 custom home built by the NIC Carpentry program and more than \$35,000 worth of additional prizes each year.

To make a tax-deductible gift, request additional information, or inquire about charitable giving, go to [www.nic.edu/foundation](http://www.nic.edu/foundation) or call (208) 769-5978.

### NIC ALUMNI ASSOCIATION

The North Idaho College Alumni Association encourages a lifelong interest in the college by its alumni and friends. The association has found that many individuals cherish their experiences and memories of NIC classmates, instructors, and friends and that these remain with them throughout their lifetimes. The NIC Alumni Association provides opportunities for alumni to serve NIC and its students. Membership in the association unites individuals in an organization of thousands of alumni who have chosen to express their active support for the college. Membership is free, and requires completion of at least 12 academic credits or completion of the first semester of a

certificate course or apprenticeship program. You do not need to be a graduate to become a member. Membership benefits include invitations to special events, Molstead Library privileges, eNewsletter subscription, and discounts at the NIC bookstore and home athletics events.

To join, visit [www.nic.edu/alumni](http://www.nic.edu/alumni) or call (208) 769-5978.

The Alumni Office is located in the Sherman Building. Please stop by to visit if you come to campus.

### NIC BOOSTER CLUB

The North Idaho College Booster Club is a nonprofit organization, committed to providing financial support to the intercollegiate athletics programs through fundraising and endowment activities for student-athlete grants-in-aid and team programs.

Organized in the 1960s, the NIC Booster Club supports all NIC athletics teams as a lifelong learning experience that enhances the value of sportsmanship and provides a positive experience for student-athletes, students, and fans. The club also recognizes the commitment our athletes make to the young people of our community through our Cardinal Canine Club, WE Care Program, Cardinal Kids outreach program, the Coeur d'Alene Crossing, and the wrestling team's Shirley Parker Reading Program.

The Booster Club holds fundraising events throughout the year including an annual auction, Hall of Fame and Awards Banquet, 3-on-3 Basketball Tournament, the Idaho State High School All-Star Basketball Game, the Hague Memorial Cardinal Golf Classic, and the Rolly Williams Golf Tournament.

For more information or to become a member, contact the NIC Athletics Office at (208) 769-3348. Booster Club luncheons are held twice monthly throughout the year.

### NIC PUBLICATIONS

Official North Idaho College publications, such as catalogs, brochures, course and fee schedules, etc., are not to be considered as binding contracts between NIC and its students. NIC and its divisions reserve the right to: (a) withdraw or cancel classes, courses, and programs; (b) change fee schedules; (c) change the academic calendar; (d) change admission and registration requirements governing instruction in, and graduation from, the college and its various divisions; and, (e) change any other regulations affecting students. Changes shall be enacted for both prospective and presently enrolled students whenever deemed appropriate. Advance notice of changes will be provided when possible.

### EQUAL OPPORTUNITY EMPLOYMENT

North Idaho College is an equal opportunity employer (EOE). Employment selection and related decisions are made without regard to sex, gender, race, color, age, disability, religion, national origin, ethnicity, sexual orientation, veteran status, or any other protected class.

In accordance with provisions of Idaho Code § 65-503, or its successor, North Idaho College is a veteran preference employer.

**COLLEGE TERMINOLOGY**

*North Idaho College acknowledges Pueblo Community College, Oklahoma State University, and Mr. Bill Etheredge for their contributions to this glossary of college terminology.*

**Academic advisor:** An academic advisor is a faculty member or staff person who is trained to assist students with educational planning and to promote a successful college experience.

**Academic load:** An academic load is the number of credit hours taken in one semester.

**Academic probation:** All colleges require students to maintain a minimum cumulative grade point average (GPA) to remain in school. Students who do not meet the minimum GPA will be placed on academic probation. Refer to the Academic Probation, Suspension, and Disqualification Policy on page 34 for specifics.

**Academic suspension:** Students who do not meet the GPA requirements when on probation will be placed on suspension. Suspension requires a student to sit out one semester, excluding Summer Session, following suspension. In extraordinary cases, students may petition the Admissions and Academic Standards Committee to be granted exemption from suspension. Refer to the Academic Probation, Suspension, and Disqualification Policy on page 34 for specifics.

**Adding a course:** A course that meets the entire Fall or Spring Semester may be added online the first week of the semester. A late-start or Summer Session course may be added through the first two days of the course.

**Address:** *Permanent* - The student's home address. Residency is determined by this address. *Mailing* - The address used by a student while he/she is attending NIC if different from permanent address. *Temporary* - The address used for a short time if the local and permanent addresses are not being used.

**Alumni:** People who have graduated from the institution. A male is called an alumnus, while a female is called an alumna.

**ACT and SAT:** These are acronyms for the American College Test and the Scholastic Aptitude Test. Both tests are designed to measure a student's level of knowledge in basic areas such as math, science, English, and reading. Colleges may require the results of either the ACT or SAT before granting admission. NIC does not require ACT or SAT scores, but these scores may be used to satisfy assessment requirements for initial course placement.

**Associate's degree:** The associate's degree is granted upon completion of a program. Associate of Arts and Associate of Science Degrees are awarded to students who successfully complete programs designed for transfer to a baccalaureate-granting institution. The associate's degree requires completion of a minimum of 60 semester credits of 100 level or above courses with a cumulative GPA of 2.0.

**Associate of Applied Science Degree:** This degree is awarded to students who successfully complete a program designed to lead directly into employment in a specific career. The Associate of Applied Science Degree requires completion of a minimum of 60 semester credit hours with a cumulative GPA of 2.0.

**Audit:** A student who does not want to receive credit or a grade in a course may audit the course. Audited courses will not fulfill graduation requirements and do not affect a student's grade point average. The application process and fees for auditing a course are the same as if a student were enrolling for credit. Course enrollment

may be changed from credit to audit only during the drop/add period. With the instructor's permission, course enrollment may be changed from audit to credit during the first four weeks of the semester or the first two weeks of Summer Session. Audited courses do not apply to credit/course load requirements for financial aid.

**Bachelor's degree** (or Baccalaureate degree): This is the undergraduate degree offered by four-year colleges and universities. The Bachelor of Arts degree requires that a portion of the student's studies be dedicated to the arts - literature, language, music, etc. The Bachelor of Science degree requires that a portion of the studies be in the sciences - chemistry, biology, math, etc. The minimum credit hour requirement for a bachelor's degree is 120 semester hours.

**Blackboard:** Blackboard Learn is an online learning management system. This software is used for delivering Internet courses with features for online collaboration, test-taking, and assignment submission.

**Bookstore:** Bookstores generally stock the books and materials required in all the courses offered at the institution. Bookstores also provide basic items and clothing items.

**Cardinal Card:** The college's official student/employee photo ID. The card also provides access to campus housing access, meal program service, financial aid verification, bookstore purchases, library services, and more. Refer to page 8 for more details.

**Catalog:** College catalogs provide all types of information parents and students need to know about a school. It typically includes the institution's history and philosophy, policies and procedures, accreditation status, courses of study, degrees and certificates offered, physical facilities, admission and enrollment procedures, financial aid, student life activities, etc. They are considered the student's contract with the institution.

**Certificate programs:** Certificate programs are designed to provide specific job skills.

**The College Level Examination Program (CLEP):** This program can be administered to students who desire to obtain college credit by taking proficiency tests in selected courses. If the student scores high enough on the test, college credit may be awarded. There is a charge for each test taken. Information concerning an institution's CLEP test policies can be found in the institution's catalog.

**Concurrent enrollment:** A student who is enrolled at NIC *and* the University of Idaho or Lewis-Clark State College in Coeur d'Alene. Students must submit a concurrent enrollment form to the NIC Registrar's Office for verification of course enrollment.

**Core courses:** These are general education courses within various disciplines that require a C- or better to satisfy the distribution requirements for an associate's degree.

**Corequisite course:** A corequisite is a course that must be taken concurrently with another course or courses unless the corequisite has been previously completed with a minimum grade of C-.

**Counselor:** A counselor is a professional who is trained to assist students in overcoming personal barriers to success.

**Curriculum:** A curriculum is composed of those classes outlined by an institution for completion of a program of study leading to a degree or certificate.

**Degree requirements:** An institution's requirements for completion of a program of study. Requirements may include a minimum number of hours, required GPA, and prerequisite and elective courses within the specified major and/or minor areas of study.

**Degrees:** Degrees are awarded for the successful completion of a program.

**Department:** A department is the basic organizational unit in a higher education institution and is responsible for the academic functions in a field of study. It may also be used in the broader sense to indicate an administrative or service unit of an institution.

**Division:** A division represents a number of different units of a college or university: (1) an administrative division of an institution usually consisting of more than one department; (2) an academic division of an institution based on the year level of students; and (3) a service division of an institution that is composed of a number of service departments, such as the Student Services Division.

**Dropping a course:** A course may be dropped online without a grade of W (withdrawal) being recorded during the 100 percent refund period. A course dropped online after the one-hundred-percent-refund period will be reflected with a grade of W on the official transcript.

**Dual credit:** Dual credit allows eligible high school juniors and seniors to enroll in NIC courses on campus or at their high schools. Credit for both high schools and college may be awarded. Students enrolled in NIC courses will receive an NIC transcript. These credits transfer to many regionally accredited colleges and universities across the nation.

**Elective:** An elective is a course that is not specifically required and may be selected by the student based on personal preference and educational objectives.

**Extra-curricular activities:** These are non-classroom activities that can contribute to a well-rounded education. They can include such activities as athletics, clubs, student government, recreational and social organizations, and events.

**Faculty:** The faculty are the individuals who teach classes.

**Fees:** Fees are additional charges not included in the tuition. Fees may be charged to cover the cost of materials and equipment needed in certain courses and they may be assessed for student events, programs, and publications.

**Final exams (Finals):** These end-of-the-semester exams are either given during the last week of courses each semester or during a specific week called Finals Week. The type of final administered in a course is left to the discretion of the instructor. Final exams given during Finals Week are given on specified dates that may be different than the regular course time and are usually two hours in length. Finals schedules are published online each semester.

**Financial aid:** Aid for paying college expenses is made available from grants, scholarships, loans, and part-time employment from federal, state, institutional, and private sources. Financial aid from these programs may be combined in an "award package" to meet or defray the cost of college. The types and amounts of aid awarded are based on financial need, available funds, student classification, academic performance, and sometimes the timeliness of application.

**Free Application for Federal Student Aid (FAFSA):** This is a qualifying form used for all federal and government guaranteed commercial lenders' programs – as well as many state, regional, and private student aid programs. By filling out the online or paper FAFSA, applicants start the process of qualifying for financial aid.

**Full-time enrollment/Part-time enrollment:** A full-time student is enrolled in 12 or more credit hours per semester. A part-time student is enrolled in less than 12 credit hours per semester.

**Honor roll:** Students are placed on honor rolls for GPAs above certain specified levels. Criteria for President's, Dean's, or other honor rolls vary at different institutions. In most cases, students must be enrolled full time to be eligible.

**Hybrid course:** These courses provide multiple learning environments for interactions among students and instructors. They include required hybrid and face-to-face components. The face-to-face components are reduced, but not eliminated. Note: The hybrid component is technology-based and often consists of web-based instruction requiring the students to have some computer skills.

**Interactive video conference course (IVC):** These courses are delivered to off-campus sites by technology that allows interaction between students and faculty through two-way audio and video.

**Internet course:** Internet courses are delivered through a website.

**Junior/community college:** A junior/community college is often called a two-year institution of higher education. Course offerings generally include a transfer curriculum with credits transferable toward a bachelor's degree at a four-year college, and an occupational or technical curriculum with courses of study designed to prepare students for employment in two years or less.

**Late-start course:** A course that begins after the start of a term or semester.

**Lecture/laboratory/discussion courses:** In lecture courses, students attend class on a regular basis and the instructor lectures on course material. Laboratory courses require students to perform certain functions in controlled situations that help them test and understand what is being taught in the lecture. Discussion courses, sometimes called seminar courses, offer students the opportunity to talk about material being taught, ask questions, and discuss material with their classmates.

**Letter grades/Grade Point Averages (GPA):** Most colleges use both letter grades and GPAs in determining students' grades. Most colleges figure GPAs using the following method: As are worth 4 points; Bs are worth 3 points; Cs are worth 2 points; Ds are worth 1 point; and Fs are worth 0 points. To figure a GPA, multiply the number of credit hours a course is worth by the number of points for the letter grade, then add up the totals for each course and divide by the number of attempted credit hours.

**Major/Minor:** A major is a student's chosen field of study that usually requires the successful completion of a specified number of credit hours. A minor is designated as a specific number of credit hours in a secondary field of study.

**Matriculated/Non-Matriculated (Degree Seeking/Non-Degree Seeking):** Students who are matriculated are working toward a degree or certificate and have completed the admissions process, which includes application, payment of application fee, and provision of high school and/or college transcripts. Matriculated students are eligible to apply for financial aid. Non-matriculated students are not working toward a degree from North Idaho College and are not eligible for financial aid or participation in varsity athletics.

**Mid-term exams:** During the middle of each semester, instructors may give mid-term exams that test students on the material covered during the first half of the semester. Some courses have only two tests, a mid-term and a final.

**Non-credit courses:** Courses that have zero credit hours and do not meet the requirements for a certificate or a degree at a given institution. Non-credit courses may serve one of several purposes: to explore new fields of study, increase proficiency in a particular skill area or profession, develop potential, or enrich life experiences.

**Open-door institution:** Open-door institutions are usually public junior/community colleges. The term “open-door” refers to an admission policy that states that anyone who meets certain age requirements can be admitted. Open-door admissions policies do not mean that students can take any courses that they choose. Students must meet course prerequisites in order to enroll in specific courses.

**Prerequisite:** A prerequisite is a condition that must be met before a student can enroll in a course. This may include, but is not limited to, completion of other courses with a C- or better, acceptance in other programs, sophomore standing, instructor permission, and prescribed test scores. For example, Accounting I is a prerequisite for Accounting II.

**Private/Public institutions:** Private and public institutions differ primarily in terms of their source of financial support. Public institutions receive funding from the state or other governmental entities and are administered by public boards. Private institutions rely on income from private donations, or from religious or other organizations and student tuition.

**Resident/Non-resident status:** The amount of tuition a student pays to a public (state supported) college is determined by the student’s state residence status. If a student is a resident of the state, then the student pays a lower tuition rate. A non-resident will pay a higher tuition rate. Residency requirements vary from state to state, but are determined by the student’s place of residence or his/her parents’ place of residence if the student is younger than a certain age. Tuition rates for private colleges are not based on residency.

**Schedule of classes:** With the help of academic advisors or faculty advisors, students make up their own individual class schedules for each semester they are enrolled. Courses are designated in the online Class Schedule by course department, course number, time and days the course meets, the room number, building name, and the instructor’s name.

**Service Learning:** Service Learning combines academic studies with community service by linking the theory and content of a course with the practical application of the course’s concepts in a community setting. The Service Learning assignment, which is optional, requires 15-20 hours outside the classroom during the semester (in lieu of other course assignments comparable to 15-20 hours). Career exploration may be an added benefit to this type of class.

**Short-term course:** A course that begins at the start of a term or semester and ends early.

**Syllabus:** A course syllabus is a summary of the course. It usually contains specific information about the course; information on how to contact the instructor, including the instructor’s office location and office hours; an outline of what will be covered in the course, with a schedule of test dates and due dates for assignments; the grading policy for the course; and specific classroom rules. It is usually given to each student during the first class session.

**Transcript:** The transcript is a student’s permanent academic record. It may show courses attempted, grades received, academic status, and honors received. Colleges do not release transcripts if

a student owes money to the college. Transcripts are maintained and sent from the Registrar’s Office.

**Transfer of credits:** Some students attend more than one institution during their college careers and will wish for accumulated credit hours from the former institution to transfer to the new one. To transfer credits, a student must have an official transcript sent to the new institution, which will determine which courses will apply toward graduation requirements.

**Tuition:** Tuition is the amount paid for each credit hour of enrollment. Tuition does not include the cost of books, fees, or room and board. Tuition charges vary from college to college and are dependent on such factors as resident or out-of-state status, level of classes enrolled in (lower, upper, or graduate division), and whether the institution is publicly or privately financed.

**Tutors:** A tutor is a person, generally another student, who has completed and/or demonstrated proficiency in a course or subject, and is able to provide instruction to another student. Tutors usually help students better understand course material. At NIC, students may receive two free hours of tutoring per class, per week.

**Undergraduate:** An undergraduate is a student who is pursuing either a certificate, an associate’s or a baccalaureate degree.

**University:** A university is composed of undergraduate, graduate, and professional colleges and offers degrees in each.

**Waitlist:** If a class is full, a student may choose to add themselves to a waitlist for that course section. If a seat becomes available, the student will be added to that course and notified via their Cardinal Mail student email account. Waitlists are active from the time registration for a term begins until the add/drop period ends for that course.

**Web-Enhanced (WEBE):** These courses are conducted face-to-face with online components.



# Important Information for Students

**North Idaho College 2017-2018**

**CONSUMER INFORMATION**

North Idaho College's consumer information provides prospective students, current students, and community members with information about North Idaho College. This information is provided in compliance with the Higher Education Act of 1965 as amended, the Family Educational Rights and Privacy Act, the Student Right to Know Act, the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, the Equity in Athletics Disclosure Act, the Drug Free Workplace Act and the Drug Free Schools and Communities Act. Hard copies are available upon request. Go to [www.nic.edu](http://www.nic.edu) to view all documents.

**STUDENT RECORDS, CONFIDENTIALITY,  
AND FERPA**

The Family Educational Rights and Privacy Act of 1974 (FERPA) requires that North Idaho College adopt guidelines concerning the right of a student to inspect his or her educational record. The information on these pages is designed to assist students in knowing the guidelines and protecting their confidentiality.

**Release of Personally Identifiable Records**

The college does not permit access to or the release of educational records, or personally identifiable information other than "directory information" listed below without the written consent of the student, to any other party other than the following:

- Administrative/support staff and college faculty when information is required for a legitimate educational interest within the performance of their responsibilities to the college, with the understanding that its use will be strictly limited to those responsibilities.
- Federal and state officials requiring access to educational records in connection with the audit and evaluation of a federally- or state-supported educational program or in connection with the enforcement of the federal or state legal requirements which will not permit the personal identification of students and their parents to other than those officials. Such personally identifiable data shall be destroyed when no longer needed for such audit, evaluation, or enforcement of legal requirements.
- Agencies or individuals requesting information in connection with the student's application for, or receipt of, financial aid.
- Organizations conducting studies for, or on behalf of, the college for purposes of developing, validating, or administering predictive tests; administering student aid programs; and improving instruction. Such studies shall be conducted in such a manner that will not permit the personal identification of students by persons other than representatives of such organizations, and such information shall be destroyed when no longer needed for the purposes for which it was provided.
- Accrediting organizations in order to carry out their accrediting functions.
- Any person or entity designated by judicial order or lawfully issued subpoena, upon condition that the college makes a reasonable effort to notify the student of all such orders or subpoenas in advance of the compliance therewith.
- Information from educational records may be released to appropriate persons in connection with an emergency if the

knowledge of such information is necessary to protect the health or safety of a student or other person(s).

**DIRECTORY INFORMATION**

The term "directory information" at North Idaho College is defined as including:

1. Student's name
2. Student's address
3. Student's phone number
4. Email address
5. Dates of attendance
6. Freshman/sophomore classification
7. Previous institutions attended
8. Major field of study
9. Awards/honors (including Dean's List)
10. Degree(s) conferred (including dates)
11. Past and present participation in officially recognized sports and activities
12. Weight and height of members of athletics teams

Students may request through the Registrar's Office that the college not release directory information.

The Registrar's Office will assist students who want to inspect their records. Records covered by FERPA will be made available within 45 days and the college may charge reasonable fees for preparing copies for students. This includes records that are kept in the following offices:

1. Admissions
2. Registrar
3. Financial Aid
4. Veterans Services
5. Student Activities
6. Intercollegiate Athletics
7. Vice President for Student Services

The college reserves the right to have a college representative present during the review of the student's record and the representative may offer interpretation of the data within the record.

Some records may be withheld by the college. For example, academic transcripts are routinely withheld if the student has a financial obligation to the college. Medical records may be released to the student's physician rather than to the student. Students may not inspect financial information submitted by their parents, confidential letters associated with admissions, and records to which they have waived their inspection rights. In the event a record contains information about other persons, the college will release only the portion of the record that pertains to the student.

Finally, the college will not release records that are not owned by the college.

**FAMILY EDUCATIONAL RIGHTS AND PRIVACY  
ACT OF 1974 (FERPA) HEARING PROCESS**

Upon examination of records, a student who believes that his or her record is inaccurate or misleading can request a formal hearing. Requests for a hearing should be directed in writing to the Registrar's Office. When a date, time, and place for the hearing has been established, a student may present evidence at the hearing

and be represented by an attorney, at the student's expense. The hearing panel will include the Vice President for Student Services or other appointed designee and the student's advisor/instructor. The hearing process does not replace other processes for student grievances. The decision of the hearing panel will be based solely on the evidence presented at the hearing. A written summary of the hearing will be prepared and distributed to all parties. The summary will include the reasons behind any decisions made by the hearing panel. The student's records may be amended in accordance with the ruling of the hearing panel.

A student may add comments to his or her record if the student is not satisfied with the ruling of the hearing panel. Such comments will be released whenever the records in question are disclosed. Students who believe the hearing panel results are in error may contact the United States Department of Education, Room 4074, Switzer Building, Washington, D.C. 20202.

### **TITLE IX OF EDUCATION AMENDMENTS OF 1972-SEXUAL DISCRIMINATION**

Title IX and its implementing regulation, at 34 C.F.R. § 106.31 (a), provide that no person shall on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any academic, extracurricular, research, occupational training, or other education program or activity operated by the university.

Sexual harassment is a form of sex discrimination prohibited by Title IX. Sexual harassment is unwelcome conduct of a sexual nature. Sexual harassment can include unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal, or physical conduct of a sexual nature, including rape, sexual assault, sexual battery and sexual coercion or other sexual misconduct.

Sexual harassment of a student can deny or limit, on the basis of sex, the student's ability to participate in or to receive benefits, services, or opportunities in the school's program.

Any student, faculty, or staff member with questions or concerns about sex discrimination or sexual harassment or who believes that he or she has been the victim of sex discrimination or sexual harassment may contact the Title IX Coordinator for assistance. The Title IX Coordinator is available to discuss options, explain college policies and procedures, and provide education on relevant issues.

Title IX complaints involving student complainants and student respondents will be referred to the Title IX Coordinator for investigation and shall be subject to the STUDENT CONDUCT CODE.

The Title IX Coordinator for North Idaho College is:  
Alex Harris  
Title IX Coordinator  
Director of Student Development  
Office: Edminster Student Union Building, 200E  
Phone: (208) 769-5970 / (208) 676-7156  
Email: alex.harris@nic.edu

### **DRUG-FREE SCHOOLS AND CAMPUSES ACT**

NIC is committed to maintaining an environment of teaching and learning that is free of illicit drugs and alcohol. The college prohibits illegal possession, consumption, manufacture, and distribution of alcohol and drugs by students in college-owned, -leased, or -operated facilities and on campus grounds. Individuals who violate college policies, city ordinances, state, or federal laws may be subject to disciplinary action and/or criminal prosecution. Student sanctions, as detailed in the Student Code of Conduct, may include warning, censure, fines, disqualification, suspension, expulsion, restitution, as well as required attendance at educational programs. More information is available at [www.nic.edu](http://www.nic.edu).

### **TOBACCO-FREE CAMPUS GUIDELINES**

To ensure a safe and healthy environment for students, employees, and visitors, North Idaho College prohibits the use of any tobacco products including, e-cigarettes and smokeless tobacco products, on campus except for in designated areas.

### **CAMPUS PARKING**

The goal and objective of campus parking is to expedite the safe and orderly conduct of campus business and to provide parking facilities within the limits of available space. Permits are available to purchase online through MyNIC, as well as in person at the Parking Services Office, Edminster Student Union Building, and Cardinal Card Office. All motor vehicles excluding handicap and motorcycle parking on the NIC Coeur d'Alene campus (including Garden and College avenues) must display a valid parking permit for each vehicle. Parking permits are also required at the Parker Technical Education Center. For a complete listing of permit service and enforcement, visit [www.nic.edu/parking](http://www.nic.edu/parking).

### **CAMPUS SECURITY POLICY AND CAMPUS CRIMES STATISTICS ACT**

Higher education institutions are required to publish and provide campus security information to students and staff.

NIC's campus safety policies, programs, and campus crime statistics are available at the Campus Security Office in the Headwaters Complex at 703 Military Drive, Coeur d'Alene or by calling (208) 769-3310 or at [www.nic.edu/security](http://www.nic.edu/security).

### **CRIME STATISTICS**

The personal safety and security of students, employees, and visitors, including the protection of property, are high priorities at North Idaho College.

NIC security information is provided to you as part of North Idaho College's commitment to safety and security and in compliance with the Federal Crime Awareness and Campus Security Act of 1990.

Creating and maintaining a healthy and safe campus environment requires the cooperation and involvement of everyone. All students, employees, and visitors must assume responsibility for their personal health and safety and the security of their personal belongings. Our institution is safer than most places, but it's not crime free. Theft, assaults, and other violations of the law can occur at North Idaho College.

Please refer to [www.nic.edu/security](http://www.nic.edu/security) for detailed information on crime statistics, the Annual Security and Fire Report, reporting procedures, Title IX information, awareness training, and tips on maintaining a safe campus. A printed copy of the Annual Security and Fire Report is available upon request, by calling (208) 769-3310. The Annual Security and Fire Report will provide crime and fire data for North Idaho College. Updates to security policies and procedure are posted in a timely manner; the security webpage will list the most current updates available.

NIC Campus Security can be contacted by calling (208) 769-3310; this number will be answered 24/7/365. The Campus Security Office is located at 703 Military Drive.

### EMERGENCY PHONES

Emergency phones are located throughout the campus grounds. These phones are mounted on freestanding poles and are identified with a flashing blue light. Each phone dials directly to the Campus Security Office. These phones are for the use of students, employees, or visitors in case of an emergency or the need for assistance, such as an escort or vehicle jump-start. Emergency phone location maps are available at the Campus Security Office and Cardinal Card Office.

### EMERGENCY PREPAREDNESS

All college employees and students have a responsibility to engage in their own safety and security. As an institution, North Idaho College has several notification systems used during campus emergencies. The Alertus system utilizes a series of beacons that will sound an alarm in college buildings when activated as well as take over the screens of all networked computers with an alert message. In addition, the Cardinal Contact system sends alert messages via email, voicemail, and text to all contacts in the MyNIC system. Employees and students are automatically signed up to receive Cardinal Contact alert messages. Please ensure that you'll receive alerts by checking your contact information in MyNIC. Log in to MyNIC and then under the "Services" tab, click "User Account" then "Contact Information." The phone numbers listed as "Cell" will receive text messages via the Cardinal Contact system. The phone numbers listed as "Business" or "Home" will receive voicemail. More lockdown and shelter-in-place guidelines are available at [www.nic.edu/security](http://www.nic.edu/security). There, you can also watch the emergency preparedness video to review responses in an active shooter situation. The college will test emergency procedures each semester with a collegewide drill.

### FINANCIAL AID REFUND/ WITHDRAW POLICY

Federal law requires that when you withdraw during a payment period or period of enrollment, the amount of federal financial aid that you have "earned" up to that point by attending classes is determined by a specific formula. If you received (or NIC received on your behalf) less assistance than the amount that you earned, you may be able to receive those additional funds. If you received more assistance than you earned, the excess funds must be returned.

For more information, visit [www.nic.edu/financialaid](http://www.nic.edu/financialaid).

### SERVICE ANIMALS ON CAMPUS

Service Animals are permitted to accompany individuals with disabilities in all areas of North Idaho College's facilities where members of the public, students, participants in services, programs, or activities, or invitees are allowed to go. Service Animals are defined by the ADA Amendments Act (ADAAA), as any dog that is individually trained to do work or perform tasks for the benefit of an individual with a disability, including a physical, sensory, psychiatric, intellectual, or other mental disability. Service Animals do not need to wear a vest or have identification. Service animals are required to be leashed or harnessed except when performing work or tasks where such tethering would interfere with the animal's ability to perform work or tasks, in which case the animal must be otherwise under the handler's control. Individuals should not be approached with questions about their Service Animals. Please do not pet, feed, or interfere with a Service Animal in any way.

Questions or concerns about Service Animals should be directed to Disability Support Services, (208) 769-7794 or (208) 665-4520. Please see the "Service Animal" link under the NIC Disability Support Services website at [www.nic.edu/dss](http://www.nic.edu/dss) to view the entire Service Animal Policy.

### NONDISCRIMINATION CLAUSE

North Idaho College does not discriminate on the basis of race, color, religion, sex, national origin, age, or disability in any educational programs or activities receiving federal financial assistance or in employment practices.

Inquiries regarding compliance with this non-discrimination policy and the college's grievance process may be directed to the Executive Director of Human Resources at the NIC Human Resources Offices Headwaters Complex B, 710 Military Drive, Coeur d'Alene, Idaho, 83814, (208) 769-3272 or, contact the Title IX Officer in the Student Services Office, Room 200 of the Edminster Student Union Building, or at (208) 769-5970.



# Admissions



**North Idaho College 2017-2018**

## GETTING STARTED

### ADMISSIONS

North Idaho College's open-door admissions policy reflects a commitment of access to higher education. We welcome anyone seeking to benefit from our educational programs and services regardless of race, religion, color, national origin, sex, and/or disability. Our open-door policy results in a diverse student population with varied experiences, backgrounds, abilities, interests, needs, and educational goals. Selective and limited enrollment programs and certain courses have special requirements for admission and registration.

### GENERAL ADMISSIONS

Students who are pursuing a degree or certificate, or who are applying for financial aid, must submit an admissions application. The application steps are:

- Complete the application for admission (available online at [www.nic.edu/apply](http://www.nic.edu/apply))
- Submit one of the following:
  - A high school transcript showing graduation. OR
  - A home school transcript showing high school/secondary school graduation. OR
  - Official GED test scores.
- Take the NIC placement for English and Math, found at [www.nic.edu/placement](http://www.nic.edu/placement) or submit a copy of your ACT or SAT scores. Test scores are valid for two years and used to place students in appropriate coursework, not to determine admission status.

### FORMER STUDENTS

Students who have previously attended NIC need to reactivate their files by completing a Student Record Update form and submitting it to the Admissions Office, available online at [www.nic.edu/apply](http://www.nic.edu/apply).

### NON-DEGREE SEEKING STUDENTS

Students interested in taking classes for personal enrichment, to improve job skills, or for other educational purposes can attend NIC as non-degree seeking students. The following conditions apply to non-degree seeking students.

- Non-degree students are not admitted to an academic program.
- Non-degree students are not eligible to receive financial aid.
- Non-degree students must apply as a degree-seeking student if they wish to pursue a degree or certificate, available online at [www.nic.edu/apply](http://www.nic.edu/apply).

### NON-HIGH SCHOOL GRADUATES

Non-high school graduates who want to be admitted as a degree-seeking student may do so after passing the high school level General Educational Development (GED) tests.

### INTERNATIONAL STUDENTS

North Idaho College welcomes the enrollment of qualified international students. In addition, the college encourages currently enrolled international students to participate in the educational, social, and cultural activities of the local community.

International students must meet the same admissions requirements as domestic students. Students must have graduated from a secondary school and have the minimum English abilities to succeed in college. International students who are transferring from a college or university must have a minimum 2.00 grade point average.

All application materials from students living abroad should be sent to the Admissions Office at least six months prior to registration in order to allow time for evaluation and notice of acceptance. International students applying from within the United States need to submit all materials no less than one month prior to registration. The college will issue an I-20 to accepted students who provide the appropriate admissions and financial documentation.

The following items are required for all international applicants:

1. International Student Application for Admission.
2. Official secondary (high school) transcript and confirmation of graduation (an original, certified English translation must accompany those documents that are not in English).
3. Official transcripts from all colleges attended (an original, certified English translation must accompany those documents that are not in English).
4. Official Test of English as a Foreign Language (TOEFL) Scores. Minimum scores are 500 (paper-based), 173 (computer-based), and 61 (Internet-based) or official International English Language Testing (IELTS) scores. Minimum score of 5.  
Information about the TOEFL is available at [www.ets.org](http://www.ets.org). Information about IELTS is available at [www.ielts.org](http://www.ielts.org).
5. Certificate of Health signed by a recognized medical agency which includes complete immunization records.
6. Proof of health insurance.
7. Financial Declaration:

International students must submit proof from a financial institution demonstrating sufficient financial resources to fully cover the costs of tuition, books, fees, room and board, and all personal expenses for one academic year. North Idaho College will not bear responsibility for an international student's finances. For the current tuition and fees schedule, visit [www.nic.edu/tuition](http://www.nic.edu/tuition).

Tuition and Fees	\$8,160
Room and Board	\$7,700
(includes a \$200 deposit)	
Books, Supplies, Incidentals	<u>\$1,484</u>
Total *	\$17,344

\* NIC reserves the right to change its charges at any time. In the unlikely event that changes become necessary, NIC will endeavor to give advance notice.

Send all materials to: Admissions Office  
 North Idaho College  
 1000 West Garden Avenue  
 Coeur d'Alene, ID 83814 USA

## PROGRAMS WITH SPECIAL ADMISSION REQUIREMENTS

### *Limited Enrollment Career and Technical Education Programs*

Certain career and technical education programs have limited capacity and additional admission requirements. Since these programs often fill quickly, prospective students are encouraged to begin the application process as early as possible.

The following programs have limited space available:

- Aerospace Technology
- Automotive Technology
- Carpentry and Construction Technology
- Collision Repair Technology
- Computer Aided Design Technology
- Construction Management
- Culinary Arts
- Diesel Technology
- Heating, Ventilation, Air Conditioning/Refrigeration
- Industrial Mechanic/Millwright
- Machining and CNC Technology
- Mechatronics
- Outdoor Recreation Leadership
- Welding Technology

Applicants should submit admissions materials three to six months prior to enrollment. Decisions on acceptance are made on an eligibility/space available basis and only after the Admissions Office has received the following items:

- An application for admission to NIC and the specific program.
- Assessment materials in the form of English and Math placement found at [www.nic.edu/placement](http://www.nic.edu/placement), SAT, ACT test scores, or transcripts of previous college coursework in math and English.
- Students considered for enrollment in the limited enrollment programs, must satisfy NIC satisfactory academic progress requirements or have permission of the division chair to enroll.

Students accepted into a limited enrollment program are required to pay a \$100 non-refundable deposit within two weeks of acceptance. The deposit will be applied toward tuition and fees. See the program descriptions in this catalog for specific requirements for each program. Assistance is available.

For more information, contact the Admissions Office at (208) 769-3311 or the Career and Technical Education Student Support Services Office at (208) 769-3448 or (208) 769-3468.

### **Selective Enrollment Programs**

The following programs have a selective and/or competitive entry and have additional admissions requirements. Application packets for all programs, except Law Enforcement, are available online at [www.nic.edu/admissions](http://www.nic.edu/admissions). Please see the program descriptions in the catalog for the specific admissions requirements for each program.

- Computer Information Technology
- Graphic Design

- Law Enforcement
- Medical Assistant
- Pharmacy Technology
- Physical Therapist Assistant
- Practical Nursing
- Radiography Technology
- Registered Nursing
- Web Design

### **Dual Credit for High School Students**

Dual credit allows eligible high school and home school juniors and seniors to enroll in NIC courses on campus, online, or at their high school. Credit for both high school and college is awarded. Students enrolled in NIC courses will receive an NIC transcript. These credits transfer to other colleges and universities across the nation.

Dual credit students are not eligible for financial aid. Some scholarships are available. Complete details about the Dual Credit program are available from high school counselors, the Dual Credit Office, and [www.nic.edu/dualcredit](http://www.nic.edu/dualcredit).

To be eligible students must be at least 16 years old or have successfully completed at least half of their graduation requirements as approved by their high school counselor.

### **Dual Credit Application and Registration Process:**

1. Meet with a high school counselor to determine eligibility.
2. Complete the application for admission available at [www.nic.edu/apply](http://www.nic.edu/apply).
3. Submit completed Dual Credit Authorization Form, with high school counselor and parent signatures.
4. Take the NIC placement assessment for English and Math, found at [www.nic.edu/placement](http://www.nic.edu/placement) or submit a copy of your ACT/SAT test scores for proper course placement.

Test scores are valid for two years and are used to place students in appropriate coursework, not to determine admission status.

For more information, contact the Office of Advanced Opportunities at (208) 625-2329 or go to [www.nic.edu/dualcredit](http://www.nic.edu/dualcredit).

### **Technical Competency Credit (TCC)/ Technical Dual Credit for High School Students (TDC)**

TCC and TDC is an advanced learning opportunity that links approved high school technical courses to technical certificate and degree programs at the college level. Students enrolled in approved high school programs throughout the state may receive credit from North Idaho College that is counted toward a career and technical education certificate or degree. This allows students to begin working on an Associate of Applied Science Degree, Advanced Technical Certificate, or Technical Certificate while still in high school. TCC and TDC students will not have to repeat courses in college that were successfully completed in high school. TDC is paid for by Fast Forward funds.

For more information about TCC and TDC opportunities, contact the Regional Transition Coordinator at (208) 769-5964 or go to [www.nic.edu/techprep](http://www.nic.edu/techprep).

**PLACEMENT ASSESSMENT**

Placement assessment is an important part of enrollment. Results are used to identify courses needed to promote student success. Students are required to complete the placement assessment if they will be entering their first college English or college math course. Enrollment in other courses with an English or math prerequisite (or equivalent placement scores) may also require completion of the placement assessment.

**Math Placement**

Math placement\* will be via ALEKS PPL (Assessment and Learning in Knowledge Spaces, Placement, Preparation, and Learning). ALEKS must be taken at an approved, proctored location such as the NIC Testing Center. ALEKS results will be used to determine appropriate NIC course registration.

**English Placement**

English placement\* will be via TWC (The Write Class), which is a no cost, online, unproctored instrument. TWC may be accessed from any Internet browser at [www.thewriteclassnic.com](http://www.thewriteclassnic.com).

\* NOTE: North Idaho College accepts ACT, SAT, and COMPASS (NIC's former assessment) scores two years old or less that meet placement requirements. These are listed in full, including course placement, at [www.nic.edu/placementinterpretations.pdf](http://www.nic.edu/placementinterpretations.pdf).

If you have questions about placement assessments, contact the Admissions Office at (208) 769-3311.

**OUTREACH CENTERS**

NIC has outreach centers in Bonners Ferry, Sandpoint, and the Silver Valley. These centers offer a variety of services, including admissions and academic advising, proctored testing, credit and non-credit courses, Adult Education courses, and GED instruction and testing. Transportation to outreach centers and other off-campus college facilities is not provided by North Idaho College. To learn more about the specific services and courses offered at the outreach center near you, go to [www.nic.edu/outreach](http://www.nic.edu/outreach) or call or visit:

NIC Bonners Ferry Center  
6791 Main Street, Suite B  
Bonners Ferry, ID 83805  
(208) 267-3878

NIC at Sandpoint  
102 South Euclid Street  
Sandpoint, ID 83864  
(208) 263-4594

NIC Silver Valley Center  
323 Main Street  
Kellogg, ID 83837  
(208) 783-1254

For registration information, go to [www.nic.edu](http://www.nic.edu). To purchase textbooks, go to [www.bookstore.nic.edu](http://www.bookstore.nic.edu).

**RESIDENCY STATUS**

Residency for tuition purposes is governed by Idaho State Code. Under current Idaho State Code 33-2110A,

“...a student in a community college shall not be deemed a resident of the district, or of a county, or of the State of Idaho, unless such student shall have resided within said district, county, or state, for at least one (1) year continuously prior to the date of his/her first enrollment in said community college.”

“Counties in Idaho are liable for the out-of-district tuition so long as the student is duly enrolled and attending the college. This liability shall be for six (6) semesters or the term of the curriculum for which the student is enrolled, whichever is lesser. Liability shall terminate if the student's domiciliary residence changes and that change occurs for twelve (12) months.”

**Residents of Idaho**

Residency status is determined when a student applies for admission and remains unchanged until the student supplies evidence to the contrary. To be classified as a resident the student, or for a dependent student the parent or legal guardians, must have established a domicile in the state of Idaho for 12 months prior to the beginning of the semester of enrollment.

For tuition purposes, a student who is a permanent resident of the United States may be classified as a resident of the district by meeting one or more of the following qualifications:

1. Any student whose parents or court-appointed guardians are domiciled in the college district and provide more than 50 percent of his or her support. (Domiciled means an individual's true, fixed, and permanent home and place of habitation. It is the place where he or she lives without intending to establish a new domicile elsewhere). To qualify under this section, the parents or guardian must have resided continuously in the college district for 12 months preceding the opening day of the term for which the student matriculates.
2. Any student who receives less than 50 percent of his or her support from parents or legal guardians, who are not residents of the college district for voting purposes, and who has continuously resided in the college district for 12 months preceding the opening day of the term for which the student matriculates.
3. The spouse of a person who is classified or is eligible for classification as a resident of the college district for the purpose of attending the college.
4. A member of the armed forces of the United States, stationed in the college district on military orders.
5. A student whose parents or guardians are members of the armed forces and stationed in the college district on military orders and who receives 50 percent or more of his/her support from parents or legal guardians. The student, while in continuous attendance, shall not lose his/her residency when his/her parents or guardians are transferred on military orders.
6. A person separated, under honorable conditions, from the United States armed forces after at least two years of active service, who, at the time of separation, designates the college district as his/her intended domicile or who has the district as the home of record while in service and enters the college within one year of the date of separation.
7. Any individual who has been domiciled in the college district, has qualified and would otherwise be qualified under the provisions of this statute, and who is away from the district for a period of less than one calendar year and has not established legal residence elsewhere, provided a 12-month period of continuous residence has been established immediately prior to departure.

A student's residency status remains unchanged unless the student can provide evidence that he or she has established a permanent domicile in Idaho and has resided there for 12 consecutive months. To challenge a residency determination a student must complete a Residency Change Form along with documentation and submit it to the Admissions Office within 10 days of the beginning of the term. The evidence must prove convincingly that residency was established 12 months before the beginning of the term. Students may appeal the residency redetermination decision by submitting a written appeal to the Admissions Office who will forward it to the Director of Admissions.

#### **Idaho Residents – In-District**

Idaho residents who reside in Kootenai, Ada, Canyon, Jerome, and Twin Falls counties are classified as in-district residents. Residency for these counties is determined by NIC. In-district residents pay the "district" tuition rate.

#### **Idaho Residents – Non-District**

Idaho residents who do NOT reside in Kootenai, Ada, Canyon, Jerome, and Twin Falls counties are classified as non-district residents. Non-district students may qualify for county support from their county of residence to cover the additional non-district tuition fees. To qualify for county support, non-district residents must file a Certificate of Residency with their home county auditor's office each academic year. Certificate forms are available from the Admissions Office, Student Accounts Office, or the county auditor's office. The counties will notify NIC if the Certificate of Residency has been approved.

If verification is not received from the student's home county, the student must pay non-district fees. (Exception: Students from Ada, Canyon, Jerome, Kootenai, and Twin Falls counties are not required to complete the Certificate of Residency.)

Students who exceed the tuition benefit will be charged non-district tuition. However, non-district tuition is significantly lower than out-of-state. Check with your county for further details. The county is obligated by state code to pay the out-of-district charge pursuant to Idaho State Code 33-2110A.

### TUITION REDUCTION PROGRAMS

#### **Washington State Residents**

Washington residents qualify for a reduction of a portion of the out-of-state tuition rate. Residency status is determined at the time of application to the college (see [www.nic.edu/tuition](http://www.nic.edu/tuition) for the current tuition and fees schedule).

#### **Western Undergraduate Exchange**

The Western Undergraduate Exchange Program (WUE) was established to financially assist individuals interested in attending college out of their home states. The tuition rate is 150 percent of the non-district tuition rate. Students may not use any of the time accrued under the WUE program to establish residency in the state of Idaho. Residents from the following states are eligible for the reduced tuition rates (see [www.nic.edu/tuition](http://www.nic.edu/tuition) for the current tuition and fees schedule).

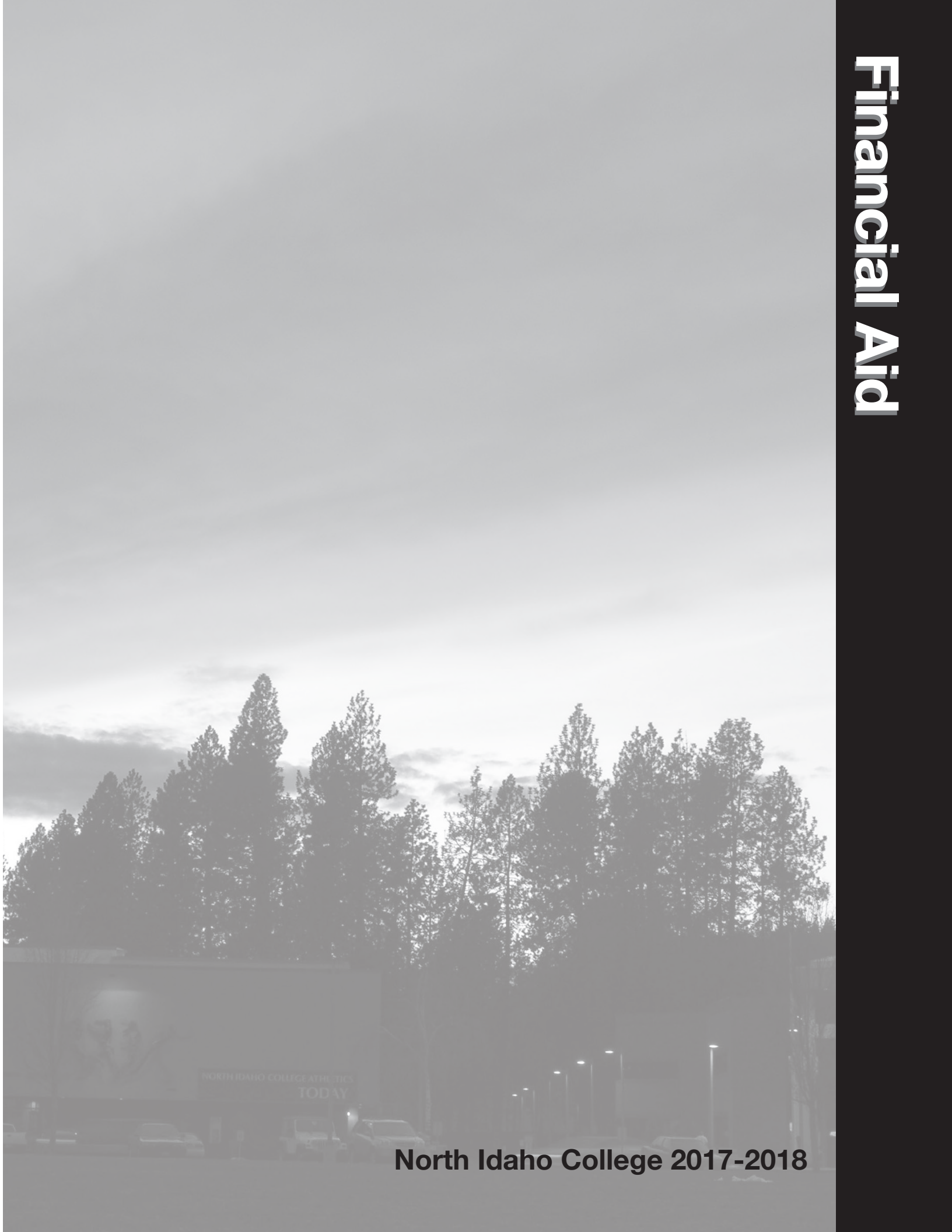
Alaska	New Mexico
Arizona	North Dakota
California	Oregon
Colorado	South Dakota
Hawaii	Utah
Montana	Wyoming
Nevada	
Commonwealth of the Northern Marianas Islands	

#### **Senior Citizen's Rate**

North Idaho College offers a special rate to non-degree seeking individuals who are 60 years or older. The senior citizen rate for non-degree credit classes is \$25 per class plus \$5 per credit. Fees for non-credit courses, materials, books, or special fees are full price. Degree seeking seniors will pay full tuition rates for all courses.



# Financial Aid



NORTH IDAHO COLLEGE ATHLETICS  
TODAY

**North Idaho College 2017-2018**

## FINANCIAL AID - WHAT IS IT?

Financial aid funding assists students in offsetting the cost of a college education including tuition and fees, room and board, books, supplies, transportation, and miscellaneous expenses. The most familiar type of funding is gift aid or grants and scholarships. This type of aid does **not** have to be repaid. Self-help funding is aid that **does** need to be repaid in the form of student loans. Funding may also be earned through the college work-study programs.

**For information about  
financial aid, go to  
[www.nic.edu/financialaid](http://www.nic.edu/financialaid).**

<i>Source of Funding</i>	<i>Eligibility Requirements</i>	<i>Available Amounts</i>
<b>GRANTS</b>		
<b>Federal Pell Grant (PELL)</b>	Complete the FAFSA at <a href="http://www.fafsa.ed.gov">www.fafsa.ed.gov</a> . Undergraduate student who has NOT received a bachelor's degree.	Maximum award for the school year is \$5,920 (based on number of credits).
<b>Federal Supplemental Educational Opportunity Grant (SEOG)</b>	Complete the FAFSA at <a href="http://www.fafsa.ed.gov">www.fafsa.ed.gov</a> Undergraduate student that demonstrates exceptional need.	Eligibility determined by Financial Aid Office.
<b>Grant-in-Aid (GIA)</b>	Determined by the NIC department that is awarding the grant-in-aid.	Maximum award is tuition and fees. Awarded by various NIC departments.
<b>SCHOLARSHIPS</b>		
	Determined by donor. Awarded by the various NIC Scholarship Committees.	Determined by donor. Scholarship information is available at <a href="http://www.nic.edu/financialaid">www.nic.edu/financialaid</a> .
<b>LOANS</b>		
<b>Federal Direct Subsidized Stafford Loan</b>	Complete the FAFSA at <a href="http://www.fafsa.ed.gov">www.fafsa.ed.gov</a> . At least half-time (6 credits) enrollment.	Maximum award for students completing 0-25 credits is \$3,500. Maximum award after 25 credits is \$4,500.
<b>Federal Direct Unsubsidized Stafford Loan</b>	Complete the FAFSA at <a href="http://www.fafsa.ed.gov">www.fafsa.ed.gov</a> . At least half-time (6 credits) enrollment.	Maximum award for dependent students is \$2,000. Maximum award for independent students is \$6,000.
<b>Federal Direct Parent Plus Loan (Parent Loan)</b> Parent applies at <a href="http://www.studentloans.gov">www.studentloans.gov</a>	Complete the FAFSA at <a href="http://www.fafsa.ed.gov">www.fafsa.ed.gov</a> . At least half-time (6 credits) enrollment.	Parents may borrow up to the cost of education minus previously awarded financial aid.
<b>WORK-STUDY</b>		
<b>Federal Work-Study</b>	Complete the FAFSA at <a href="http://www.fafsa.ed.gov">www.fafsa.ed.gov</a> . At least half-time (6 credits) enrollment.	Maximum is determined by Financial Aid Office. Minimum award is \$1,000.
<b>Idaho Work-Study</b> <i>Must be an Idaho resident</i>	Complete the FAFSA at <a href="http://www.fafsa.ed.gov">www.fafsa.ed.gov</a> . At least half-time (6 credits) enrollment.	Maximum is determined by Financial Aid Office. Minimum award is \$1,000.



## ELIGIBILITY for FINANCIAL AID

North Idaho College awards financial aid on the basis of *financial need*.

Eligibility for *need-based* financial aid is determined by the student's computed financial need, as established by the Department of Education. Financial need represents the difference between the total cost of attendance and the amount the student and his/her family can afford to pay toward that cost—the Expected Family Contribution (EFC). The total cost of attendance includes allowances for the cost of tuition and fees, books, supplies and tools, room and board (or rent and food), living expenses, and transportation from home. The EFC is calculated by using information the student and his/her parents (if dependent on parents) or spouse (if married) provide on the Free Application for Federal Student Aid (FAFSA) and verification documents.

To be eligible for Federal Financial Aid – need-based or non need-based – a student must:

1. Have a high school diploma or GED certificate.
2. Be accepted for admission into North Idaho College as a matriculated (degree-seeking) student.
3. Not be in default on a Federal Perkins Loan, Federal Stafford Loan, Federal Supplemental Loan for Students, or Federal Parents Loan for Undergraduate Students made for attendance at North Idaho College, or any other educational institution.
4. Not owe a refund on a Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Leveraging Educational Assistance Partnership Program, or Federal Stafford Loan previously used for attendance at North Idaho College or any other educational institution.
5. Be a U.S. citizen, U.S. national, or eligible non-citizen.
6. Certify that, if required, the student has registered with Selective Service.
7. Maintain satisfactory academic progress toward his/her North Idaho College degree or certificate as defined by the North Idaho College Satisfactory Academic Progress Policy.

## SATISFACTORY ACADEMIC PROGRESS POLICY

The U.S. Department of Education requires students to maintain satisfactory progress toward their degree or certificate in order to be eligible for financial aid. **This applies to students who are applying for the first time, as well as to those who are currently receiving aid.** All semesters of attendance are reviewed, including periods when the student did not receive financial aid.

For more information about NIC's Satisfactory Academic Progress Policy, go to the section at [www.nic.edu/financialaid](http://www.nic.edu/financialaid).

## ELIGIBILITY FOR FINANCIAL AID

Students interested in scholarships should complete the Scholarship Application available through their MyNIC account by clicking on "NIC Foundation Scholarship Application" in the bookmarks section. Scholarships offered through the state and outside entities may be accessed by visiting [www.nic.edu/financialaid](http://www.nic.edu/financialaid) and clicking on "Scholarships."

To apply for all other types of financial aid, the student and his/her parent(s) (if dependent) need to complete the Free Application for Federal Student Aid (FAFSA) available at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

To apply for financial aid, follow the steps below:

### 1. With the Department of Education

- Apply for an FSAID at [www.fsa.ed.gov](http://www.fsa.ed.gov).
- Fill out the FAFSA at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) (NIC's school code is 00162300).

### 2. With the NIC Financial Aid Office

([www.nic.edu/financialaid](http://www.nic.edu/financialaid))

- Fill out an NIC Foundation Scholarship Application.
- **Idaho residents only** - Fill out an Idaho scholarship application which is available at [www.boardofed.idaho.gov/scholarships](http://www.boardofed.idaho.gov/scholarships).
- Submit requested documentation if you are selected for verification.
- Once you have been awarded, you will be notified via your Cardinal Mail. You can then view your award by logging in to your MyNIC, Self Service, Financial Aid.

### 3. For Loans

- Any loans offered must be accepted or rejected electronically by logging on to Financial Aid Self Service, review and accept your financial aid award package.
- The Entrance Counseling and Master Promissory Notes must be completed at [www.studentloans.gov](http://www.studentloans.gov).
- Those interested in unsubsidized loans can apply using "request a loan" feature in Self Service.
- Students receiving student loans (subsidized and unsubsidized) as part of their financial aid package will receive their disbursement in two increments per semester instead of receiving a lump sum at the start of the semester. The first disbursement will take place three weeks into the semester and the second disbursement will occur after midterms each semester. This is to ensure that students receiving student loans are actively attending at least six credit hours of their registered courses. Once attendance has been confirmed, the remaining loans will be distributed.

For more information, visit [www.nic.edu/financialaid](http://www.nic.edu/financialaid).

**BOOKSTORE CHARGES and FINANCIAL AID**

Students who have accepted their financial aid will be allowed to charge books and supplies at the NIC Mica Peak Exchange bookstore beginning the week prior to the start of classes through the second week of classes, provided that he/she has met all eligibility requirements as previously outlined.

**TITLE IV FEDERAL FINANCIAL AID  
REFUND and REPAYMENT POLICY**

The federal refund/repayment policy for students receiving Title IV Federal Financial Aid is different than the established North Idaho College refund policy.

Anyone wishing to obtain a copy of the federal policy and/or calculation examples may stop by the Financial Aid Office located in Lee-Kildow Hall or access the information from the college website at [www.nic.edu/financialaid](http://www.nic.edu/financialaid).

# Tuition and Fees

**North Idaho College 2017-2018**

**TUITION and FEES for 2017-2018**

**Amounts are subject to change.** By registering at North Idaho College, you agree to provide payment by the due dates. You also understand that collection costs and legal fees will be added if the services of a collection agency are utilized.

Tuition and fees at NIC are among the lowest in Idaho and

the Inland Northwest. All rates quoted below are subject to change without notice. Idaho residents not living in Kootenai County must submit a Certificate of Residency to receive county support. The figures below do not include personal expenses or transportation. Books and supplies for academic transfer programs are estimated at \$500 per semester.

<b>ACADEMIC TRANSFER PROGRAMS</b>			
<b>12 credits:</b>	<b>Fall</b>	<b>Spring</b>	<b>Total</b>
<b>Kootenai County Residents</b>	\$1,680	\$1,680	\$3,360
<b>Non-Kootenai County Idaho Residents</b>			
Students qualifying for county support	\$1,872	\$1,872	\$3,744
Students not qualifying for county support	\$2,372	\$2,372	\$4,744
<b>Washington Residents</b>	\$2,796	\$2,796	\$5,592
<b>Western Undergraduate Exchange</b>	\$3,264	\$3,264	\$6,528
<b>Out-of-State/International Students</b>	\$4,140	\$4,140	\$8,280
<b>13 or more credits are assessed the following per-credit fee:</b>			
<b>Kootenai Residents</b>	\$140	\$140	--
<b>Idaho Residents</b>	\$156	\$156	--
<b>Washington Residents</b>	\$233	\$233	--
<b>Western Undergraduate Exchange</b>	\$272	\$272	--
<b>Out-of-State/International Students</b>	\$345	\$345	--
<b>All credits are assessed the following PER CREDIT fee:</b>		<b>1-11 credits</b>	
<b>Kootenai County Residents</b>		\$140	
<b>Non-Kootenai County Idaho Residents</b>			
Students qualifying for county support		\$156	
Students not qualifying for county support		\$206	
<b>Washington Residents</b>		\$233	
<b>Western Undergraduate Exchange</b>		\$272	
<b>Out-of-State/International Students</b>		\$345	

**CAREER AND TECHNICAL EDUCATION PROGRAMS**

Tuition and fees vary by length of program. Depending on the program (which may vary from 9 to 11 months), students will make payment for each semester and for any additional terms that may be included in the program. The cost for tools, supplies, and books also varies with each program. **Additional course fees may apply.**

- Kootenai County Residents**  
Tuition and Fees ..... \$3,360 - \$5,040
- Idaho Residents**  
Tuition and Fees ..... \$4,744 - \$6,616
- Washington Residents**  
Tuition and Fees ..... \$5,592 - \$8,388
- Western Undergraduate Exchange**  
Tuition and Fees ..... \$6,528 - \$9,792
- Out-of-State/International Students**  
Tuition and Fees ..... \$8,280 - \$12,420

**In addition, programs may also have additional costs for books, supplies, and tools, which may vary from \$500 to \$3,000 per year.**

**SUMMARY of TUITION and FEES  
FOR 2017-2018 SCHOOL YEAR  
(per semester)**

Rates are subject to change.

<b>Tuition</b> .....	\$1,200
<b>General Fees</b> (paid as part of tuition and fees)	
Associated Student Body .....	\$28
Athletics .....	\$36
Commencement.....	\$4
Health Services.....	\$31
Instructional Technology.....	\$123
Learning Assistance .....	\$40
Student Activities and Recreation .....	\$38
Student Service Fee (Debt) .....	\$180
<b>Total tuition and fees</b> .....	\$1,680

**SPECIAL and INCIDENTAL FEES  
(SUBJECT TO CHANGE WITHOUT NOTICE)**

**GED Testing Fee** ..... \$30 per test

**On-Campus Parking Fee**.....\$31 per year

**Special Course Fees** .....Varies

Special fees are assessed for such things as labs, some physical education courses, and some music classes. Special fees are listed in the Class Schedule.

**Transcript Fee** .....\$7

Official transcripts are \$7 each. Turn around time is 3-5 days. Please note that transcripts will not be processed if a student has a financial hold on their records. Financial holds include parking fines, library fines, delinquent loan payments, etc.

**Rush Transcript Fee** ..... \$20

A transcript will be mailed or ready for pick-up on the same day, if the request is received before noon. If received after noon, the transcript will be ready the next working day. An additional fee is required for overnight mailing.

**Same Day Transcript Fee**..... \$25

**Rush Transcript With Express**

**Mail Delivery Fee**.....\$35/\$50 International

A transcript will be express mailed and delivered by noon on the next business day, if the request is received before noon.

**Residence Hall Room and Board** .....\$6,700 - \$9,800

**DEPOSITS**

**Nursing Programs Deposit (R.N., L.P.N.)** ..... \$100

The Nursing program deposit is due by May 1. It will be applied to the tuition and fee charges for the initial semester or term of enrollment. Deposits may be refunded if notification of cancellation is officially given to the Admissions Office by July 1. No refund will be given if a student withdraws after the prescribed deadline.

**Career and Technical Education Program Deposit ... \$100**

After being accepted into a specific career and technical education program, students will be asked to submit a \$100 deposit within three weeks of the date of their acceptance letter. The deposit will be applied to the tuition and fee charges for the initial semester or term of enrollment. See page 19 for those programs that require a deposit.

**Residence Hall Security Deposit ..... \$200**

A \$200 deposit must accompany the signed application/contract and is not to be construed as partial payment for room and board. This deposit serves as a guarantee against loss and breakage of residence hall equipment and furniture. The deposit remains in effect through the period of application and residency. All students who fulfill the terms of the contract after occupancy will receive a refund of their deposit within four weeks after checking out of the residence hall (less any deductions for losses, damages, or fines).

**TUITION and FEES  
PAYMENT PROCEDURES**

Tuition, fees, and any special fees must be paid on or before the due date noted on the payment screen when registering online, unless financial aid has been approved. Students failing to pay amounts due to NIC could be **canceled** from classes and have their credits withheld. No student will be given a transcript of his/her record or allowed to register for classes until all accounts are settled in full. This includes any funds received through the Financial Aid Office involving overpayments, refunds, or delinquent loans.

Payment of regular student fees entitles the student to the services maintained by NIC for the benefit of students. No reduction in fees can be made for students who may not desire to use any part of these services. Extra charges are made for special services and specific courses.

**Students eligible for financial aid, but who have not completed the process prior to registration, will be expected to pay all required charges on or before the due date.**

Veterans and eligible persons receiving Veterans Administration educational benefits must pay all required charges at the time of registration. Those who are depending on veterans educational benefit checks to pay fees must apply for advance pay at least one month prior to registration.

Tuition and fees are established annually by the NIC Board of Trustees. Interested persons may inquire at the Admissions Office for applicable rates and payment information. NIC reserves the right at any time to change its charges. In the unlikely event that such changes become necessary, NIC will endeavor to give advance notice.

**SENIOR CITIZENS' RATE**

North Idaho College offers a special rate to non-degree seeking individuals who are 60 years or older. The senior citizen rate for non-degree credit classes is \$25 per class plus \$5 per credit.

Fees for non-credit courses, materials, books, or special fees are full price. Degree-seeking seniors will pay full tuition rates for all courses. A Senior Citizen's Gold Card allows individuals 60 years of age and older to attend NIC-sponsored athletics and arts events free of charge. Gold Cards are available through the Communications and Marketing Office. For more information, call (208) 769-7764.

### NORTH IDAHO COLLEGE REFUND POLICY

#### Refund

Students who officially drop from all classes at North Idaho College may be entitled to a refund of a portion of their tuition and fees. If financial aid paid a portion of those charges, then a portion of the refund must be returned to the federal financial aid funds.

### REFUNDS for DROPS from SEMESTER-LENGTH COURSES

Full-time or part-time students who drop from semester-length credit courses (day, evening, or Internet) will, **on dropping the course(s) in MyNIC**, receive refunds as follows:

#### Fall Semester

If you drop from one or all of your classes by 11:59 p.m. the third Tuesday after the first day of the Fall Semester, you will receive a 100 percent refund.

#### Spring Semester

If you drop from one or all of your classes by 11:59 p.m. the third Tuesday after the first day of the Spring Semester, you will receive a 100 percent refund.

#### Summer Session

If you drop from one or all of your classes by 11:59 p.m. the second Tuesday after the first day of the Summer Session, you will receive a 100 percent refund.

Should a class be cancelled, students will receive a full refund for the class.

### REFUNDS for DROPS from SHORT-TERM COURSES

Students who withdraw from short-term courses (less than 15 weeks in length) will, **on dropping the course(s) in MyNIC**, receive refunds as follows:

1. If withdrawal is made within five days of the class starting, 100 percent will be refunded.
2. No refund will be allowed after the fifth day.

Should a class be canceled, students will receive a full refund for the class.

### REFUNDS for STUDENTS CALLED to ACTIVE MILITARY SERVICE

Members of the Idaho National Guard and Reserve serve a vital function for our country. In the event that members of the National Guard or Reserve are called involuntarily to active duty, they will be administratively dropped with a grade of W from classes and any tuition and fees paid will be refunded in full. Copies of orders calling a student to active duty must be provided to the Veterans Coordinator who will initiate the administrative withdrawal from classes and the refund process.

### TUITION PAYMENT PLAN

North Idaho College provides a tuition payment plan option through Advanced Education Services, Inc. (AES), a nationally-recognized provider of education payment services. AES can be reached by calling their toll free number at (800) 3551-2773, Ext.15. The Interest-Free Monthly Payment Option allows for tuition and other expenses to be divided into three or four monthly payments, spread over the semester.

There is a \$50 semester enrollment fee (non-refundable, only available during the Fall and Spring Semesters). The payment plan option is not a loan, so anyone is eligible to participate.

Automatic monthly deductions from checking, savings, or credit card are available. A 3 percent convenience fee will be charged to each credit card payment.



# Academic and Registration Info

North Idaho College 2017-2018

## REGISTRATION

Registration is the official process of enrolling in classes. NIC is on a 16-week Fall/Spring Semester, followed by a Summer Session. The student calendar on pages 4-7 of this catalog has information regarding application and registration dates. Registration information is available at [www.nic.edu](http://www.nic.edu).

After applying for admission, and submitting required documentation, students will receive an acceptance letter from the Admissions Office which will include information about registration.

Students register by assigned start times through their MyNIC account. Appointment times for continuing students are determined by the number of credits completed. New and transfer students register for classes during their advising and registration.

Students with a financial hold such as parking fines, library fines, or delinquent loan payments may not register until the hold has been cleared.

## MyNIC: STUDENT INFORMATION on the WEB

MyNIC is the college's online student information portal where students will receive the majority of their official college communications, as well as accessing Self Service students can access their class schedules, unofficial transcripts, admissions and financial aid information, advisor's name, assessment scores, forms, and important announcements. Self Service is used by students to determine class availability, register for courses, and pay tuition and fees.

After being admitted, students will receive MyNIC access information.

To log in to MyNIC:

1. Go to [www.nic.edu](http://www.nic.edu) and click "MyNIC."
2. Click on the orange "New Students and Employees Start Here" button.
3. Follow the instructions for how to log in.
4. Access Self Service by clicking on the button.

Questions about MyNIC should be directed to the NIC HelpDesk at (208) 769-3280.

## PAYMENT of TUITION and FEES

Tuition and fees are set annually by the Board of Trustees.

Students from Idaho who reside outside of Kootenai, Ada, Canyon, Jerome, and Twin counties are required to file a Certificate of Residency with their home county auditor's office to avoid being charged out-of-district rates (see page 21).

## COURSE SCHEDULE CHANGES (ADD/DROP)

The add/drop period allows students to add classes on a space-available basis or drop classes without transcript notation. Students can make schedule changes online or through the Registrar's Office in Lee-Kildow Hall. If the class is a late-start class, it may be added through the second calendar day of the class. For all late-start classes, drops with no grade must be processed prior to the end of the second calendar day. Refer to the calendar for full semester courses add and drop dates.

## DROP WITH A GRADE OF W from INDIVIDUAL COURSES

To drop with a grade of W from a course, a student must log-in to their MyNIC account, access Self Service and drop the course. Final dates for drops with a grade of W are published on the college calendar located on pages 4-7. After the final drop with a grade of W date, students must submit an appeal for a late withdrawal to the Office of Instruction from a course using the appeal process outlined on page 33. A student who drops with a grade of W officially from a course by the last day for drops with a grade of W will have a grade of W recorded on the student's transcript.

Drops with a grade of W from short-term classes (classes less than 15 weeks in length) must be completed within the first half of the total calendar days; i.e., the deadline for a drop with a grade of W from a course that consists of eight weeks would be at the end of the fourth week.

Students who stop attending a class for which they have registered and from which they have not officially dropped with a grade of W may receive a grade of F.

Open enrollment courses that are dropped anytime after the drop week will receive a grade of W even if the course was added after the add/drop week.

## DROP WITH A GRADE OF W from ALL NIC COURSES

To drop all courses with a grade of W, a student must login to their MyNIC account, access Self Service, and drop all of their courses. Students may not drop with a grade of W from college after the published drop dates with a grade of W for that semester except for compelling and extraordinary reasons. In such circumstances, a student must petition the Admissions and Academic Standards Committee for a late drop with a grade of W using the form available in the Registrar's Office. Information on refunds of tuition and fees following a drop from all courses is on page 30.

## INDEPENDENT STUDIES

Independent study courses are available in most academic disciplines and are designated by the course number 299. Course content, learning, and evaluative criteria are developed primarily by the student with the guidance from an instructor. Independent studies may include a reading or a project and must be approved by the instructor, appropriate division chair, and Vice President for Instruction. These courses are open to students with a 3.0 GPA who have successfully completed 30 semester credits.

Students may take no more than three credits per semester of independent study or six credits per year. Credits earned may not be used to fulfill associate's degree core requirements. Students may register for independent study classes during the first two weeks of the semester or the first week of Summer Session. Additional information is available in the Registrar's Office.



## DIRECTED STUDIES

Directed study courses are identical to courses outlined in the catalog. A student must demonstrate the course is required for graduation or program purposes and that taking the course through directed study is the only option available to them. Directed study courses must be approved by the instructor, appropriate division chair, and Vice President for Instruction. Students may register for directed study classes during the first two weeks of the semester or the first week of Summer Session. No additional information is available in the Registrar's Office.

## ADDRESS CHANGES

Students having correct addresses on file is vital for college records. Students who change their address should update their information through their MyNIC account or notify the Registrar's Office.

## GRADING POLICIES

### Grading Procedures

Letter grades are used to indicate a student's quality of achievement in a given course. Each of the grades are also assigned an equivalency number, which is used to compute grade point averages:

A	4.0	Excellent
A-	3.7	Excellent
B+	3.3	Good
B	3.0	Good
B-	2.7	Good
C+	2.3	Average
C	2.0	Average
C-	1.7	Average
D+	1.3	Poor
D	1.0	Poor
D-	0.7	Poor
F	0.0	Failing
NR		No Report
NG		No Grade

Other grades awarded are W (drop with a grade of W or withdrawal according to proper procedure); I (incomplete work of passing grade); P or S (satisfactory – requires at least C or 2.0 work; used for designated courses only and for midterm grades); U (unsatisfactory – for courses in which S is given). Courses in which W, S, U, or I grades have been earned are not included in the grade point calculation.

Students wishing to check their grade point averages should use the following formula: Per credit grade equivalency x number of credits per class ÷ grade points = GPA. For example, a student receives a grade of B- in English 101 and a grade of C in Math 108:

English 101: (B-) 2.7 x 3 credits = 8.1 grade points

Math 108: (C) 2.0 x 4 credits = 8.0 grade points

$8.1 + 8.0 = 16.1$  grade points ÷ 7 credits = 2.3 GPA

### Academic Appeals/Instructional Petitions

Students should follow the guidelines below to address concerns about an instructor, change of grade, course substitutions, academic sanctions, or other instructional matters.

*NOTE: There are specific program appeal processes and procedures that must also be followed in fields such as Health Professions and Nursing. Please check with an advisor about any such standards and their relationship with the college procedures.*

#### STEP 1:

Discuss the issue in question with the instructor to seek resolution or to learn steps for addressing an academic concern. If the problem is not resolved to the satisfaction of the student at this level, the student should determine the immediate college supervisor of the employee or faculty member, typically this is the division chair. *For employee contact information, select the division from the department dropdown list at [www.nic.edu/directories](http://www.nic.edu/directories).*

Arrange for a meeting and be prepared to verbally explain the situation, indicate concerns, and suggest possible solutions. If this informal meeting does not result in resolution, the student should pursue further review that may include getting the advice of the division chair or program staff for the next level of consideration or petition the Admissions and Academic Standards Committee.

#### STEP 2 A: Admissions and Academic Standards

Petition the Admissions and Academic Standards Committee for consideration of late withdrawal from all college courses or reinstatement to college following disqualification or suspension. Petitions for late withdrawal must be submitted within two years from the semester in which the late withdrawals is being requested. Late withdrawals for individual classes are reviewed by the appropriate dean. Appeal forms are available on the Registrar's Office website at [www.nic.edu/registrar](http://www.nic.edu/registrar) or the office located in Lee-Kildow Hall, Room 116.

#### STEP 2 B: Office of the Vice President for Instruction

Unresolved concerns about an instructor or change of grade requests are processed by the Office of the Vice President for Instruction. Requests for grade changes must occur within 30 days of the start of the next term.

Students may also appeal decisions rendered by the Admission and Academic Standards Committee or any academic sanctions imposed as a result of violation of academic integrity (appeal process for academic sanctions is detailed in the Student Code of Conduct and NIC Policy 5.06.01 and takes precedent over any process outlined herein).

Students who wish to appeal should secure an Instructional Petition Form from the Office of the Vice President for Instruction, prepare a written Statement of Appeal, and submit it to the Office of the Vice President for Instruction within seven working days of the decision being appealed.

The Statement of Appeal must contain the following information:

- Student's name, local address, and telephone number.
- A statement of concerns regarding the original decision.
- Arguments supporting the student's position.
- A statement of the requested solution.
- All relevant supporting documentation.

The vice president or designee will then conduct inquiries as deemed appropriate and shall provide a written decision to the appellant within 15 working days. The vice president for instruction's decision is final.

After all the steps to voice a complaint with North Idaho College are exhausted, students have the right to forward their complaint to the State Board of Education. The Idaho State Board of Education Policy Section III P, starting on page 8, subsection 18, addresses this process. This policy can be viewed at [http://www.boardofed.idaho.gov/policies/iii\\_policy.asp](http://www.boardofed.idaho.gov/policies/iii_policy.asp)

### Audit

A student may enroll in any lecture class on an audit basis. Students are encouraged to attend classes on a regular basis even though they will not receive credit or a grade for the class. Audited courses will not fulfill graduation requirements and do not affect a student's grade point average and are not eligible for financial aid funding. The application process and fees for auditing a course are the same as if a student were enrolling for credit. Course enrollment may be changed from credit to audit during the drop/add period. With the instructor's permission, course enrollment may be changed from audit to credit during the first four weeks of Fall or Spring Semester or the first two weeks of a Summer Session. Contact the Registrar's Office if you would like to audit a course.

### Incompletes

An incomplete is assigned only if the student has been in attendance and has done satisfactory work to within three weeks of the end of the semester (or proportional length of time for a course of less than a semester in length). Incompletes are issued only in cases of extenuating circumstances, such as severe illness or injury. Incompletes are not issued in cases in which the student is simply unable to complete his/her work within the specified semester or session. If a final grade of I is recorded, the instructor will indicate in writing to the Registrar's Office what the student must do to make up the deficiency. The instructor will indicate in the written statement what permanent grade should be entered if the incomplete is not removed by the deadline.

All incomplete grades must be removed within six weeks after the first class day of the following term, excluding the Summer Session. If the incomplete is not removed by that date, the grade reverts to the grade indicated by the instructor's written statement authorizing the incomplete. Incompletes may affect financial aid eligibility and will prevent certificates or degrees from being awarded.

### Repeating a Course

Students may repeat any course to raise a grade, provided they have not completed a more advanced course for which the first is a prerequisite. While all grades received remain on the record, only the grade received for the most recent enrollment in the course is counted in computing grade point average. Note: Repeating a course may affect financial aid funding and may not be permitted if the course has already been used to earn a degree.

### Dean's List (Honor Roll)

To qualify for the Dean's List, students must complete at least 12 credits in a semester, earn a semester GPA of 3.75 or higher, and receive letter grades of A, B, C, D, or F in 80 percent of their classes.

### Academic Renewal

In conformity with the principle of encouraging and rewarding determination, self-discipline, and achievement, North Idaho College will allow a student to petition the Registrar's Office, under certain circumstances, for academic renewal. This means previous poor academic work at NIC would be eliminated from the computation of credits and grade points in the student's academic record as well as for academic standing and eligibility for graduation.

Eligibility for academic renewal will be subject to the following conditions:

1. At the time the petition is filed, a minimum of five years will have elapsed since the most recent course work to be disregarded was completed.
2. Before the petition may be filed, the student must complete at least 30 semester hours of course work at North Idaho College with a minimum cumulative grade point average of 2.50. These courses must be completed following the disregarded semester(s).
3. Renewal will not be granted for individual courses within a term.
4. Students holding an associate's or bachelor's degree are not eligible for academic renewal.

The student may have a maximum of two consecutive semesters (Summer Session excluded, unless it is one of the two disregarded semesters) of course work disregarded in all calculations regarding the computations of credits and grade points, academic standing, and eligibility for graduation. The petition to be filed by the student will specify the semester(s) or terms(s) to be disregarded.

If the petition qualifies under this policy, the student's permanent academic record will be suitably annotated to indicate that no work taken during the disregarded semester(s), even if satisfactory, may apply toward the computation of credits and grade points, academic standing, and graduation requirements. However, all work will remain on the records, ensuring a true and accurate academic history.

Since this is already a policy of exception, no exceptions will be made to the aforesaid conditions. Students should be aware that this policy **might not be accepted** at transfer institutions.

### ACADEMIC PROBATION, SUSPENSION, and DISQUALIFICATION

This policy applies to any student carrying credit hours at the end of the drop/add period of Fall and Spring Semesters and Summer Session.

Students and college employees have a shared responsibility to implement the policy in the interest of upholding standards of academic performance and achieving educational outcomes. Students who are placed on probation, suspension, or disqualification will be notified by NIC Registrar's Office after final grades are posted for each semester.

Students must maintain a minimum cumulative grade point average (GPA) of 2.00 to be considered in good academic standing. Students who do not meet this standard will be placed on academic probation, suspension, or disqualification as defined below.

## Academic Probation

Students whose cumulative GPA is below a 2.00 will be placed on academic probation. Students on probation who earn a semester GPA of at least a 2.00 will be placed on continued probation until their cumulative GPA is at least a 2.00. Students on probation who do not earn a semester GPA of at least a 2.00 will be placed on academic suspension.

## Academic Suspension

Students who have been placed on academic suspension must sit out one semester, summer not included, or petition to the Admissions and Academic Standards Committee to return the following semester. Students approved for reinstatement must abide by any conditions established by the Admissions and Academic Standards Committee.

## Academic Disqualification

Students who have been placed on academic disqualification must petition to the Admissions and Academic Standards Committee in order to return to NIC. Students approved for reinstatement must abide by any conditions established by the Admissions and Academic Standards Committee.

Students on probation, suspension, or reinstatement from disqualification who raise their cumulative GPA to at least the minimum 2.00, will return to good academic standing. Students on probation, suspension, or reinstatement from disqualification must have the approval of a designated advisor to register each semester until good standing is achieved.

This policy is separate from financial aid policies governing satisfactory academic progress, and should always be considered whenever relevant for students on probation or suspension as defined herein.

## CREDIT INFORMATION

### Definition of Credit

A credit, sometimes referred to as semester credit or semester hour, is related to time spent in class, study, preparation, laboratory, or field experience. One semester credit hour normally requires 45 hours of student work, or:

1. 50 minutes in class each week for one semester (which assumes twice this amount of time in study and preparation outside the classroom),  
**or**
2. Two to three hours in laboratory each week for a semester, **or**
3. The equivalent combinations of 1 and 2.

Credit for workshops and short courses is granted on the basis of one semester credit for 45 hours of scholarly activity.

### Credit Enrollment Limits

Registering for an excessive number of credits may result in marginal performance. Students enrolling for more than 18 credits are required to get authorization from Advising Services. Students taking more than seven credits during the summer are required to get authorization from Advising Services.

## STUDENT CLASSIFICATION

### Full-Time Classification

A student must register for a minimum of 12 credits each semester to be classified as a full-time student; however, in most

programs a student must earn at least 16 credits per semester to graduate in four semesters.

## Freshman and Sophomore Classification

Students with 0-25 semester credits are classified as freshmen, those with 26-64 semester credits are classified as sophomores.

## Course Numbering System

- 001 – 099 Courses are nontransferable and do not apply toward academic degrees. They may be required for some A.A.S. degrees.
- 100 – 199 Primarily for freshmen.
- 200 – 299 Primarily for sophomores.

## CREDIT by EXAMINATION

### Challenge for Credit

A student enrolled at NIC may petition to challenge courses based on work done through private study and/or employment or to validate courses taken at non-accredited institutions. Students are not permitted to challenge a prerequisite course after having completed an advanced course. Credit by examination is not financial aid available and will not be granted for a course that a student has previously taken for credit or audited. Credit will be granted provided the student earns a grade of C or better. Neither grades nor credit earned through the challenge process will be counted in any given semester to determine credit load or grade point average, nor will they be included in computing cumulative grade point averages. Students may challenge a course prior to or during enrollment in a course through the second week of Fall or Spring Semester, or through the first two days of a short course or Summer Session. Contact the Registrar's Office for specific regulations.

### Foreign Language Placement

One full year of high school study in a foreign language is generally considered equivalent to one semester's work in college. To receive college credit for high school or independent work, a student must take an advanced placement examination in the target language and complete the next semester advanced level with a grade of C or better. Placement in and completion of the second elementary level or first intermediate level will enable a student to receive credit for the first elementary level; placement in and completion of the second semester intermediate level will enable a student to get credit for the first three semesters of the target language once appropriate paperwork has been completed and fees have been paid.

### CLEP Examination

North Idaho College accepts a limited number of CLEP (College Level Exam Program) general and subject area exams. For information, contact the Admissions Office.

### Advanced Placement Examination

In recognition of the Advanced Placement Program sponsored by the College Entrance Examination Board, NIC will grant college credit for limited examinations based on the student's score. For specific information, contact the Admissions Office.

## GRADUATION

Students may graduate at the end of any term. The commencement ceremony is held once each year in May. Students eligible to participate in commencement are graduates from the previous fall or students who plan to graduate in the current spring or summer.

A student must submit an Application for Graduation with the Registrar's Office whether or not they plan to participate in commencement. Suggested application dates for graduation are **Nov. 1** for Spring Semester, **March 1** for Summer Session, or **May 1** for Fall Semester. Applications filed after the suggested dates will be accepted. However, early filing enables the Registrar's Office to evaluate a student's transcript and determine any course deficiencies in the program of study prior to the student's final semester of enrollment. A diploma will not be issued if a student has not fulfilled all financial obligations to the college.

### Final Credits Earned and Exceptions

Candidates for an associate's degree or certificate of completion must earn a minimum of 12 credits toward the degree or certificate at North Idaho College. In cases where the certificate requires fewer than 12 credits, a minimum of six credits must be completed at North Idaho College. A student may petition the Admissions and Academic Standards Committee for a waiver in exceptional cases involving specific course or residence requirements for graduation.

### Catalog Issue

The catalog in effect at the time a student is first admitted will be used to determine the associate's degree or certificate requirements for graduation. In no case can the catalog used for program requirements, including general education requirements, be more than four years old. A student whose catalog has expired will be required to submit a new program form updated to the catalog in effect at the time of the resubmission.

### Prior bachelor's degree and general education:

Students who submit official documentation of a bachelor's degree from a regionally accredited institution will be considered to have met all NIC general education requirements. Students pursuing an NIC program after completing a bachelor's degree from a regionally accredited institution will be evaluated on a course by course basis as appropriate for any program prerequisites or requirements, including course grades, in effect at the point of application.

### Credit Limitations

No more than 24 credits earned by examination and 32 credits earned by correspondence or examination may count toward an associate's degree.

## TRANSCRIPTS

A transcript is a record of all courses for which a student was enrolled at the end of the add/drop period each semester and Summer Session. It includes credit hours for which the student is enrolled, final grades in each subject, record of withdrawal, courses repeated, grade point average for each semester, and a cumulative grade point average.

## Requests for Transcripts

NIC academic transcripts are permanent records and are maintained forever. Transcript requests must be made online or by using the NIC transcript request form. Additional information is available through the Registrar's Office website at [www.nic.edu/registrar](http://www.nic.edu/registrar). Federal regulations require that the request be signed by the student to authorize release of the transcript. The request should include the student's full name, maiden name if applicable, approximate last date of attendance, student identification number, student's current address and phone number, address(es) where the transcript(s) should be mailed, and the student's signature. Payment must accompany each request. Official copies start at \$7 each for standard processing. Various rush options are available for an additional fee. Transcripts will not be released if the student has not fulfilled all financial obligations to the college. Transcript production time is usually 3-5 working days during term. Please allow up to 10 working days at the completion of each term.

## Transcripts from Other Schools

NIC does not issue certified copies of transcripts from other institutions. Transcripts reflecting a student's previous college education that have been submitted to the college as a requirement for admission become part of the official file. Any student desiring official transcripts of credits earned elsewhere must request transcripts from the institution where the credits were taken.

## STUDENT RIGHTS and RESPONSIBILITIES

### Attendance

Students are responsible for attending the courses in which they are enrolled. Failure to attend during the first two weeks of a full-semester course or first week of short-term or summer courses will result in a drop for non-attendance. If necessary, student's financial aid awards and veteran's benefits will be adjusted if they are dropped for non-attendance.

### Conduct

Students are expected to read and comply with the NIC Student Conduct and Discipline Code, which may be found in the Student Handbook. Student handbooks are available under Current Students at [www.nic.edu](http://www.nic.edu) and are distributed at student orientations and are also available at Student Services or the Associated Students of North Idaho College offices on the second floor of the Edminster Student Union Building.



# Workforce Training & Community Education

North Idaho College 2017-2018

## WORKFORCE TRAINING and COMMUNITY EDUCATION

NIC's Workforce Training Center, located in the Riverbend Commerce Park in Post Falls, offers a wide variety of credit-free classes for career development and personal interest. Classes are open to the public, generally without pre-admission, academic, or residential requirements. The Workforce Training Center's catalog of classes is published each fall, spring, and summer. Class information and registration is available in the catalog and online at [www.workforcetraining.nic.edu](http://www.workforcetraining.nic.edu). The catalog is also available at the NIC campus, in libraries, and other locations throughout the community. For a copy of the catalog or more information, call the Workforce Training Center at (208) 769-3333.

### Workforce Development (208) 769-3333

Workforce Development offers open enrollment career or job-related classes in a variety of subject areas to enhance skills for employment.

New classes begin weekly, all year. Classes are offered in instructor-led classrooms or online. Instructors are experts in their fields with hands-on, practical information.

Workforce Development offers classes in health professions and emergency services, business and enterprise, computers and technology, and industry and trades. Specialized industry-specific training programs are offered in Certified Nursing Assistant (CNA), Commercial Truck Driver, Emergency Medical Technician, Fire Fighter Academy, and Welding Certification. Many courses have been approved for veteran's benefits.

### Apprenticeship (208) 769-7735

Apprenticeship combines paid on-the-job experience with classroom instruction to prepare individuals to become journey-level workers in the electrical, plumbing, and heating, ventilation, and air conditioning (HVAC) trades. The Workforce Training Center offers the required four years of related instruction with classes that begin in early September and run through May of each year. Each year consists of 160 hours of instruction which is offered on Saturdays or weeknights. An Associate of Applied Science Degree for apprenticeship may be available for students who successfully complete all four years of the program.

### Health Professions (208) 665-5448

Workforce Training Center offers a variety of health care related training courses to start a career in the medical field. The courses offered lead to an industry recognized credential in high demand health care roles. These courses lead to entry level employment and open up a clear pathway for career and educational progression. Courses offered include: Certified Nursing Assistant, Phlebotomy Technician, Patient Care Coordinator, Medical Office, Restorative Assistant, Mental Health Assistant and Emergency Medical Technician. Classes start monthly, visit: [www.workforcetraining.nic.edu](http://www.workforcetraining.nic.edu).

### Community Education (208) 769-3224

Community Education offers personal interest courses in response to community interests and needs. Students may cultivate a hobby, develop a skill, and enjoy group activities in the pursuit of lifelong learning. Courses are designed to be practical, affordable, enjoyable, and sensitive to the time constraints of today's busy world.

Community Education classes are offered in such categories as arts, crafts, healthy living, home and garden, language, money management, music, recreation, and test preparation. A growing number of classes are available online to accommodate students who wish to enjoy the convenience of learning at home.

### Customized Training (208) 769-7732

Customized Training specializes in developing and delivering industry and company specific training to employees at the request of an organization. Customized Training works directly with the organization to clearly identify and deliver convenient, affordable, and high quality training solutions for increased knowledge, performance, and productivity.

Customized Training is the regional leader responding to the training needs of business and industry for the incumbent worker. For more information, contact the Workforce Training Center.

### Idaho Small Business Development Center (208) 665-5085

The Idaho Small Business Development Center (SBDC) exists to help businesses in Idaho thrive and grow. The Idaho SBDC assists businesses to improve their profit, margin, sales, cash flow, management, productivity, and exporting by providing:

- No cost business coaching
- Business training
- Business resources

Businesses that receive coaching and training assistance from SBDC grow on the average 700 percent faster than typical businesses in Idaho. The SBDC serves businesses in manufacturing, wholesale, service, and retail industries. The SBDC coaches leverage extensive business experience to provide business/leadership coaching to business owners. Business coaching covers most functional areas including strategy development, marketing and sales, financial management, operations, management, and exporting.

Idaho SBDC also provides workshops designed to equip business owners and leaders to become more effective leaders. The SBDC serves as the focal point for linking together the federal, state, and local resources.

### **Qualified Worker Retraining Program (208) 666-8012**

The Qualified Worker Retraining Program provides financial assistance to eligible low-income individuals and is designed to help unemployed or underemployed adults obtain training and employment to increase their lifelong earnings potential. This program, funded by a federal grant from the U.S. Department of Labor, seeks to help people living in Idaho travel the road to self-sufficiency along their chosen career pathway.

The staff works with each person to develop individual employment and training plans aligned with occupations that support key sectors of the economy. Low-income adults looking to begin a career or retrain for a new career, including those already enrolled in school, may qualify for services.

### **CONTINUING EDUCATION UNIT**

The Continuing Education Unit (CEU) is a nationally recognized measure of participation in an approved non-credit continuing education program. One Continuing Education Unit (1.0) is defined as 10 contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction.

North Idaho College is among the many colleges and universities throughout the nation that award CEUs to participants of approved programs. Each participant satisfactorily completing approved continuing education courses, seminars, conferences, or workshops offered through the Workforce Training Center is awarded CEUs in recognition of their involvement.





# Program Offerings



**North Idaho College 2017-2018**

## INFORMATION ABOUT TRANSFERRING

North Idaho College provides a wide array of associate's degree programs that support transfer to all four-year schools in Idaho, as well as to regional and out-of-state institutions. By completion of one of the Associate of Arts or Associate of Science programs described in this catalog, students will satisfy all of the general education requirements for all Idaho colleges and universities, and will be well-positioned to earn a bachelor's degree with two more years of full-time study at many transfer institutions.

With an assigned NIC advisor, use the education planning guide for each area of emphasis that lists courses commonly required at regional transfer institutions in Idaho and Washington. These NIC lower division courses, numbered 100 and 200, are widely needed to prepare for the upper division courses, numbered 300 and 400, to complete a bachelor's degree.

An efficient education plan for transferring credits from NIC and completing bachelor's degree requirements at other colleges or universities involves three groups of courses:

- General Education Courses
- Area of Emphasis Courses
- Transfer Specific Courses

Working with an NIC advisor and consulting with the intended transfer institution is the best way to design a personalized plan to achieve educational goals.

### General Education Courses

Students who complete all of the general education requirements, a minimum of 36 credits, as outlined on pages 48 to 50 will receive documentation on their official NIC transcript. This documentation will both be a milestone toward completion of the associate's degree requirements and support transfer to a bachelor's degree program in Idaho, where it will be universally accepted as satisfying general education requirements at all two- and four-year institutions. Completion of all of NIC's general education requirements will also be useful for those students who choose to transfer outside of Idaho for their bachelor's degree.

In the absence of an A.S. or A.A. degree, or completion of all general education requirements at NIC, transfer institutions will evaluate each course on a student's transcript. Completed general education core courses will transfer in the specified area taken at NIC to Idaho public institutions. For example, a course completed at NIC in Scientific Ways of Knowing will be accepted by a public institution in Idaho as Scientific Ways of Knowing. Any other course completed at NIC outside of the general education core, including courses in the wellness and integrative categories specific to NIC, will be reviewed on a case-by-case basis for transfer.

### Area of Emphasis Courses

These courses are listed under the general requirements for each program and are designed to meet specific requirements in bachelor's degree programs.

### Transfer Specific Courses

These courses may be identified for particular programs as a way to help ensure smooth and successful transfer to the designated institution.

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**CAREER AND TECHNICAL EDUCATION AND OCCUPATIONAL PROGRAM OPTIONS**

Students enrolled in a career and technical education program receive comprehensive training and may also receive on-the-job experiences through a practicum or co-op opportunity. These programs provide educational training for entry-level job skills. Reinforcing basic skills and developing job-related skills are integral components of all programs. Programs vary in length depending on whether students choose a certificate or Associate of Applied Science Degree option.

**Technical Certificate of Completion**

Students may qualify for a Technical Certificate of Completion by completing a career and technical education program with an earned overall grade point average of at least 2.0 (C). A grade of C- or better is also required for each specific course listed within the program outline. This certificate is awarded for career and technical education programs that do not meet the criteria for other career and technical education certificates and consist of seven semester credits or less.

**Basic Technical Certificate**

Students may qualify for a Basic Technical Certificate by completing a career and technical education program with an earned overall grade point average of at least 2.0 (C). A grade of C- or better is also required for each specific course listed within the program outline. This certificate is awarded for completion of requirements in an approved career and technical education program of instruction of at least eight semester credit hours and mastery of specific competencies drawn from requirements of business/industry.

**Intermediate Technical Certificate**

Students may qualify for an Intermediate Technical Certificate by completing a career and technical education program with an earned overall grade point average of at least 2.0 (C). A grade of C- or better is also required for each specific course listed within the program outline. This certificate is a credential awarded for the completion of requirements entailing at least 30 semester credit hours and less than one year of full-time work and includes mastery of specific competencies drawn from requirements of business/industry.

**Advanced Technical Certificate**

Students may qualify for an Advanced Technical Certificate by completing a career and technical education program with an earned overall grade point average of at least 2.0 (C). A grade of C- or better is also required for each specific course listed within the program outline. This certificate is a credential awarded after completion of technical and technical support requirements entailing more than one academic year, a minimum of 52 semester credit hours, and mastery of specific competencies from requirements of business/industry.

**Associate of Applied Science Degree**

Students may qualify for an Associate of Applied Science Degree by completing a career and technical education program with an earned overall grade point average of at least 2.0 (C). A grade of C- or better is also required for each specific course listed within the program outline. Some courses may not be

transferable to other institutions and some programs may require electives that fulfill general education requirements.

Requirements are listed on page 50. Students should consult with an advisor when setting up their program of study. This degree is a credential awarded for completion of requirements entailing at least two but less than four years of full-time career and technical education study with a minimum of 60 semester credits (includes a minimum of 15 general education credits) and includes mastery of specific competencies drawn from requirements of business/industry. The A.A.S. degree has specific requirements in individual technical fields. An Associate of Applied Science Degree for apprenticeship may be available at NIC for students who successfully complete four years (576 hours) of U.S. Office of Apprenticeship requirements.

For information, call the NIC Admissions Office at (208) 769-3311.

**Limited and Selective Enrollment Program Entry**

Certain career and technical education programs have limited capacity and/or additional admission requirements (see page 19, Programs with Special Admission Requirements). Prospective students who do not meet the initial eligibility requirements for a limited-enrollment program will need to take selected courses to receive necessary skill-building prior to entering the program. Because of the variety of options and course requirements within each career and technical education program, new students should consult with an advisor to formulate a customized plan prior to registration. Students who are placed on a waitlist for a limited enrollment program may also wish to pursue this option. Call (208) 769-3448 for information and to make an appointment with a career and technical education advisor.

**Hands-on Training**

Career and technical education and occupational programs provide hands-on training in specialized skills that are designed to connect with immediate employment opportunities. This training is accomplished through experiential learning in labs and shops, and through additional supervised internships at selected job sites or co-op opportunities. Each program has its own curricula for ensuring that students receive hands-on training and work-related experience to be employable in their field of study. Refer to the program and course descriptions for more information about the type of hands-on training provided for each career and technical education program. Those wishing additional information may contact Career and Technical Education Student Support Services at (208) 769-3448.

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<sup>1</sup> **Selective Program:** Admission process and requirements are explained on the appropriate page number or see admissions requirements on page 19.

<sup>2</sup> **Limited Enrollment Program:** Early application is encouraged. See admissions requirements on page 19.

**GENERAL EDUCATION FRAMEWORK AT NORTH IDAHO COLLEGE**

North Idaho College has a proud heritage of seeking to provide all students with learning experiences to build the knowledge, skills, and attitudes needed for productive and meaningful lives and to be contributing members of society. The college framework for general education adopts the principles and requirements outlined in Idaho's Statewide General Education (Policy III N). NIC's faculty met with colleagues from across the disciplines at each of the two- and four-year higher education institutions in Idaho to write competencies in six areas of general education. The courses listed in the following pages represent the thoughtfully considered review by faculty of the content and learning outcomes for general education at NIC. These are:

- **Written and Oral Communication:** Students will communicate effectively, in both written and oral forms, to varied audiences to serve diverse purposes as part of their studies at NIC and beyond.
- **Mathematical Ways of Knowing:** Students will think quantitatively, evaluate data, and draw conclusions using sound mathematical principles and practices.
- **Scientific Ways of Knowing:** Students will apply scientific reasoning to various discipline related questions in the field and use laboratory practices appropriately for study, analysis and replication of key principles.
- **Humanistic and Artistic Ways of Knowing:** Students will insightfully read, appreciate, and express how a variety of art forms, including language, has shaped and influenced the human condition.
- **Social and Behavioral Ways of Knowing:** Students will use social science reasoning to inquire, critically consume relevant information, and develop insights on individual, social, community and world problems and questions.

In addition, NIC has established requirements for competencies in:

- **Integrative Inquiry and Wellness:** Students will think critically, develop self-awareness, practice integrative learning, and develop purposefulness about educational and life goals.

These competencies and outcomes are the basis for assessing our general education program. Together with the programs we offer, general education at NIC reflects the college's commitment to preparing citizens in the 21st century. NIC students will thereby have the benefit of an education that is shaped by our mission and values as a comprehensive community college.



# Degree Requirements



**GENERAL EDUCATION REQUIREMENTS (GEM)**

To qualify for an **Associate of Arts** or an **Associate of Science** Degree, a candidate must:

1. Complete a minimum of 60 semester credits of 100- and 200-level courses with a grade point average of 2.00 (C) or better in all work attempted: **and**,
2. Satisfy distribution requirements listed below with a grade of C- or better in each course.

The complete list of courses and course descriptions is available beginning on page 53 of the 2017-2018 catalog. [www.nic.edu/catalog](http://www.nic.edu/catalog)

**GEM 1 - WRITTEN COMMUNICATION**

Complete these two courses: (6 credits)

___ ENGL 101	English Composition	3
___ ENGL 102	English Composition	3

**GEM 2 - ORAL COMMUNICATION**

Complete this course: (3 credits)

___ COMM 101	Intro to Speech Communication	3
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**GEM 3 - MATHEMATICAL WAYS OF KNOWING**

Complete one of the following: (3-5 credits)

___ MATH 123	Contemporary Mathematics	3
___ MATH 130	Finite Mathematics	4
___ MATH 143	College Algebra	3
___ MATH 147	Pre-Calculus	5
___ MATH 160	Survey of Calculus	4
___ MATH 170	Analytic Geometry and Calculus I	4
___ MATH 253	Principles of Applied Statistics	3

**GEM 4 - SCIENTIFIC WAYS OF KNOWING**

Complete at least 8 credits, including courses from two different disciplines:

___ BACT 250	General Microbiology	4
___ BIOL 100	Fundamentals of Biology	4
___ BIOL 115	Introduction to Life Sciences	4
___ BIOL 175	Human Biology	4
___ BIOL 227	Human Anatomy & Physiology I w/cadaver	4
___ BTNY 203	General Botany	4
___ BTNY 241	Systematic Botony	4
___ CHEM 100	Concepts of Chemistry I	4
___ CHEM 101	Intro. to Essentials of Gen. Chemistry I	4
___ CHEM 105	General, Organic, and Biochemistry	4
___ CHEM 111	Principles of Gen. College Chemistry I	5
___ CHEM 112	Principles of Gen. College Chemistry II	5
___ ENSI 119	Introduction to Environmental Science	4
___ GEOG 100	Physical Geography	4
___ GEOL 101	Physical Geology	4
___ GEOL 102	Historical Geology	4
___ GEOL 123	Geology of Idaho and the Pacific NW	4
___ PHYS 101	Fundamentals of Physical Science	4
___ PHYS 103	Elementary Astronomy	4
___ PHYS 111	General Physics I	4
___ PHYS 211	Engineering Physics I	5
___ ZOO 202	General Zoology	4

**GEM 5 - HUMANISTIC AND ARTISTIC WAYS OF KNOWING**

Complete at least 6 credits including courses from two different disciplines:

___ AIST 285	American Indian Literature	3
___ ART 100	Survey of Art	3
___ ART 101	History of Western Art I	3
___ ART 102	History of Western Art II	3
___ CINA 126	Film and International Culture	3
___ COMM 220	Intro to Intercultural Communication	3
___ ENGL 175	Introduction to Literature	3
___ ENGL 257	Literature of Western Civilization	3
___ ENGL 258	Literature of Western Civilization	3
___ ENGL 267	Survey of English Literature	3
___ ENGL 268	Survey of English Literature	3
___ ENGL 271	Introduction to Shakespeare	3
___ ENGL 277	Survey of American Literature	3
___ ENGL 278	Survey of American Literature	3
___ ENGL 285	American Indian Literature	3
___ FLAN 207	Contemporary World Culture	3
___ HUMS 101	Montage: Intro to the Humanities	3
___ HUMS 126	Film and International Culture	3
___ HUMS 200	Interdisciplinary Seminar	3
___ INTR 200	Interdisciplinary Seminar	3
___ MUSH 101	Survey of Music	3
___ MUSH 127	Survey of American Popular Music	3
___ MUSH 163	Survey of World Music	3
___ PHIL 101	Introduction to Philosophy	3
___ PHIL 103	Ethics	3
___ PHIL 111	World Religions	3
___ PHIL 201	Logic and Critical Thinking	3
___ PHIL 205	Political and Social Philosophy	3
___ PHIL 220	Asian Philosophy	3
___ POLS 208	Political and Social Philosophy	3
___ THEA 101	Introduction to Theatre	3

Completion of one or more Modern Language course from the list below counts as only one Humanistic and Artistic Ways of Knowing discipline.

___ ASL 101	Elementary American Sign Language I	5
___ ASL 102	Elementary American Sign Language II	5
___ FREN 101	Elementary French I	5
___ FREN 102	Elementary French II	5
___ GERM 101	Elementary German I	5
___ GERM 102	Elementary German II	5
___ ITAL 101	Elementary Italian I	5
___ ITAL 102	Elementary Italian II	5
___ SPAN 101	Elementary Spanish I	5
___ SPAN 102	Elementary Spanish II	5

**GEM 6 - SOCIAL AND BEHAVIORAL WAYS OF KNOWING**

Complete at least 6 credits, including courses from two different disciplines:

___ AIST 101	Intro to American Indian Studies	3
___ ANTH 100	Intro to Anthropology	3
___ ANTH 220	Peoples of the World	3



**GENERAL EDUCATION REQUIREMENTS (GEM)**

___	CHD	134	Infancy through Middle Childhood	3
___	COMJ	140	Mass Media in a Free Society	3
___	COMM	233	Interpersonal Communication	3
___	ECON	201	Macroeconomics	3
___	ECON	202	Microeconomics	3
___	HIST	101	History of Civilization to 1500	3
___	HIST	102	History of Civilization since 1500	3
___	HIST	103	History of Civilization 20th Century	3
___	HIST	111	U.S. History: Discovery-Reconstruction	3
___	HIST	112	U.S. History: Gilded Age-The Present	3
___	HIST	211	History of the Americas I	3
___	HIST	212	History of the Americas II	3
___	POLS	101	American National Government	3
___	POLS	237	International Politics and Problems	3
___	PSYC	101	Introduction to Psychology	3
___	SOC	101	Introduction to Sociology	3
___	SOC	102	Social Problems	3

**GEM 7 - INSTITUTIONALLY DESIGNATED**

**Complete this Integrative course: (3 credits)**

___	INTR	250	Integrative Inquiry	3
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**Complete one Wellness course from the following: (1-3 credits)**

___	MUSA	114	Individual Instruction	2
___	MUSA	130	Introduction to Piano	1
___	MUSA	145	Piano Class I	1
___	MUSP	103	Cardinal Chorale	1
___	MUSP	104	Vocal Jazz Ensemble	1
___	MUSP	106	North Idaho College Wind Symphony	1
___	MUSP	107	Cardinal Pep Band	1
___	MUSP	110	Vocal Ensemble	1
___	MUSP	111	Instrumental Ensemble	1
___	MUSP	113	North Idaho Jazz Ensemble	1
___	NURS	115	Wellness for Care Providers	1
___	PE	101	Varsity Strength Training	1
___	PE	103	Varsity Strength Training	1
___	PE	110E	Beginning Yoga	1
___	PE	110F	Cardiovascular Training	1
___	PE	110J	Jogging/Powerwalking	1
___	PE	110PP	Cross-Country Skiing	1
___	PE	110R	Strength Training	1
___	PE	110VV	CrossFit	1
___	PE	111B	Beginning Golf	1
___	PE	111D	Racquetball	1
___	PE	201	Varsity Strength Training	1
___	PE	203	Varsity Strength Training	1
___	PE	222	Wellness Lifestyles	3
___	PE	226	Stress Management	3
___	PE	288	Advanced First Aid	3
___	SOC	220	Marriage and Family	3

## GENERAL EDUCATION REQUIREMENTS

The **Associate of Applied Science Degree** is designed to provide training in specialized skills that can connect with immediate employment opportunities. It is not intended as a preparation for transfer to bachelor's degree programs, although many credits may transfer to other institutions. To qualify for an A.A.S. degree a candidate must:

1. Complete a minimum of 60 semester credits of 100- and 200-level courses with a grade point average of 2.00 (C) or better in all work attempted; **and**
2. Complete a minimum of 15 credits of general education coursework selected from the core listed below; **and**
3. Satisfy all core and program requirements with a grade of C- or better in each course. Candidates should reference their program guideline for a full list of requirements for graduation.

**NOTE:** Individual programs may require specific courses listed under the headings below.

The complete list of courses and course descriptions is available beginning on page 53 of the 2017-2018 catalog. [www.nic.edu/catalog](http://www.nic.edu/catalog)

### GEM 1 - WRITTEN COMMUNICATION

**Complete this course (3 credits)**

\_\_\_ ENGL 101 English Composition 3

### GEM 2 - ORAL COMMUNICATION

**Complete this course: (3 credits)**

\_\_\_ COMM 101 Intro to Speech Communication 3

### GEM 3 - MATHEMATICAL WAYS OF KNOWING

**Complete one of the following: (3-5 credits)**

\_\_\_ MATH 123 Contemporary Mathematics 3  
 \_\_\_ MATH 130 Finite Mathematics 4  
 \_\_\_ MATH 143 College Algebra 3  
 \_\_\_ MATH 147 Pre-Calculus 5  
 \_\_\_ MATH 160 Survey of Calculus 4  
 \_\_\_ MATH 170 Analytic Geometry and Calculus I 4  
 \_\_\_ MATH 253 Principles of Applied Statistics 3

### GEM 6 - SOCIAL AND BEHAVIORAL WAYS OF KNOWING

**Complete one of the following: (3 credits)**

\_\_\_ AIST 101 Intro to American Indian Studies 3  
 \_\_\_ ANTH 100 Intro to Anthropology 3  
 \_\_\_ CHD 134 Infancy through Middle Childhood 3  
 \_\_\_ COMJ 140 Mass Media in a Free Society 3  
 \_\_\_ COMM 233 Interpersonal Communication 3  
 \_\_\_ ECON 201 Macroeconomics 3

___ ECON	202	Microeconomics	3
___ HIST	101	History of Civilization to 1500	3
___ HIST	102	History of Civilization since 1500	3
___ HIST	103	History of Civilization 20th Century	3
___ HIST	111	U.S. History: Discovery-Reconstruction	3
___ HIST	112	U.S. History: Gilded Age-The Present	3
___ HIST	211	History of the Americas I	3
___ HIST	212	History of the Americas II	3
___ POLS	101	American National Government	3
___ POLS	237	International Politics and Problems	3
___ PSYC	101	Introduction to Psychology	3
___ SOC	101	Introduction to Sociology	3
___ SOC	102	Social Problems	3

### INSTITUTIONALLY DESIGNATED

**Complete the following course or any other 3-5 credit course from GEM 1 or GEM 3-6 listed on pages 48-49.**

\_\_\_ INTR 250 Integrative Inquiry 3

### CAREER AND TECHNICAL REQUIREMENTS

In addition to the general education requirements listed above, candidates for an A.A.S. degree must complete 45 credits or more in their specific career and technical program.

## ADVISING SERVICES

A North Idaho College advisor is actively engaged in providing students with the educational guidance and assistance they need to be successful students. Advising is a continuous process of connecting with students, helping them clarify their academic and career goals, while also introducing and reinforcing their use of various campus resources. By collaborating with staff and faculty across campus, advisors participate in providing positive institutional experiences that aid in student academic and personal success.

An advisor is assigned to a student based on their program of study. An advisor may be professional advisor, a faculty advisor and/or an athletic coach. To find out who your advisor is, log in to MyNIC and click on Services—Student Menu—Academic Profile—My Profile—Advisor Name. You may then look up your advisor's name in the NIC Directory and contact them to schedule an appointment. Advisors are assigned approximately four weeks into the semester. If you have questions about your advisor assignment, please contact Advising Services at (208) 769-7821.

Advising at NIC is a team approach between faculty, staff, and students.

### **Advisors:**

- Are dedicated to the advising process and exhibit a caring attitude toward advisees.
- Are accessible to students.
- Help students clarify career/life goals as well as educational goals.
- Are familiar with institutional regulations, policies and procedures especially as they relate to academic and/or graduation requirements.





# Program Guidelines

North Idaho College 2017-2018



# Accounting Assistant–Bookkeeping Emphasis

## Intermediate Technical Certificate

### Career and Technical Program

The Accounting Assistant program prepares students for occupational opportunities in the field of bookkeeping including payroll clerk, accounts receivable clerk, accounts payable clerk, and full-charge bookkeeper. Bookkeeping and related fields involve the day-to-day analyzing and recording of business transactions, preparing payroll, preparing financial reports, filing state and federal forms, and analysis and decision making. Students will complete general education, general business, and accounting specific courses that will lead to an intermediate technical certificate, an advanced technical certificate, or an associate of applied science degree. Emphasis is placed on manual and computerized accounting applications, current business taxes, credit, collection, and payroll. During the final semester of the A.A.S. degree, students will participate in an accounting internship which is the capstone course for this program. The internship will include tips on job hunting, 135 hours of an off-campus internship, resume writing, interviewing skills, and occupational relations.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
ACCT-110	Small Business Accounting	3
	or ACCT-201 Principles of Accounting	(3)
ACCT-150	10-Key Skill Building	1
BLDR-120	Financial Business Applications	3
	or _____ A.A.S. Mathematical Ways of Knowing (3-5)	3
BUSA-101	Introduction to Business	3
CAOT-115	Outlook	1
CAOT-120	Word Processing/Word I	1
CAOT-130	Spreadsheets/Excel I	1
ENGL-101	English Composition	3

**Semester Total 16-18**

#### Second Semester

ACCT-111	Small Business Accounting II	3
	or ACCT-202 Managerial Accounting	(3)
ACCT-113	Payroll Accounting	3
ACCT-140	QuickBooks Pro	3
BUSA-211	Principles of Management	3
CAOT-131	Spreadsheets II	1
CAOT-140	Database/Access I	1
ENGL-272	Business Writing	3

**Semester Total 17**  
**Program Total 33-35**

# Accounting Assistant–Bookkeeping Emphasis

## Advanced Technical Certificate

### Career and Technical Program

The Accounting Assistant program prepares students for occupational opportunities in the field of bookkeeping including payroll clerk, accounts receivable clerk, accounts payable clerk, and full-charge bookkeeper. Bookkeeping and related fields involve the day-to-day analyzing and recording of business transactions, preparing payroll, preparing financial reports, filing state and federal forms, and analysis and decision making. Students will complete general education, general business, and accounting specific courses that will lead to an Intermediate Technical Certificate, an Advanced Technical Certificate, or an Associate of Applied Science Degree. Emphasis is placed on manual and computerized accounting applications, current business taxes, credit, collection, and payroll. During the final semester of the A.A.S. degree, students will participate in an accounting internship which is the capstone course for this program. The internship will include tips on job hunting, 135 hours of an off-campus internship, resume writing, interviewing skills, and occupational relations.

Note: To meet industry recommendations keyboarding skills need to be at least 35 wpm with 95% accuracy. Keyboarding skill will be assessed in the CAOT-120 course.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
ACCT-110	Small Business Accounting	3
	or ACCT-201 Principles of Accounting	(3)
ACCT-150	10-Key Skill Building	1
BLDR-120	Financial Business Applications	3
	or _____ A.A.S. Mathematical Ways of Knowing (3-5)	
BUSA-101	Introduction to Business	3
CAOT-130	Spreadsheets/Excel I	1
ENGL-101	English Composition	3

**Semester Total 14-16**

#### Second Semester

ACCT-111	Small Business Accounting II	3
	or ACCT-202 Managerial Accounting	(3)
CAOT-115	Outlook	1
CAOT-120	Word Processing/Word I	1
CAOT-131	Spreadsheets/Excel II	1
CAOT-140	Database/Access I	1
COMM-101	Introduction to Speech Communication	3
PSYC-101	Introduction to Psychology	3

**Semester Total 13**

#### Third Semester

ACCT-140	QuickBooks Pro	3
ACCT-244	Credit and Collections	3
ACCT-246	Current Business Taxes	3
BUSA-211	Principles of Management	3

**Semester Total 12**

#### Fourth Semester

ACCT-113	Payroll Accounting	3
ACCT-138	Accounting for Managers	3
ACCT-242	Cost Accounting	3
ACCT-248	Accounting Internship	4
CAOT-250	Office Skills Capstone	1

**Semester Total 14**

**Program Total 53-55**



# Accounting Assistant

## Associate of Applied Science Degree

### Career and Technical Program

The Accounting Assistant program prepares students for occupational opportunities in the field of bookkeeping including payroll clerk, accounts receivable clerk, accounts payable clerk, and full-charge bookkeeper. Bookkeeping and related fields involve the day-to-day analyzing and recording of business transactions, preparing payroll, preparing financial reports, filing state and federal forms, and analysis and decision-making. Students will complete general education, general business, and accounting specific courses that will lead to an Intermediate Technical Certificate, an Advanced Technical Certificate, or an Associate of Applied Science Degree. Emphasis is placed on manual and computerized accounting applications, current business taxes, credit, collection, and payroll. During the final semester of the A.A.S. degree, students will participate in an accounting internship which is the capstone course for this program. The internship will include tips on job hunting, 135 hours of an off-campus internship, resume writing, interviewing skills, and occupational relations.

Note: To meet industry recommendations keyboarding skills need to be at least 35 wpm with 95% accuracy. Keyboarding skill will be assessed in the CAOT-120 course.

### Program Requirements

#### First Semester

Course No.	Title	Credits
ACCT-110	Small Business Accounting	3
or ACCT-201	Principles of Accounting	(3)
ACCT-150	10-Key Skill Building	1
BUSA-101	Introduction to Business	3
CAOT-120	Word Processing/Word I	1
CAOT-130	Spreadsheets/Excel I	1
CAOT-131	Spreadsheets/Excel II	1
ENGL-101	English Composition <sup>1</sup>	<u>3</u>

**Semester Total 13**

#### Second Semester

ACCT-111	Small Business Accounting II	3
or ACCT-202	Managerial Accounting	(3)
ACCT-113	Payroll Accounting	3
ACCT-140	QuickBooks Pro	3
CAOT-121	Word Processing/Word II	1
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
_____	A.A.S. Mathematical Ways of Knowing <sup>2</sup>	<u>3-5</u>

**Semester Total 16-18**

#### Third Semester

ACCT-138	Accounting for Managers	3
ACCT-244	Credit and Collections	3
ACCT-246	Current Business Taxes	3
CAOT-140	Database/Access I	1
CAOT-115	Outlook	1
ENGL-272	Business Writing	3
PSYC-101	Introduction to Psychology <sup>1</sup>	<u>3</u>

**Semester Total 17**

#### Fourth Semester

ACCT-242	Cost Accounting	3
ACCT-248	Accounting Internship	4
BUSA-265	Legal Environment of Business	3
CAOT-250	Office Skills Capstone	1
BUSA-211	Principles of Management	3
ECON-201	Principles of Economics (macro) <sup>1</sup>	<u>3</u>

**Semester Total 17**

**Program Total 63-65**

#### Notes:

<sup>1</sup> Satisfies the A.A.S. degree general education requirement.

<sup>2</sup> Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirements listed on page 50.

# Administration of Justice

## Associate of Applied Science Degree

### Career and Technical Program

The Administration of Justice program is an option designed for working law enforcement professionals who aspire to have, or are entering, supervisory or administrative positions. Credit will be awarded for POST coursework. This program has a selective admissions process. Contact the Coordinator for Career and Technical Student Support Services or the Director of the NIC Basic Patrol Academy for more information.

### Program Requirements

Course No.	Title	Credits
<b>First Semester</b>		
BUSA-100	Digital Literacy in Business	3
ENGL-101	English Composition	3
LAWE	Law Enforcement Electives <sup>1</sup>	5
POLS-101	American National Government	3
PSYC-101	Introduction to Psychology	3
		<b>Semester Total 17</b>
<b>Second Semester</b>		
COMM-101	Introduction to Speech Communication	3
LAWE	Law Enforcement Electives <sup>1</sup>	5
POLS-275	State and Local Government	3
SOC-101	Introduction to Sociology	3
		<b>Semester Total 14</b>
<b>Third Semester</b>		
COMM-233	Interpersonal Communication	3
or COMM-236	Small Group Communication	(3)
ENGL-202	Technical Writing	3
LAWE	Law Enforcement Electives <sup>1</sup>	5
_____	A.A.S. Mathematical Ways of Knowing <sup>2</sup>	3-5
		<b>Semester Total 14-16</b>
<b>Fourth Semester</b>		
PHIL-103	Ethics	3
PHIL-201	Logic and Critical Thinking	3
PSYC-205	Developmental Psychology	3
or PSYC-211	Abnormal Psychology	(3)
or PSYC-223	Stress Management	(3)
_____	Sociology Electives	6
		<b>Semester Total 15</b>
		<b>Program Total 60-62</b>
<b>Law Enforcement Electives</b>		
LAWE-103	Introduction to Criminal Justice (same as CJ-103)	3
LAWE-202	Corrections in America (same as CJ-202)	3
LAWE-205	Criminal Procedure (same as CJ-205)	3
LAWE-250	Self Defense <sup>1</sup>	2
LAWE-251	Basic Police Law <sup>1</sup>	3
LAWE-252	Professional Orientation for Peace Officers <sup>1</sup>	2
LAWE-253	Police Procedures <sup>1</sup>	4
LAWE-254	Patrol Procedures <sup>1</sup>	2
LAWE-255	Field Skills for Patrol Officers <sup>1</sup>	1
LAWE-256	Investigation <sup>1</sup>	3
LAWE-257	Enforcement Skills <sup>1</sup>	2
LAWE-258	Police Physical Fitness <sup>1</sup>	1
<b>Sociology Electives</b>		
SOC-155	Drug Abuse: Fact, Fiction, and the Future	3
SOC-220	Marriage and Family	3
SOC-251	Race and Ethnic Relations	3
SOC-283	Death and Dying	3

#### Notes:

- <sup>1</sup> POST Academy courses may satisfy the requirement for LAWE-250-258.
- <sup>2</sup> Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirement listed on page 50.

# Administrative Assistant

## Associate of Applied Science Degree

### Career and Technical Program

The Administrative Assistant program combines a well-balanced academic program with expert administrative and computer instruction to give students the diversified educational training and background needed to hold a position of responsibility and importance in many areas of the business world. This program helps raise administrative skills to a professional level, gives the student a technical background through completion of technical skill courses, and includes an academic component that provides a mature understanding of professional responsibilities in our global economy. The administrative assistant has a variety of options in offices of their interest. These might be in travel, sports, or entertainment; banking, insurance, or real estate; technical, government, or foreign service; and public, private, or temporary agencies.

### Program Requirements

#### First Semester

Course No.	Title	Credits
BLDR-120	Financial Business Applications	3
BUSA-101	Introduction to Business	3
CAOT-120	Word Processing/Word I	1
CAOT-121	Word Processing/Word II	1
CAOT-122	Word Processing/Word III	1
CAOT-150	PowerPoint I	1
CAOT-164	Computer Fundamentals for Tech Programs	1
CAOT-183	Business Editing and Proofreading	3
CAOT-204	Career Leadership	1
CSC-106	College Internet Skills	1
<b>Semester Total</b>		<b>16</b>

#### Second Semester

CAOT-115	Outlook	1
CAOT-130	Spreadsheets/Excel I	1
CAOT-131	Spreadsheets/Excel II	1
CAOT-132	Spreadsheets/Excel III	1
CAOT-140	Database/Access I	1
CAOT-210	Office Procedures	3
ENGL-101	English Composition <sup>1</sup>	3
Two of the following courses:		<u>5-6</u>
A TEC-117	Occupational Relations/Job Search	
BLDR-105	Customer Service	
BLDR-110	Supervisory Management	
ENTP-105	Entrepreneurship Skills	
<b>Semester Total</b>		<b>16-17</b>

#### Third Semester

ACCT-110	Small Business Accounting	3
or ACCT-201	Principles of Accounting <sup>2</sup>	(3)
CAOT-166	Living Online for Tech Programs	1
CAOT-184	Records Systems Management	3
CAOT-205	Business Document Formatting/Transcription	2
CAOT-220	Administrative Support Internship I	3
COMM-101	Introduction to Speech Communication <sup>1</sup>	<u>3</u>
<b>Semester Total</b>		<b>15</b>

#### Fourth Semester

ACCT-150	10-Key Skill Building	1
CAOT-221	Administrative Assistant Internship II	3
CAOT-250	Office Skills Capstone	1
PSYC-101	Introduction to Psychology <sup>1</sup>	3
_____	A.A.S. Mathematical Ways of Knowing <sup>3</sup>	3-5
_____	A.A.S. Institutionally Designated <sup>4</sup>	<u>3</u>
<b>Semester Total</b>		<b>14-16</b>
<b>Program Total</b>		<b>61-64</b>

#### Notes:

- <sup>1</sup> Satisfies the A.A.S. degree general education requirement.
- <sup>2</sup> Students intending to obtain a four-year degree should take ACCT-201.
- <sup>3</sup> Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>4</sup> Select from the A.A.S. degree requirements listed on page 50.

# Aerospace Composite Fabrication

## Basic Technical Certificate

### Career and Technical Program

This program prepares students for entry-level employment in the aerospace composites manufacturing industries. The curriculum provides students with the skills necessary to work in various phases of the composite fabrication and repair, and teaches industry recognized quality assurance procedures. Students receive hands-on working knowledge from a qualified instructor in a lab setting where the focus is on the manufacturing methods and techniques used in aerospace industry composite components. Coursework includes safety requirements, blueprint reading, composite fabrication and repair, geometric dimensioning and tolerance, shop math and projects specific to industry standards.

Students will participate in a blended learning environment. Some courses are delivered in an online delivery format. Prospective students should have solid math skills and demonstrate mechanical aptitude. Computer and keyboarding skills are recommended.

### Program Requirements

Course No.	Title	Credits
AERO-110	Safety/OSHA	1
AERO-111	Blueprint Reading	2
AERO-120	Introduction to Composites	3
AERO-121	Composite Fabrication Methods/Applications	2
AERO-122	Composite Finish Trim	1
AERO-123	Composite Assembly	2
AERO-130	Disassembly and Damage Removal Techniques	1
<b>Program Total</b>		<b>12</b>

# Aerospace Composite Technician

## Intermediate Technical Certificate

### Career and Technical Program

This program prepares students for entry-level employment in the aerospace composites manufacturing industries. The curriculum provides students with the skills necessary to work in various phases of the composite fabrication and repair, and teaches industry recognized quality assurance procedures. Students receive hands-on working knowledge from a qualified instructor in a lab setting where the focus is on the manufacturing methods and techniques used in aerospace industry composite components. Coursework includes safety requirements, blueprint reading, composite fabrication and repair, geometric dimensioning and tolerance, shop math and projects specific to industry standards.

Prospective students should have solid math skills and demonstrate mechanical aptitude. Computer and keyboarding skills are recommended.

Placement in specific math and English courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical program will need to take selected courses to receive necessary skill building prior to entering the program.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
AERO-110	Safety/OSHA	1
AERO-111	Blueprint Reading	2
AERO-120	Introduction to Composites	3
AERO-121	Composite Fabrication Methods/Applications	2
AERO-122	Composite Finish Trim	1
AERO-123	Composite Assembly	2
AERO-130	Disassembly and Damage Removal Techniques	1
MCTE-103	Technical Mathematics for Aerospace Technology (or higher)	3-5

**Semester Total 15-17**

#### Second Semester

AERO-131	Composite Repair	2
AERO-133	Electrical Bonding Repair	1
AERO-142	Composite Inspection	1
AERO-143	Advanced Composite Repair	3
AERO-144	Basics of Quality Assurance	2
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)

**Semester Total 12**

**Program Total 27-29**

# Aerospace Repair and Quality Assurance

## Basic Technical Certificate

### Career and Technical Program

This program provides students with the skills necessary to work in the composite industry providing quality assurance procedures and techniques. Students receive hands-on working knowledge of the manufacturing methods and techniques used in today's composite components. Students will become familiar with the materials used in the aerospace industry and with testing methods. Students receive experience from a qualified instructor in the quality assurance manufacturing methods and techniques used in today's composite industries. Students will acquire skills in composite repair through a lab and lecture course taught around disassembly and damage removal techniques. Learning opportunities develop academic and professional knowledge and skills required for job acquisition, retention and advancement. The program emphasizes specialized training in quality control processes including selection measurement, testing, testing documentation of products manufactured in the aerospace industry, blueprint reading, and safety techniques.

Prospective students should have solid math skills and demonstrate mechanical aptitude. Computer and keyboarding skills are recommended. Prospective students who do not meet the initial eligibility requirements for a career and technical program will need to take selected courses to receive necessary skill building prior to entering the program.

### Program Requirements

Course No.	Title	Credits
AERO-131	Composite Repair	2
AERO-133	Electrical Bonding Repair	1
AERO-142	Composite Inspection	1
AERO-143	Advanced Composite Repair	3
AERO-144	Basics of Quality Assurance	<u>2</u>
<b>Program Total</b>		<b>9</b>

# Aerospace Technology Advanced Manufacturing

## Advanced Technical Certificate

### Career and Technical Program

This program prepares students for entry-level employment in the aerospace technology manufacturing specifically pertaining to composite fabrication and repair, Quality Assurance methods, CNC machine operation, and non-destructive testing and inspection. The curriculum provides students with the knowledge and skills necessary to work in various phases of the aerospace advanced manufacturing field. Students receive hands-on working knowledge from a qualified instructor in a lab setting where the focus is on manufacturing fabrication, repair, quality assurance, and non-destructive testing methods used by the aerospace industry.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Electives:

AERO-101	Aviation Science	3
AERO-160	Introduction to 3-D Printing	3
AERO-192	Liquid Penetrant	1
AERO-193	Magnetic Particle	2
AERO-194	Eddy Current	3
AERO-195	Ultrasonic	4
CADT-104M	CAD Graphics I - Mechanical	2
CADT-106M	CAD Graphics II - Mechanical	2
CADT-250	Solid Works I	2
CADT-252	Solid Works II	2
CADT-253	Industrial Processes	3
MACH-153	Precision Measuring	1
MACH-231	Computers in Machining	3

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
AERO-110	Safety/OSHA	1
AERO-111	Blueprint Reading	2
AERO-120	Introduction to Composites	3
AERO-121	Composite Fabrication Methods/Applications	2
AERO-122	Composite Finish Trim	1
AERO-123	Composite Assembly	2
AERO-130	Disassembly and Damage Removal Techniques	1
MCTE-103	Technical Mathematics for Aerospace Technology (or higher)	3
or MCTE-101	Technical Mathematics	(3)
or MCTE-105	Technical Mathematics for Machining and Computer Aided Design Technologies	(3)
or MCTE-106	Technical Mathematics for Industrial Mechanic/Millwright; Heating, Ventilation, Aid Conditioning, and Refrigeration; Welding	(3)
or _____	A.A.S. Mathematical Ways of Knowing <sup>1</sup>	(3-5)
		<b>Semester Total 15-17</b>

#### Second Semester

AERO-131	Composite Repair	2
AERO-133	Electrical Bonding Repair	1
AERO-142	Composite Inspection	1
AERO-143	Advanced Composite Repair	3
AERO-144	Basics of Quality Assurance	2
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
		<b>Semester Total 12</b>

#### Third Semester

AERO-191	Visual Inspection	1
_____	Aerospace Technology Advanced Manufacturing Electives	10
		<b>Semester Total 11</b>

#### Fourth Semester

AERO-141	Geometric Dimensioning and Tolerance	1
AERO-150	Computer Numerical Control (CNC) Mill Basics	2
AERO-152	Computer Numerical Control (CNC) Mill Setup and Operation	3
AERO-153	Aerospace Computer Numerical Control (CNC) Mill Operation	3
AERO-154	5-Axis Mill Setup and Operation	3
ATEC-117	Occupational Relations and Job Search	2
		<b>Semester Total 14</b>
		<b>Program Total 52-54</b>

<sup>1</sup> Select from the A.A.S. degree requirements listed on page 50.

# Aerospace Technology Advanced Manufacturing

## Associate of Applied Science

### Career and Technical Program

This program prepares students for entry-level employment in the aerospace technology manufacturing specifically pertaining to composite fabrication and repair, Quality Assurance methods, CNC machine operation, and non-destructive testing and inspection. The curriculum provides students with the knowledge and skills necessary to work in various phases of the aerospace advanced manufacturing field. Students receive hands-on working knowledge from a qualified instructor in a lab setting where the focus is on manufacturing fabrication, repair, quality assurance, and non-destructive testing methods used by the aerospace industry.

#### Electives:

AERO-101	Aviation Science	3
AERO-160	Introduction to 3-D Printing	3
AERO-192	Liquid Penetrant	1
AERO-193	Magnetic Particle	2
AERO-194	Eddy Current	3
AERO-195	Ultrasonic	4
ATEC-117	Occupational Relations and Job Search	2
CADT-104M	CAD Graphics I - Mechanical	2
CADT-106M	CAD Graphics II - Mechanical	2
CADT-250	Solid Works I	2
CADT-252	Solid Works II	2
CADT-253	Industrial Processes	3
MACH-153	Precision Measuring	1
MACH-231	Computers in Machining	3

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
AERO-110	Safety/OSHA	1
AERO-111	Blueprint Reading	2
AERO-120	Introduction to Composites	3
AERO-121	Composite Fabrication Methods/Applications	2
AERO-122	Composite Finish Trim	1
AERO-123	Composite Assembly	2
AERO-130	Disassembly and Damage Removal Techniques	1
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup>	<u>3-5</u>
		<b>Semester Total 15-17</b>

#### Second Semester

AERO-131	Composite Repair	2
AERO-133	Electrical Bonding Repair	1
AERO-142	Composite Inspection	1
AERO-143	Advanced Composite Repair	3
AERO-144	Basics of Quality Assurance	2
ENGL-101	English Composition <sup>2</sup>	3
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>1</sup>	<u>3</u>
		<b>Semester Total 15</b>

#### Third Semester

AERO-191	Visual Inspection	1
_____	A.A.S. Institutionally Designated <sup>1</sup>	3
_____	Aerospace Technology Advanced Manufacturing Electives	<u>11</u>
		<b>Semester Total 15</b>

#### Fourth Semester

AERO-141	Geometric Dimensioning and Tolerance	1
AERO-150	Computer Numerical Control (CNC) Mill Basics	2
AERO-152	Computer Numerical Control (CNC) Mill Setup and Operation	3
AERO-153	Aerospace Computer Numerical Control (CNC) Mill Operation	3
AERO-154	5-Axis Mill Setup and Operation	3
COMM-101	Introduction to Speech Communication <sup>1</sup>	<u>3</u>
		<b>Semester Total 15</b>
		<b>Program Total 60-62</b>

#### Notes:

<sup>1</sup> Select from the A.A.S. degree requirements listed on page 50.

<sup>2</sup> Satisfies the A.A.S. degree general education requirement.



# Aerospace Technology Computer Numerical Control (CNC) Mill Operation

## Basic Technical Certificate

### Career and Technical Program

This program prepares students for entry-level employment in the Aerospace manufacturing industries utilizing Computer Numerical Control (CNC) Mills. The curriculum will provide students with the fundamental skills necessary to setup and run CNC milling machines including setting work and cutter offsets, cutter and tool holder selection, speeds and feeds, the use of work holding fixtures and vises, handwork and inspection, along with the basics of G-code and an intro to Mastercam. The program will also provide students with an understanding of machining aircraft alloys and composites along with the basics of 5-axis and using a probe. Students will participate in a blended learning environment. Some courses are delivered in an online delivery format. Prospective students should have solid math skills and demonstrate mechanical aptitude. Computer and keyboarding skills are recommended.

### Program Requirements

Course No.	Title	Credit Hrs
AERO-110	Safety/OSHA	1
AERO-111	Blueprint Reading	2
AERO-141	Geometric Dimensioning and Tolerance	1
AERO-150	Computer Numerical Control (CNC) Mill Basics	2
AERO-152	CNC Mill Setup and Operation	3
AERO-153	Aerospace CNC Mill Operation	3
AERO-154	5-Axis Mill Setup and Operation	3
<b>Program Total</b>		<b>15</b>

# Aerospace Technology Core

## Basic Technical Certificate

### Career and Technical Program

This program prepares students for entry-level employment in the aerospace manufacturing industry. The curriculum provides students with the skills necessary to become a fabrication assistant. These courses also prepare students for entry into more advanced training in the manufacturing skills of composite fabrication, computer numerical control (CNC) mill operation and nondestructive testing. Coursework includes safety requirements, blueprint reading, introduction to composite materials, and an introduction to CNC mill basics. Students will participate in a blended learning environment. Courses are delivered in an online delivery format. Prospective students should have solid math skills and demonstrate mechanical aptitude. Computer and keyboarding skills are recommended.

The Aerospace program features many short-term certificates. These certificates are made up of clusters of related courses that can prepare students for specific work-related job skills in the aerospace industry. Students achieve this stand-alone certificate before continuing into either the Aerospace Composite Fabrication Basic Technical Certificate program or the CNC Mill Operation Basic Technical.

Certificate taken simultaneously.

### Program Requirements

Course No.	Title	Credits
AERO-110	Safety/OSHA	1
AERO-111	Blueprint Reading	2
AERO-120	Introduction to Composites	3
AERO-150	Computer Numerical Control Mill Basics	2
		<b>Program Total 8</b>

# Aerospace Technology Nondestructive Testing and Inspection

## Basic Technical Certificate

### Career and Technical Program

This program prepares students for entry-level employment as a Nondestructive Testing Technician to be placed in a position to be certified by industry. The program will provide quality, hands-on education with the industry's most current and sophisticated testing equipment. Nondestructive Testing and Inspection technicians are increasingly in demand. This program will provide students with the information required to be trained technicians who understand NDT's role in the aerospace industry and who have knowledge of American Society for Nondestructive Testing (ASNT) standards and been trained in NDT methods, including liquid penetrant, magnetic particle, and visual inspection processes, eddy current, ultrasonic testing. Students will also learn the basics of materials and processes associated with NDT technology. Nondestructive evaluation (NDE) utilizes a number of techniques to determine the health of an engineering component or structure without affecting its usefulness.

### Program Requirements

Course No.	Title	Credit Hrs
AERO-101	Aviation Science	3
AERO-191	Visual Inspection	1
AERO-192	Liquid Penetrant	1
AERO-193	Magnetic Particle	2
AERO-194	Eddy Current	3
AERO-195	Ultrasonic	4
<b>Program Total</b>		<b>14</b>

# American Indian Studies

## Associate of Arts Degree

### Transfer Program

The American Indian Studies program was designed in collaboration with the Coeur d'Alene Tribe and examines the contemporary and ancient experiences and ways of life of the first peoples of North America from their perspective. The curriculum is designed to provide a study of American Indians from a holistic and humanistic viewpoint by focusing on their cultural, historical, and contemporary life. It is an interdisciplinary program drawing on the arts, humanities, social sciences, natural resources, science, and professional studies.

This program satisfies the requirements for an associate's academic transfer degree and is intended to serve both Indian and non-Indian students. Course selections should be tailored to match requirements of the intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing <sup>1</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
AIST-101	Introduction to American Indian Studies	3
AIST-225	Native People of North America	3
	or ANTH-225 Native People of North America	(3)
AIST-285	American Indian Literature	3
	or ENGL-285 American Indian Literature	(3)
AIST-240	American Indian History	3
	or HIST-240 American Indian History	(3)

#### Elective Requirements

Courses 100-level or higher	16-18
<b>Total Credits (minimum) 60</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is partially met by the Program Requirements.

# American Sign Language Studies

## Associate of Arts Degree

### Transfer Program

This program at NIC will prepare students for transfer to a four-year program in pursuit of careers in the signing professions. Course work is designed to provide information on the linguistic, historical, and cultural background of the American deaf community.

An associate's degree with emphasis in American Sign Language Studies meets the general education requirements at all Idaho public universities. Course selection should be coordinated to meet requirements for the intended transfer institution's related majors. Such related majors may include: Deaf Studies, Early Childhood Education, Vocational Rehabilitation, and Sign Language Interpreting. Other professions that would benefit from this acquired skill and knowledge may include careers in human services, education, social services, and business.

Note: This is not an Interpreter Training Program (ITP), but most courses transfer to satisfy some ITP requirements at the transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
ASL-101	Elementary American Sign Language I	5
ASL-102	Elementary American Sign Language II	5
ASL-126	Introduction to American Sign Language	3
ASL-201	Intermediate American Sign Language I	4
ASL-202	Intermediate American Sign Language II	4
ASL-207	Deaf Culture and Community	3
ASL-210	American Sign Language Linguistics	3
ASL-225	Signing Professions	3
ASL-260	Creative Sign Language	3

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum) 66</b>	

#### Notes:

<sup>1</sup> This General Education Requirement is partially met by the Program Requirements.

# Anthropology

## Associate of Arts Degree

### Transfer Program

Anthropology is the study of humans and our immediate ancestors. Anthropologists explore human cultural and biological diversity across time and space. Central to this endeavor is an emphasis upon understanding the whole of the human condition, attentive to the variety of ways in which culture, society, biology, and the environment influence how humans see and interact with the world. Anthropology includes the sub-disciplines of archaeology, cultural anthropology, biological (physical) anthropology, and linguistics. The curriculum is designed to provide students with an understanding of the basic foundations of anthropology and to prepare them to transfer to a university for further studies toward a bachelor's or advanced degree.

The skills and scope of knowledge developed in an anthropology program prepares students for work in a variety of settings, both in public and private sectors in the U.S. and abroad. Because of the interdisciplinary nature of anthropology, many teach across a broad spectrum of disciplines in the humanities, social sciences, health sciences, physical sciences, and biological sciences. Outside the university, anthropologists work in government agencies, private businesses, museums, private research institutes, service fields, cultural resource management, etc. Others work as independent consultants and researchers for the Centers for Disease Control, UNESCO, the World Health Organization, and the World Bank, among others.

Completion of the program is designed to result in an associate's degree, and meets the general education requirements at all Idaho public universities. Course selections should be tailored to match requirements of the intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>2</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
ANTH-100	Introduction to Anthropology	3
ANTH-220	Peoples of the World	3
MATH-253	Principles of Applied Statistics	3

#### Choose one course from the following: 3-4

MATH-130	Finite Mathematics
MATH-143	College Algebra

#### Choose two courses from the following: 6

ANTH-225	Native People of North America	6
or AIST-225	Native People of North America	
ANTH-230	Introduction to Archaeology and World Prehistory	6
ANTH-251	Introduction to Biological Anthropology	

#### Elective Requirements

Courses 100-level or higher	11-12
<b>Total Credits (minimum) 60</b>	

#### Recommended Courses

AIST-101	American Indian Studies	3
BIOL-175	Human Biology	4
COMM-220	Introduction to Intercultural Communication	3
HIST-101	History of Civilization to 1500	3
SOC-251	Race and Ethnic Relations	3
_____	Modern Lanuage	8

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is partially met by the Program Requirements.

# Art

## Associate of Arts Degree

### Transfer Program

The Art program provides a broad introduction to the vocabulary, media, tools, processes, styles, and themes in the visual arts.

The art curriculum teaches students to develop high levels of individual artistic awareness and expression through their study of the elements of art and principles of design that are the basis of a wide range of transfer programs. In the ever-changing world of the visual arts, using new media and tools requires in-depth understanding of and skill in traditional art-making processes to develop visual literacy, conceptual capacities, and critical thinking. Courses teach technical and formal skills, exploration of creative processes, and clear communication of visual ideas.

Pursuing a degree in Art leads students into a range of careers and opportunities in the contemporary art world. These professions include art-making in ceramics, drawing, painting, photography, printmaking, and sculpture; teaching art at all levels of education; and working in fields such as architecture, art history, art restoration, art therapy, design (including interior, industrial, graphic, product, furniture, theater set, and others), film, galleries, illustration, museums and public art. The Art Department maintains a gallery for students, NIC, and the wider community as a visual arts resource in the region.

Completion of the following courses results in an associate's degree and meets the general core requirements at all Idaho public institutions. The suggested coursework below normally fulfills the first half of baccalaureate degree requirements for Art. Course selection should be tailored to match requirements defined by intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
ART-100	Survey of Art	3
or ART-101	Art History From Caves to Cathedrals	(3)
or ART-102	Art History From Da Vinci to Digital	(3)
ART-111	Drawing I	2
ART-112	Drawing II	2
ART-121	2D/Design Foundations	3
ART-122	3D/Design Foundations	3
ART-217	Life Drawing I	3
ART-231	Beginning Painting I	3
or ART-232	Beginning Painting II	(3)
ART-241	Sculpture I	3
or ART-242	Sculpture II	(3)
ART-261	Ceramics I	3
ART-285	Professional Practicies	3

**Choose two courses from the following:** 6

ART-251	Printmaking I
or ART-252	Printmaking II
ART-281	Watercolor I
or ART-282	Watercolor II
PHTO-183	Introduction to Digital Photography

#### Elective Requirements

Courses 100-level or higher 0  
**Total Credits (minimum) 67**

#### Notes:

<sup>1</sup> This General Education Requirement is partially met by the Program Requirements.

# Automotive Technology

## Intermediate Technical Certificate

### Career and Technical Program

This program is designed to prepare students for employment as entry-level technicians in the automotive repair industry. All ASE (Automotive Service Excellence) areas will be taught through the use of lecture, mock-ups, and customer vehicles. Successful completion of each semester or permission of the instructor is required for admission to the next semester. Due to the complexity of today's cars, the industry requires a high degree of reading and comprehension skills. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43). The North Idaho College Automotive Technology program is NATEF certified and is taught by ASE Master Technicians.

**Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
A TEC-117	Occupational Relations and Job Search <sup>1</sup>	2
AUTO-102	Automotive Technology Fundamentals and Safety	2
AUTO-111	Manual Drive Trains and Axles	2
AUTO-118	Electrical Systems	3
AUTO-119L	Automotive Lab I	7
MCTE-104	Technical Math for Auto/Diesel/Outdoor Power/Recreational Vehicle	3
		<b>Semester Total 19</b>

#### Second Semester

AUTO-124	Brakes, Steering and Suspension	2
AUTO-127	Engine Repair	3
AUTO-129L	Automotive Lab II	7
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
		<b>Semester Total 15</b>
		<b>Program Total 34</b>

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.



# Automotive Technology

## Advanced Technical Certificate

### Career and Technical Program

This program is designed to prepare students for employment as entry-level technicians in the automotive repair industry. All ASE (Automotive Service Excellence) areas will be taught through the use of lecture, mock-ups, and customer vehicles. Successful completion of each semester or permission of the instructor is required for admission to the next semester. Due to the complexity of today's cars, the industry requires a high degree of reading and comprehension skills. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43). The North Idaho College Automotive Technology program is NATEF certified and is taught by ASE Master Technicians.

**Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
AUTO-102	Automotive Technology Fundamentals and Safety	2
AUTO-111	Manual Drive Trains and Axles	2
AUTO-118	Electrical Systems	3
AUTO-119L	Automotive Lab I	7
MCTE-104	Technical Math for Auto/Diesel/Outdoor Power/Recreational Vehicle	3
		<b>Semester Total 17</b>

#### Second Semester

AUTO-124	Brakes, Steering and Suspension	2
AUTO-127	Engine Repair	3
AUTO-129L	Automotive Lab II	7
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
		<b>Semester Total 15</b>

#### Third Semester

A TEC-117	Occupational Relations and Job Search <sup>1</sup>	2
AUTO-231	Engine Performance I	3
AUTO-233	Electrical Systems II and HVAC	2
AUTO-235L	Advanced Automotive Lab III	7
		<b>Semester Total 14</b>

#### Fourth Semester

AUTO-241	Automatic Transmissions/Transaxles	3
AUTO-243	Engine Performance II	2
AUTO-245L	Advanced Automotive Lab IV	7
		<b>Semester Total 12</b>
		<b>Program Total 58</b>

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Automotive Technology

## Associate of Applied Science Degree

### Career and Technical Program

This program is designed to prepare students for employment as entry-level technicians in the automotive repair industry. All ASE (Automotive Service Excellence) areas will be taught through the use of lecture, mock-ups, and customer vehicles. Successful completion of each semester or permission of the instructor is required for admission to the next semester. Due to the complexity of today's cars, the industry requires a high degree of reading and comprehension skills. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43). The North Idaho College Automotive Technology program is NATEF certified and is taught by ASE Master Technicians.

**Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

### Program Requirements

**In addition to the specific Automotive Technology courses, students must take a minimum of 15 credits of A.A.S. general education courses as specified in the program below. (The math requirement should be taken during the student's first semester of the program.)**

#### First Semester

Course No.	Title	Credit Hrs
AUTO-102	Automotive Technology Fundamentals and Safety	2
AUTO-111	Manual Drive Trains and Axles	2
AUTO-118	Electrical Systems	3
AUTO-119L	Automotive Lab I	7
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup>	3-5
		<b>Semester Total 17-19</b>

#### Second Semester

AUTO-124	Brakes, Steering and Suspension	2
AUTO-127	Engine Repair	3
AUTO-129L	Automotive Lab II	7
ENGL-101	English Composition <sup>2</sup>	3
		<b>Semester Total 15</b>

#### Third Semester

AUTO-231	Engine Performance I	3
AUTO-233	Electrical Systems II and HVAC	2
AUTO-235L	Advanced Automotive Lab III	7
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
		<b>Semester Total 15</b>

#### Fourth Semester

AUTO-241	Automatic Transmissions/Transaxles	3
AUTO-243	Engine Performance II	2
AUTO-245L	Advanced Automotive Lab IV	7
COMM-101	Introduction to Speech Communication <sup>2</sup>	3
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 18</b>
		<b>Program Total 65-67</b>

#### Notes:

- <sup>1</sup> Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>2</sup> Satisfies the A.A.S. degree general education requirement.
- <sup>3</sup> Select from the A.A.S. degree requirements listed on page 50.

# Aviation Flight Training

## Advanced Technical Certificate

### Career and Technical Program

This program prepares students for careers in Aviation as Helicopter Pilots. All Flight Training classes are offered through FAA-Approved Inland Helicopter's Part 141 Certificate. Students are required to take all the courses listed plus any electives necessary to meet semester and program credits totals.

### Program Entrance Requirement

See program entrance requirements and admissions requirements and procedures on Aerospace website at [www.nic.edu/aerospace](http://www.nic.edu/aerospace).

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
AEFT-101	Introduction to Flight	1
AEFT-104	Private Pilot Ground School	4
AEFT-106	Meteorology	3
AEFT-120	Private Pilot Helicopter Stage I	4
AEFT-122	Private Pilot Helicopter State II	4
		<b>Semester Total 16</b>

#### Second Semester

AEFT-108	Theory of Flight	3
AEFT-110	Commercial Pilot Ground School	3
AEFT-124	Commercial Pilot Helicopter Stage III	3
MCTE-103	Technical Mathematics for Aerospace Technology (or higher)	3-5
		<b>Semester Total 12-14</b>

#### Third Semester

AEFT-202	Instrument Ground School	3
AEFT-204	Aircraft Systems	3
AEFT-230	Commercial Pilot Helicopter Stage IV	3
AEFT-232	Instrument Pilot Helicopter Stage V	3
		<b>Semester Total 12</b>

#### Fourth Semester

AEFT-206	Flight Instructor Ground School	3
AEFT-240	Flight Instructor	3
AEFT-242	Flight Instructor Instruments	2
ATEC-117	Occupational Relations and Job Search	2
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	3
		<b>Semester Total 13</b>
		<b>Program Total 53-55</b>

# Aviation Flight Training

## Associate of Applied Science Degree

### Career and Technical Program

This program prepares students for careers in Aviation as Helicopter Pilots. All Flight Training classes are offered through FAA-Approved Inland Helicopter's Part 141 Certificate. Students are required to take all the courses listed plus any electives necessary to meet semester and program credits totals.

### Program Entrance Requirement

See program entrance requirements and admissions requirements and procedures on Aerospace website at [www.nic.edu/aerospace](http://www.nic.edu/aerospace).

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
AEFT-101	Introduction to Flight	1
AEFT-104	Private Pilot Ground School	4
AEFT-106	Meteorology	3
AEFT-120	Private Pilot Helicopter Stage I	4
AEFT-122	Private Pilot Helicopter State II	4
		<b>Semester Total 16</b>

#### Second Semester

AEFT-108	Theory of Flight	3
AEFT-110	Commercial Pilot Ground School	3
AEFT-112	Turbine Transition Ground School	1
AEFT-124	Commercial Pilot Helicopter Stage III	3
AEFT-126	Turbine Transition Flight	2
ENGL-101	English Composition <sup>1</sup>	3
_____	A.A.S. Mathematical Ways of Knowing <sup>2</sup>	3-5
		<b>Semester Total 18-20</b>

#### Third Semester

AEFT-202	Instrument Ground School	3
AEFT-204	Aircraft Systems	3
AEFT-230	Commercial Pilot Helicopter Stage IV	3
AEFT-232	Instrument Pilot Helicopter Stage V	3
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
		<b>Semester Total 15</b>

#### Fourth Semester

AEFT-206	Flight Instructor Ground School	3
AEFT-240	Flight Instructor	3
AEFT-242	Flight Instructor Instruments	2
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 14</b>
		<b>Program Total 63-65</b>

#### Notes:

- <sup>1</sup> Satisfies the A.A.S. degree general education requirement.
- <sup>2</sup> Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>3</sup> Select from the A.A.S. degree requirements listed on page 50.

# Aviation Maintenance Technology

## Advanced Technical Certificate

### Career and Technical Program

This program prepares students for entry-level employment in aerospace technology airframe maintenance mechanical fields. The curriculum fulfills the FAA requirements for lecture and lab hours needed prior to taking the FAA licensing exam. Students will receive the knowledge and skills necessary to work in various phases of aviation general and airframe industries. Students will receive hands on instruction from certified FAA Airframe and Power licensed instructors in a lab setting approved by the FAA as a CFR part 147 school.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
AERM-103	Weight and Balance	2
AERM-104	Shop Practices	3
AERM-106	Federal Aviation Regulations	2
AERO-101	Aviation Science	3
MCTE-103	Technical Mathematics for Aerospace Technology (or higher)	3
or MCTE-101	Technical Mathematics	(3)
or MCTE-105	Technical Mathematics for Machining and Computer Aided Design Technologies	(3)
or MCTE-106	Technical Mathematics for Industrial Mechanic/Millwright; Heating, Ventilation, Aid Conditioning, and Refrigeration; Welding	(3)
or _____	A.A.S. Mathematical Ways of Knowing <sup>1</sup>	(3-5)

**Semester Total 13-15**

#### Second Semester

AERM-102	Basic Electricity	3
AERM-105	Ground Operations	3
AERM-201	Wood, Fabric, and Finishes	2
AERM-203	Aircraft Composites	2
AERM-204	Aircraft Welding	2
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)

**Semester Total 15**

#### Third Semester

AERM-202	Aircraft Sheet Metal	5
AERM-205	Assembly and Rigging	2
AERM-211	Landing Gear Systems	3
AERM-215	Airframe Electrical	3

**Semester Total 13**

#### Fourth Semester

AERM-206	Airframe Inspection	2
AERM-212	Hydraulics, Pneumatics and Fuel Systems	3
AERM-213	Airframe Auxiliary Systems	3
AERM-214	Instruments, Navigation and Communication Systems	2
ATEC-117	Occupational Relations and Job Search	3

**Semester Total 13**

**Program Total 54-56**

# Aviation Maintenance Technology

## Associate of Applied Science Degree

### Career and Technical Program

This program prepares students for entry-level employment in aerospace technology airframe maintenance mechanical fields. The curriculum fulfills the FAA requirements for lecture and lab hours needed prior to taking the FAA licensing exam. Students will receive the knowledge and skills necessary to work in various phases of aviation general and airframe industries. Students will receive hands on instruction from certified FAA Airframe and Power licensed instructors in a lab setting approved by the FAA as a CFR part147 school.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
AERM-103	Weight and Balance	2
AERM-104	Shop Practices	3
AERM-106	Federal Aviation Regulations	2
AERO-101	Aviation Science	3
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup>	3-5
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>1</sup>	3
		<b>Semester Total 16-18</b>

#### Second Semester

AERM-102	Basic Electricity	3
AERM-105	Ground Operations	3
AERM-201	Wood, Fabric, and Finishes	2
AERM-203	Aircraft Composites	2
AERM-204	Aircraft Welding	2
ENGL-101	English Composition <sup>2</sup>	3
		<b>Semester Total 15</b>

#### Third Semester

AERM-202	Aircraft Sheet Metal	5
AERM-205	Assembly and Rigging	2
AERM-211	Landing Gear Systems	3
AERM-215	Airframe Electrical	3
		<b>Semester Total 13</b>

#### Fourth Semester

AERM-206	Airframe Inspection	2
AERM-212	Hydraulics, Pneumatics and Fuel Systems	3
AERM-213	Airframe Auxiliary Systems	3
AERM-214	Instruments, Navigation and Communication Systems	2
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 16</b>
		<b>Program Total 60-62</b>

#### Notes:

<sup>1</sup> Select from the A.A.S. degree requirements listed on page 50.

<sup>2</sup> Satisfies the A.A.S. degree general education requirement.

# Biology, Botany, and Zoology

## Associate of Science Degree

### Transfer Program

The biological sciences deal with the basic principles of all living things: structure, function, and ecological associations. An understanding of biological principles is important in a wide variety of fields, including the health professions, education, agriculture, forestry, and environmental sciences.

Completion of the following courses results in an Associate of Science Degree with an area of emphasis in Biology, Botany, and Zoology. The required coursework normally fulfills the first half of baccalaureate degree requirements in Biology, Botany, or Zoology. Course selection should be tailored to match requirements defined by intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
BIOL-115	Introduction to Life Sciences	4
BIOL-231	General Ecology	4
BTNY-203	General Botany	4
CHEM-111	Principles of General College Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
PHYS-111	General Physics I	4
ZOOL-202	General Zoology	4

<b>Choose one course from the following:</b>		4
BACT-250	General Microbiology <sup>2</sup>	
BTNY-241	Systematic Botany <sup>2</sup>	

<b>Choose one course from the following:</b>		4
MATH-160	Survey of Calculus	
MATH-170	Analytic Geometry and Calculus I	

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum) 63</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> Select course based on intended transfer institution.

# Business

## Associate of Science Degree

### Transfer Program

The Business Associate of Science Degree requires completion of three areas: the General Education Requirements (GEM courses), the Business Core requirements, and the required courses listed under one of the following three pathways: Business Administration, Business Teacher Education, or General Business.

Completion of the following courses results in an associate's degree. The suggested coursework normally fulfills the first half of baccalaureate degree requirements in the selected Business pathway. Course selection should be tailored to match requirements defined by intended transfer institutions.

#### Business Administration Pathway

The study of Business Administration leads to career opportunities in accounting, economics, information systems, finance, human resources management, marketing, production management, and other business-related fields.

#### Business Teacher Education Pathway

Business teacher education majors learn how to teach business in career technical programs for students at various grade levels. Classes cover such topics as accounting, economics, computer systems, and career guidance. The suggested coursework normally fulfills the first half of baccalaureate degree requirements in Business Teacher Education.

#### General Business Pathway

The study of General Business leads to career opportunities in several business-related fields.

**Consult with your NIC business faculty advisor and refer to the college catalog of your intended transfer institution for more information.**

#### Notes:

<sup>1</sup> Consult with your business faculty advisor to determine the appropriate math course(s).

<sup>2</sup> This General Education Requirement is partially met by the Program Requirements.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>2</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
ACCT-201	Principles of Accounting	3
ACCT-202	Managerial Accounting	3
BUSA-101	Introduction to Business	3
ECON-201	Principles of Economics (Macro)	3
or ECON-202	Principles of Economics (Micro)	(3)

#### Choose one of the three following areas of emphasis:

##### Business Administration

BUSA-251	Business Statistics	3
BUSA-265	Legal Environment of Business	3
ECON-201	Principles of Economics (Macro)	3
or ECON-202	Principles of Economics (Micro)	(3)

#### Choose one course from the following:

ENGL-202	Technical Writing	3
ENGL-205	Interdisciplinary Writing	3
ENGL-272	Business Writing	3

#### Choose one course from the following:

BUSA-100	Digital Literacy in Business	3
BUSA-211	Principles of Management	3
BUSA-221	Principles of Marketing	3

##### Business Teacher Education

BUSA-211	Principles of Management	3
BUSA-221	Principles of Marketing	3
BUSA-265	Legal Environment of Business	3
ECON-201	Principles of Economics (Macro)	3
or ECON-202	Principles of Economics (Micro)	(3)
EDUC-201	Introduction to Teaching	3
ENGL-272	Business Writing	3

##### General Business

#### Choose five courses from the following:

BUSA-100	Digital Literacy in Business	3
BUSA-211	Principles of Management	3
BUSA-221	Principles of Marketing	3
BUSA-251	Business Statistics	3
BUSA-265	Legal Environment of Business	3
ECON-201	Principles of Economics (Macro)	3
or ECON-202	Principles of Economics (Micro)	(3)
ENGL-202	Technical Writing	3
or ENGL-205	Interdisciplinary Writing	3
or ENGL-272	Business Writing	3

#### Elective Requirements

Courses 100-level or higher	0
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Total Credits (minimum) 60



# Business Management

## Associate of Applied Science Degree

### Career and Technical Program

The Business Management program provides students with an Associate of Applied Science Degree to fit educational and professional goals geared toward business leadership and management. The components of the A.A.S. degree consist of three areas: 1) completion of General Business Core, 2) completion of three Basic Technical Certificates for a rich mix of Career and Technical Areas of Competence (CTAC), and 3) completion of the General Education requirements for a total of 60-62 credits.

Successful completion of each of the Basic Technical Certificates will enable students to specialize in specific areas of interest for entry-level positions that meet their individual career goals. Placement in some of the courses in the CTAC may be determined by college assessment tests or prior to completion of prerequisites.

### Program Requirements

#### First Semester

Course No.	Title	Credits
COMM-101	Introduction to Speech Communication	3
ECON-201	Principles of Economics (Macro)	3
ENGL-101	English Composition	3
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup>	3-5
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>1</sup>	3
		<b>Semester Total 15-17</b>

#### General Business Core

Course No.	Title	Credits
BLDR-105	Customer Service	3
BUSA-101	Introduction to Business	3
BUSA-211	Principles of Management	3
or BUSA-221	Principles of Marketing	(3)
		<b>Total 9</b>

#### Three Basic Technical Certificates:

##### Entrepreneurship

ENTP-105	Entrepreneurship Skills	3
ENTP-115	Entrepreneurship Opportunity Analysis	3
ENTP-125	Small Business Financial Management	3
ENTP-135	Business and Marketing Plan Development	3
		<b>Total 12</b>

##### Human Resource Management

BLDR-132	Employee Benefits and Compensation	3
BMGT-260	Human Resource Management	3
BUSA-265	Legal Environment of Business	3
HRA-210	Recruiting, Selection, and Retention	3
		<b>Total 12</b>

##### Supervision

BLDR-110	Supervisory Management	3
BLDR-122	Leadership	3
BMGT-256	Problem Solving Through Team Dynamics	3
BUSA-234	Ethical Conduct in Business	3
		<b>Total 12</b>
<b>Program Total 60-62</b>		

#### Notes:

<sup>1</sup> Select from the A.A.S. degree requirements listed on page 50.

# Business Management – Entrepreneurship

## Basic Technical Certificate

### Career and Technical Program

The Business Management program provides students with an Associate of Applied Science Degree to fit educational and professional goals geared toward business leadership and management. The components of the A.A.S. degree consist of three areas: 1) completion of General Business Core, 2) completion of three Basic Technical Certificates for a rich mix of Career and Technical Areas of Competence (CTAC), and 3) completion of the General Education requirements for a total of 60-62 credits.

Successful completion of each of the Basic Technical Certificates will enable students to specialize in specific areas of interest for entry-level positions that meet their individual career goals. Placement in some of the courses in the CTAC may be determined by college assessment tests or prior to completion of prerequisites.

The requirements for the Associate of Applied Science Business Management Degree is described on page 81.

### Program Requirements

Course No.	Title	Credits
ENTP-105	Entrepreneurship Skills	3
ENTP-115	Entrepreneurship Opportunity Analysis	3
ENTP-125	Small Business Financial Management	3
ENTP-135	Business and Marketing Plan Development	3
		<b>Program Total 12</b>

# Business Management – General Business Core

## Basic Technical Certificate

### Career and Technical Program

The Business Management program provides students with an Associate of Applied Science Degree to fit educational and professional goals geared toward business leadership and management. The components of the A.A.S. degree consist of three areas: 1) completion of General Business Core, 2) completion of three Basic Technical Certificates for a rich mix of Career and Technical Areas of Competence (CTAC), and 3) completion of the General Education requirements for a total of 60-62 credits.

Successful completion of each of the Basic Technical Certificates will enable students to specialize in specific areas of interest for entry-level positions that meet their individual career goals. Placement in some of the courses in the CTAC may be determined by college assessment tests or prior to completion of prerequisites.

The requirements for the Associate of Applied Science Business Management Degree is described on page 81.

### Program Requirements

Course No.	Title	Credits
BLDR-105	Customer Service	3
BUSA-101	Introduction to Business	3
BUSA-211	Principles of Management	3
or BUSA-221	Principles of Marketing	(3)
<b>Program Total</b>		<b>9</b>

# Business Management – Human Resource Management

## Basic Technical Certificate

### Career and Technical Program

The Business Management program provides students with an Associate of Applied Science Degree to fit educational and professional goals geared towards business leadership and management. The components of the A.A.S. degree consist of three areas: 1) completion of General Business Core, 2) completion of three Basic Technical Certificates for a rich mix of Career and Technical Areas of Competence (CTAC), and 3) completion of the General Education requirements for a total of 60-62 credits.

Successful completion of each of the Basic Technical Certificates will enable students to specialize in specific areas of interest for entry-level positions that meet their individual career goals. Placement in some of the courses in the CTAC may be determined by college assessment tests or prior to completion of prerequisites.

The requirements for the Associate of Applied Science Business Management Degree is described on page 81.

### Program Requirements

Course No.	Title	Credits
BLDR-132	Employee Benefits and Compensation	3
BMGT-260	Human Resource Management	3
BUSA-265	Legal Environment of Business	3
HRA-210	Recruiting, Selection, and Retention	3
		<b>Program Total 12</b>

# Business Management – Supervision

## Basic Technical Certificate

### Career and Technical Program

The Business Management program provides students with an Associate of Applied Science Degree to fit educational and professional goals geared towards business leadership and management. The components of the A.A.S. degree consist of three areas: 1) completion of General Business Core, 2) completion of three Basic Technical Certificates for a rich mix of Career and Technical Areas of Competence (CTAC), and 3) completion of the General Education requirements for a total of 60-62 credits.

Successful completion of each of the Basic Technical Certificates will enable students to specialize in specific areas of interest for entry-level positions that meet their individual career goals. Placement in some of the courses in the CTAC may be determined by college assessment tests or prior to completion of prerequisites.

The requirements for the Associate of Applied Science Business Management Degree is described on page 81.

### Program Requirements

Course No.	Title	Credits
BLDR-110	Supervisory Management	3
BLDR-122	Leadership	3
BMGT-256	Problem Solving Through Team Dynamics	3
BUSA-234	Ethical Conduct in Business	3
		<b>Program Total 12</b>

# Carpentry and Construction Technology

## Intermediate Technical Certificate

### Career and Technical Program

The 10-month Carpentry and Construction Technology program is intended to provide the skills and training for entry into the field of construction as a carpenter. Various aspects of carpentry connected with many areas of construction will be taught. Site preparation, forming and placing concrete, trade math, framing, rafter and truss installation, stair layout, insulation, exterior finish, and interior finish are all areas which will be thoroughly covered in class and in the field. Students will use many hand, portable electric, and stationary power tools and must acquire good skills in the area, as well as understand all safety aspects of the tools used.

The Carpentry and Construction Technology program involves actual work situations emphasizing teamwork, work ethics, safety, and communication. A general education component consisting of communication, occupational relations, and math is integrated into the program. Successful completion of the first semester or permission of the instructor is required for admission into the second semester. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43).

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### Summer Session

Course No.	Title	Credit Hrs
CARP-141	Introduction to Carpentry and Construction	3
CARP-142	Safe and Savvy Tool Use	3
		<b>Session Total 6</b>

#### Fall Semester

CARP-143	Blueprints for Carpenters	3
CARP-144	Construction Materials, Equipment and Methods I	3
CARP-145	All Things Concrete	2
CARP-146	Framing Applications	2
CARP-147	Construction Methods Lab I	5
MCTE-101	Technical Mathematics (or higher)	3-5
		<b>Semester Total 18-20</b>

#### Spring Semester

ATEC-117	Occupational Relations and Job Search <sup>1</sup>	2
CARP-154	Building Science	3
CARP-155	Construction Materials, Equipment and Methods II	3
CARP-156	Exterior Finish Carpentry	2
CARP-157	Interior Finish Carpentry	2
CARP-158	Construction Methods Lab II	5
ECTE-100	Fundamentals for Writing	3
	or ENGL-101 English Composition	(3)
		<b>Semester Total 20</b>
		<b>Program Total 44-46</b>

#### NOTES:

<sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Chemistry

## Associate of Science Degree

### Transfer Program

Chemistry is a science that deals with the composition, structure, and properties of substances and their transformations. A solid math and science background is important preparation for a college chemistry program. Completion of these courses results in an Associate of Science Degree with an area of emphasis in Chemistry. The required coursework normally fulfills the first half of baccalaureate degree requirements in Chemistry. Course selection should be tailored to match requirements defined by intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
CHEM-111	Principles of General College Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
CHEM-253	Quantitative Analysis	5
CHEM-277	Organic Chemistry I	3
CHEM-278	Organic Chemistry I Lab	1
CHEM-287	Organic Chemistry II	3
CHEM-288	Organic Chemistry II Lab	1
MATH-170	Analytic Geometry and Calculus I	4
MATH-175	Analytic Geometry and Calculus II	4
MATH-275	Analytic Geometry and Calculus III	4
PHYS-211	Engineering Physics I	5
PHYS-212	Engineering Physics II	5

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum) 70</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.

# Child Development

## Associate of Science Degree

### Transfer Program

The Child Development program provides two options for students wishing to pursue a career working with young children from birth to age 8. Students can complete courses for an associate's degree, which prepares for transfer to a four-year college or university and entry-level career opportunities. Students who do not intend to transfer may opt to pursue courses that prepare them to apply for a Child Development Associate Credential, a non-degree national credential.

The Child Development associate's degree transfer program is designed to meet requirements for students transferring to four-year institutions in Child Development or Early Childhood Education. Students who earn an associate's degree in Child Development are qualified to seek entry-level career opportunities in early care and education, preschool, Head Start, and teaching in private education programs serving children and families from birth to age 8, both typically and atypically developing.

Further study leading to a baccalaureate degree, especially those programs offering the Blended Early Childhood/Early Childhood Special Education component, affords career options in elementary education (K-3), special education, and other child-related fields. An associate's degree meets the general core requirements at all Idaho public universities.

Course selection should be tailored to match requirements as defined by transfer institutions. To ensure appropriate courses are taken, those students intending to pursue the Blended Early Childhood/Early Childhood Special Education at Idaho transfer institutions should meet with an NIC Child Development advisor upon acceptance into the college.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>1</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
CHD-134	Infancy through Middle Childhood	3
CHD-171	Early Childhood Curriculum	3
CHD-235	Observation and Assessment	3
CHD-243	Early Childhood Education	3
CHD-254	Child Guidance Theory	3
CHD-298A	Child Development Practicum A	3
CHD-298B	Child Development Practicum B	3
CHD-298C	Child Development Practicum C	3

#### Elective Requirements

Courses 100-level or higher 1-3  
**Total Credits (minimum) 60**

#### Notes:

<sup>1</sup> This General Education Requirement is partially met by the Program Requirements.



# Child Development

## Academic Certificate

### Transfer Program

The Academic Certificate in Child Development is designed to prepare students to work in a variety of early care and education settings at an entry level with children from infancy through age 8. The curriculum consists of a core of 21 credit hours directly related to early childhood education. The certificate also allows students to apply earned credits toward an A.S. in Child Development.

### Program Requirements

Course No.	Title	Credits
ENGL-101	English Composition	3
CHD-110	Child Health and Safety	3
CHD-134	Infancy through Middle Childhood	3
CHD-150	Professional Partnerships: Families, Schools, and Community	3
CHD-171	Early Childhood Curriculum	3
CHD-254	Child Guidance Theory	3
CHD-298A	Child Development Practicum A	3
		<b>Program Total 21</b>

# Child Development Associate Credential Program

## Academic Certificate

### Transfer Program

The Child Development Associate (CDA) credential program is intended for individuals preparing to work in early care and education settings who wish to gain further knowledge and expertise in the field. The CDA Credential is the minimum educational standard required for employment in Head Start/Early Head Start and accredited early childhood programs. Ten credits of coursework provides the theoretical and practical framework for establishing appropriate program practices for young children and families.

NIC's Child Development Associate CDA Certificate of Completion verifies that the student has completed the specified 120 hours of required coursework for the CDA Credential. After completing these courses students who are at least 18 years of age, have a high school diploma or equivalent, and with at least 480 documented hours of direct work with young children in an early childhood program, will be ready to apply for their Child Development Associate Credential from the Council for Professional Recognition.

Credits earned for college coursework completed while pursuing a Child Development Associate Academic Certificate articulate directly into the NIC Child Development Academic Certificate, and the Associate of Science Degree.

The Child Development Associate (CDA) Credential™ is the most widely recognized credential in early childhood education (ECE) and is a key stepping stone on the path of career advancement in ECE. The CDA Credential is based on a core set of competency standards, which guide early care professionals as they work toward becoming qualified teachers of young children.

The Council for Professional Recognition works to ensure that the nationally-transferable CDA is a credible and valid credential, recognized by the early childhood profession as a vital part of professional development. The CDA credential is a recognized professional level of the Idaho Early Childhood Pathway of Professional Development.

### Program Requirements

Course No.	Title	Credits
CHD-110	Child Health and Safety	3
CHD-134	Infancy through Middle Childhood	3
CHD-150	Professional Partnerships: Families, Schools, and Community	3
CHD-165	CDA Professional Portfolio Development	1
		<b>Program Total 10</b>

# Collision Repair Technology

## Intermediate Technical Certificate

### Career and Technical Program

The Collision Repair Technology program is a nine-month program designed to prepare students for entry-level employment as a collision repair technician and/or painter. All phases of refinishing are covered including basecoat and clear coat applications. MIG welding, plastic and fiberglass repair, sheet metal repair and replacement, estimating, glass replacement, damage analysis including unibody and full frame alignment, electrical and mechanical diagnosing, and other related topics are covered.

A general education component of communication, occupational relations, and computational skills is also integrated into the program. Successful completion of the first semester or permission of the instructor is required to continue to the next semester. Strong basic math and good reading skills are recommended. Placement in specific math and English courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43).

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
ACRR-161	Exterior and Interior Renovation	1
ACRR-162	Fundamentals of Collision Repair	4
ACRR-163	Damage Analysis and Small Dent Repair	2
ACRR-164	Introduction to Paint Refinishing	1
ACRR-165L	Collision Repair Lab I	6
ACRR-166L	Collision Repair Lab II	5
MCTE-101	Technical Mathematics (or higher)	3-5
WELD-140	Auto Collision Repair Welding	2

**Semester Total 24-26**

#### Second Semester

ACRR-171	Paint Refinishing Fundamentals	3
ACRR-172	Damage Analysis and Estimating	2
ACRR-173	Measurement and Structural Analysis	2
ACRR-174	Surface Prep and Adhesive Bonding	1
ACRR-175L	Collision Repair Lab III	5
ACRR-176L	Collision Repair Lab IV	5
A TEC-117	Occupational Relations and Job Search <sup>1</sup>	2
ECTE-100	Fundamentals for Writing	3
	or ENGL-101 English Composition	(3)

**Semester Total 23**

**Program Total 47-49**

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Communication

## Associate of Arts Degree

### Transfer Program

Communication is a discipline that teaches vital skills for success in today's society and provides professional preparation in communication fields. Communication provides the link for using all other technical skills and knowledge acquired in one's lifetime. Few assets are more valuable to career or community than a basic understanding of the dynamics of communication.

Communication is an area of study that is not limited to public speaking. Communication includes the study of how people interact in relationships and groups, as well as public presentation situations. The course of study offered at NIC gives students the opportunity to explore a variety of areas in communication. Completion of the following courses results in an associate's degree and normally fulfills the first half of baccalaureate degree requirements in communication. Course selections should be tailored to match requirements of the intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing <sup>1</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
COMM-209	Argumentation	3
COMM-220	Introduction to Intercultural Communication	3
COMM-233	Interpersonal Communication	3
COMM-236	Small Group Communication	3

#### Choose one from the following: 2-3

COMJ-140	Mass Media in a Free Society
COMM-103	Oral Interpretation
COMM-111	Interview Techniques
COMM-212	Nonverbal Communication

#### Elective Requirements

Courses 100-level or higher 13-16

**Total Credits (minimum) 60**

#### Notes:

<sup>1</sup> This General Education Requirement is partially met by the Program Requirements.

# Communication

## Academic Certificate

### Transfer Program

Communication skills, both verbal and nonverbal, are essential to success, sustainability, and upward progression in the workplace. Beyond the workplace, competence in communication is an integral component of relationships as well as positive local and global community citizenship. Good communication skills are unfailingly ranked as one of the most important attributes sought after by the business community.

This program offers students an opportunity to develop and refine communication skills in a variety of professional and personal contexts which are critical to success in the job market. The flexibility of the communication certificate, as well as the range of classes offered, will allow students to hone their communication abilities in areas specific to their needs and desired career path. Few assets are more valuable to career or community than a basic understanding of the dynamics of communication. This program applies toward the requirements for an associate degree in Communication.

Up to six transfer credits from an accredited institution may be applied toward this academic certificate.

### Program Requirements

Course No.	Title	Credits
<b>Choose twelve credits from the following:</b>		<u>12</u>
COMM-101	Introduction to Speech Communication	
COMM-103	Oral Interpretation	
COMM-111	Interview Techniques	
COMM-209	Argumentation	
COMM-212	Nonverbal Communication	
COMM-220	Introduction to Intercultural Communication	
COMM-233	Interpersonal Communication	
COMM-236	Small Group Communication	
COMM-252	Introduction to Public Relations	
COMJ-140	Mass Media in a Free Society	
		<b>Total Credits 12</b>

# Computer Aided Design Technology– Architectural Design Option

## Intermediate Technical Certificate

### Career and Technical Program

The Computer Aided Design Technology program offers students the opportunity to learn skills required by today's industries. Students can pursue a two-semester Intermediate Technical Certificate, a four-semester Advanced Technical Certificate, and a four-semester Associate of Applied Science Degree. Portions of the Associate of Applied Science Degree options may transfer to various four-year institutions. Students entering the A.A.S. degree program should be prepared to complete an A.A.S. math requirement and ENGL-101 (or higher) during the first year of the program before they may continue. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program.

**Current industry professionals may enroll in a single course on a space-available basis and with instructor permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CADT-102A	Technical Sketching-Architectural Applications	2
CADT-104A	CAD Graphics I-Architectural Applications	2
CADT-106A	CAD Graphics II-Architectural Applications	2
CAOT-164	Computer Fundamentals for Tech Programs	1
CAOT-165	Productivity Software for Tech Programs	1
CAOT-166	Living Online for Tech Programs	1
MCTE-105	Technical Math for Machining and Computer Aided Design Technology (or higher)	3-5
	General Elective	3
		<b>Semester Total 15-17</b>

#### Second Semester

ATEC-117	Occupational Relations and Job Search <sup>1</sup>	2
CADT-131	Residential Architecture I	4
CADT-133	Commercial Architecture I	2
CARP-154	Building Science	3
ECTE-100	Fundamentals for Writing	3
	or ENGL-101 English Composition	(3)
		<b>Semester Total 14</b>
		<b>Program Total 29-31</b>

#### Notes:

<sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Computer Aided Design Technology– Architectural Design Option

## Advanced Technical Certificate

### Career and Technical Program

The Computer Aided Design Technology program offers students the opportunity to learn skills required by today's industries. Students can pursue a two-semester Intermediate Technical Certificate, a four-semester Advanced Technical Certificate, and a four-semester Associate of Applied Science Degree. Portions of the Associate of Applied Science Degree options may transfer to various four-year institutions. Students entering the A.A.S. degree program should be prepared to complete an A.A.S. math requirement and ENGL-101 (or higher) during the first year of the program before they may continue. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program.

**Current industry professionals may enroll in a single course on a space-available basis and with instructor permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CADT-102A	Technical Sketching-Architectural Applications	2
CADT-104A	CAD Graphics I-Architectural Applications	2
CADT-106A	CAD Graphics II-Architectural Applications	2
CAOT-164	Computer Fundamentals for Tech Programs	1
CAOT-165	Productivity Software for Tech Programs	1
CAOT-166	Living Online for Tech Programs	1
MCTE-105	Technical Math for Machining and Computer Aided Design Technology (or higher)	3-5

**Semester Total 12-14**

#### Second Semester

A TEC-117	Occupational Relations and Job Search <sup>1</sup>	2
CADT-131	Residential Architecture I	4
CADT-133	Commercial Architecture I	2
CARP-154	Building Science	3
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)

**Semester Total 14**

#### Third Semester

CADT-201	Architectural Print Reading and Estimating	2
CADT-202	Residential Architecture II	4
CADT-203	Commercial Architecture II	3
PHIL-201	Logic and Critical Thinking	3

**Semester Total 12**

#### Fourth Semester

CADT-204	Residential Architecture III	4
CADT-205	Commercial Architecture III	3
CADT-207	Building Design Integration	2
_____	General Elective	3
_____	General Elective	3

**Semester Total 15  
Program Total 53-55**

#### Notes:

<sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Computer Aided Design Technology– Architectural Design Option

Associate of Applied Science Degree

## Career and Technical Program

The Computer Aided Design Technology program offers students the opportunity to learn skills required by today's industries. Students can pursue a two-semester Intermediate Technical Certificate, a four-semester Advanced Technical Certificate, and a four-semester Associate of Applied Science Degree. Portions of the Associate of Applied Science Degree options may transfer to various four-year institutions. Students entering the A.A.S. degree program should be prepared to complete an A.A.S. math requirement and ENGL-101 (or higher) during the first year of the program before they may continue. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program.

**Current industry professionals may enroll in a single course on a space-available basis and with instructor permission.**

## Program Requirements

**In addition to the specific Computer Aided Design Technology courses, students must take a minimum of 15 credits of A.A.S. general education courses as specified in the program below.**

First Semester		
Course No.	Title	Credits
CADT-102A	Technical Sketching-Architectural Applications	2
CADT-104A	CAD Graphics I-Architectural Applications	2
CADT-106A	CAD Graphics II-Architectural Applications	2
CAOT-164	Computer Fundamentals for Technology Programs	1
CAOT-165	Productivity Software for Technology Programs	1
CAOT-166	Living Online for Technology Programs	1
ENGL-101	English Composition <sup>1</sup>	3
		<b>Semester Total 12</b>
Second Semester		
CADT-131	Residential Architecture I	4
CADT-133	Commercial Architecture I	2
CARP-154	Building Science	3
_____	A.A.S. Mathematical Ways of Knowing <sup>2</sup>	3-5
_____	Scientific Ways of Knowing <sup>3</sup>	4
		<b>Semester Total 16-18</b>
Third Semester		
CADT-201	Architectural Print Reading and Estimating	2
CADT-202	Residential Architecture II	4
CADT-203	Commercial Architecture II	3
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
_____	Scientific Ways of Knowing <sup>3</sup>	4
		<b>Semester Total 16</b>
Fourth Semester		
ATEC-117	Occupational Relations and Job Search <sup>4</sup>	2
CADT-204	Residential Architecture III	4
CADT-205	Commercial Architecture III	3
CADT-207	Building Design Integration	2
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
PHIL-201	Logic and Critical Thinking	3
		<b>Semester Total 17</b>
		<b>Program Total 61-63</b>

### Notes:

- <sup>1</sup> Satisfies A.A.S. degree general education requirement.
- <sup>2</sup> Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>3</sup> Select from the associate's degree requirements listed on page 48.
- <sup>4</sup> Students may substitute another course with written permission of instructor and division chair.



# Computer Aided Design Technology– Mechanical Design Option

## Intermediate Technical Certificate

### Career and Technical Program

The Computer Aided Design Technology program offers students the opportunity to learn skills required by today's industries. Students can pursue a two-semester Intermediate Technical Certificate, a four-semester Advanced Technical Certificate, and a four-semester Associate of Applied Science Degree. CADT–Mechanical places heavy emphasis on design principles and computer aided design applications. Portions of the Associate of Applied Science Degree options may transfer to various four-year institutions. Students entering the A.A.S. degree program should be prepared to complete an A.A.S. math requirement and ENGL-101 (or higher) during the first year of the program before they may continue. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program.

**Current industry professionals may enroll in a single course on a space-available basis and with instructor permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

CADT-104M	CAD Graphics I-Mechanical Applications	2
CADT-106M	CAD Graphics II-Mechanical Applications	2
CAOT-164	Computer Fundamentals for Technology Programs	1
CAOT-165	Productivity Software for Technology Programs	1
ECTE-100 or ENGL-101	Fundamentals for Writing English Composition	3 (3)
MACH-153	Precision Measuring	1
MCTE-105	Technical Math for Machining and Computer Aided Design Technology (or higher)	3-5

**Semester Total 13-15**

#### Second Semester

ATEC-117	Occupational Relations and Job Search <sup>1</sup>	2
CADT-105	Descriptive Geometry	3
CADT-109	Basic Mechanical Design	4
CAOT-166	Living Online for Technology Programs	1
MACH-201	Design for Manufacturing	1
_____	General Elective	3

**Semester Total 14  
Program Total 27-29**

#### Notes:

<sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Computer Aided Design Technology– Mechanical Design Option

## Advanced Technical Certificate

### Career and Technical Program

The Computer Aided Design Technology program offers students the opportunity to learn skills required by today's industries. Students can pursue a two-semester Intermediate Technical Certificate, a four-semester Advanced Technical Certificate, and a four-semester Associate of Applied Science Degree. CADT–Mechanical places heavy emphasis on design principles and computer aided design applications. Portions of the Associate of Applied Science Degree options may transfer to various four-year institutions. Students entering the A.A.S. degree program should be prepared to complete an A.A.S. math requirement and ENGL-101 (or higher) during the first year of the program before they may continue. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program.

**Current industry professionals may enroll in a single course on a space-available basis and with instructor permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

CADT-104M	CAD Graphics I-Mechanical Applications	2
CADT-106M	CAD Graphics II-Mechanical Applications	2
CAOT-164	Computer Fundamentals for Technology Programs	1
CAOT-165	Productivity Software for Technology Programs	1
ECTE-100 or ENGL-101	Fundamentals for Writing English Composition	3 (3)
MACH-153	Precision Measuring	1
MCTE-105	Technical Math for Machining and Computer Aided Design Technology (or higher)	<u>3-5</u>

**Semester Total 13-15**

#### Second Semester

A TEC-117	Occupational Relations and Job Search <sup>1</sup>	2
CADT-105	Descriptive Geometry	3
CADT-109	Basic Mechanical Design	4
CAOT-166	Living Online for Technology Programs	1
MACH-201	Design for Manufacturing	<u>1</u>

**Semester Total 11**

#### Third Semester

CADT-250	SolidWorks I	2
CADT-252	SolidWorks II	2
CADT-253	Industrial Processes	3
CADT-255	Geometric Dimensioning and Tolerancing	3
MACH-231	Computers and Machines	3
_____	General Elective	<u>2</u>

**Semester Total 15**

#### Fourth Semester

CADT-254	Power Transmission	3
CADT-257	Advanced Mechanical Design	4
CADT-261	Statics and Strengths of Materials	3
_____	General Elective	<u>3</u>

**Semester Total 13  
Program Total 52-54**

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Computer Aided Design Technology– Mechanical Design Option

Associate of Applied Science Degree

## Career and Technical Program

The Computer Aided Design Technology program offers students the opportunity to learn skills required by today's industries. Students can pursue a two-semester Intermediate Technical Certificate, a four-semester Advanced Technical Certificate, and a four-semester Associate of Applied Science Degree. CADT–Mechanical places heavy emphasis on design principles and computer aided design applications. Portions of the Associate of Applied Science Degree options may transfer to various four-year institutions. Students entering the A.A.S. degree program should be prepared to complete an A.A.S. math requirement and ENGL-101 (or higher) during the first year of the program before they may continue. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program.

**Current industry professionals may enroll in a single course on a space-available basis and with instructor permission.**

## Program Requirements

**In addition to the specific Computer Aided Design Technology courses, students must take a minimum of 15 credits of A.A.S. general education courses as specified in the program below.**

### First Semester

CADT-104M	CAD Graphics I-Mechanical Applications	2
CADT-106M	CAD Graphics II-Mechanical Applications	2
CAOT-164	Computer Fundamentals for Technology Programs	1
CAOT-165	Productivity Software for Technology Programs	1
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
ENGL-101	English Composition <sup>1</sup>	3
MACH-153	Precision Measuring	1
MCTE-105	Technical Math for Machining and Computer Aided Design Technology (or higher)	<u>3</u>
	<b>Semester Total</b>	<b>16</b>

### Second Semester

ATEC-117	Occupational Relations and Job Search <sup>1</sup>	2
CADT-105	Descriptive Geometry	3
CADT-109	Basic Mechanical Design	4
CAOT-166	Living Online for Technology Programs	1
MACH-201	Design for Manufacturing	1
MATH-143	College Algebra (or higher) <sup>1</sup>	<u>3-5</u>
	<b>Semester Total</b>	<b>14-16</b>

### Third Semester

CADT-250	SolidWorks I	2
CADT-252	SolidWorks II	2
CADT-253	Industrial Processes	3
CADT-255	Geometric Dimensioning and Tolerancing	3
ENGL-202	Technical Writing	3
MACH-231	Computers and Machines	<u>3</u>
	<b>Semester Total</b>	<b>16</b>

### Fourth Semester

CADT-254	Power Transmission	3
CADT-257	Advanced Mechanical Design	4
CADT-261	Statics and Strengths of Materials	3
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>2</sup>	3
_____	A.A.S. Institutionally Designated <sup>2</sup>	<u>3</u>
	<b>Semester Total</b>	<b>16</b>
	<b>Program Total</b>	<b>62-64</b>

### Notes:

<sup>1</sup> Satisfies A.A.S. degree general education requirement.

<sup>2</sup> Select from the A.A.S. degree requirements listed on page 50.

# Computer Applications

## Basic Technical Certificate

### Career and Technical Program

The Computer Applications certificate program provides comprehensive training in the latest Microsoft Office software. This certificate is designed for anyone who desires to work with computers and/or advance their computer software skills. The coursework prepares students for Microsoft Office Specialist (MOS) industry certification testing. Students are strongly encouraged to pursue MOS (Microsoft Office Specialist) Certification as part of this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CAOT-115	Outlook	1
CAOT-120	Word Processing/Word I	1
CAOT-121	Word Processing/Word II	1
CAOT-122	Word Processing/Word III	1
CAOT-130	Spreadsheets/Excel I	1
CAOT-131	Spreadsheets/Excel II	1
CAOT-132	Spreadsheets/Excel III	1
CAOT-140	Database/Access I	1
CAOT-150	PowerPoint	1
CAOT-164	Computer Fundamentals for Tech Programs	1
CAOT-166	Living Online for Tech Programs	1
CAOT-250	Office Skills Capstone	1
<b>Total Credits (minimum)</b>		<b>12</b>

# Computer Information Technology

## Intermediate Technical Certificate

### Career and Technical Program

The Computer Information Technology (CITE) program prepares students for careers in information technology by offering a one-year Intermediate Technical Certificate, a two-year Advanced Technical Certificate, and an Associate of Applied Science Degree. The A.A.S. degree in CITE is a two-year program that will prepare students for working with sophisticated networking hardware and operating system software and will lead to industry recognized certifications. It also includes all related coursework to complete A.A.S. degree requirements.

The CITE one-year Intermediate Technical Certificate teaches the foundation of information technology job skills and the two-year Advanced Technical Certificate includes all the technical coursework of the A.A.S. degree, but with reduced general education requirements.

The CITE program is designed to provide students with essential skills to plan, implement, administer, support, and secure networked computer systems and associated users, as well as install and configure routers and switches in multiprotocol internetworks using LAN and WAN interfaces. North Idaho College operates a Cisco Networking Academy. NIC is a Microsoft IT Academy member institution and maintains academic partnerships with industry leaders such as CompTIA and VMware.

Continued advances in network technology have created an increased need for professionals trained in the information technology field. Students will gain essential technical instruction that enables them to perform tasks such as network design, installation, maintenance, and management as well as fill network administration and systems administration job roles.

This is a selective enrollment program. Successful completion of the each semester or permission of the instructor is required to continue to the next semester. Successful completion of the technical certificate or permission of the instructor is required for enrollment in third and fourth semester courses.

Contact the Career and Technical Programs advisor for the information on selective enrollment criteria.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CITE-116	Desktop Operating System Support	3
CITE-118	Computer Essentials	2
CITE-119	Computer Essentials Projects	2
CITE-127	Desktop Commodity Operating System Support Projects	2
ENGL-101	English Composition	3
MCTE-101	Technical Mathematics (or higher)	3-5
<b>Semester Total</b>		<b>15-17</b>

#### Second Semester

CITE-104	Systems Administration I	3
CITE-105	Systems Administration I Projects	3
CITE-121	Network Support I	3
CITE-122	Network Support I Projects	3
COMM-101	Introduction to Speech Communication	3
<b>Semester Total</b>		<b>15</b>
<b>Program Total</b>		<b>30-32</b>

# Computer Information Technology

## Advanced Technical Certificate

### Career and Technical Program

The Computer Information Technology (CITE) program prepares students for careers in information technology by offering a one-year Intermediate Technical Certificate, a two-year Advanced Technical Certificate, and an Associate of Applied Science Degree. The A.A.S. degree in CITE is a two-year program that will prepare students for working with sophisticated networking hardware and operating system software and will lead to industry recognized certifications. It also includes all related coursework to complete A.A.S. degree requirements.

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The CITE program is designed to provide students with essential skills to plan, implement, administer, support, and secure networked computer systems and associated users, as well as install and configure routers and switches in multiprotocol internetworks using LAN and WAN interfaces. North Idaho College operates a Cisco Networking Academy. NIC is a Microsoft IT Academy member institution and maintains academic partnerships with industry leaders such as CompTIA and VMware.

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This is a selective enrollment program. Successful completion of the each semester or permission of the instructor is required to continue to the next semester. Successful completion of the technical certificate or permission of the instructor is required for enrollment in third and fourth semester courses.

Contact the Career and Technical Programs advisor for the information on selective enrollment criteria.

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### Program Requirements

#### First Semester

Course No.	Title	Credits
CITE-116	Desktop Operating System Support	3
CITE-118	Computer Essentials	2
CITE-119	Computer Essentials Projects	2
CITE-127	Desktop Commodity Operating System Support Projects	2
ENGL-101	English Composition	3
MCTE-101	Technical Mathematics (or higher)	3-5
		<b>Semester Total 15-17</b>

#### Second Semester

CITE-104	Systems Administration I	3
CITE-105	Systems Administration I Projects	3
CITE-121	Network Support I	3
CITE-122	Network Support I Projects	3
COMM-101	Introduction to Speech Communication	3
		<b>Semester Total 15</b>

#### Third Semester

CITE-206	Systems Administration II	3
CITE-207	Systems Administration II Projects	3
CITE-213	Network Support II	3
CITE-215	Network Support II Projects	3
		<b>Semester Total 12</b>

#### Fourth Semester

CITE-208	Systems Administration III	3
CITE-209	Systems Administration III Projects	3
CITE-217	Network Support III	3
CITE-219	Network Support III Projects	3
CITE-295	CITE Internship	4
or ATEC-117	Occupational Relations and Job Search	(2)
		<b>Semester Total 14-16</b>
		<b>Program Total 56-60</b>

# Computer Information Technology

## Associate of Applied Science Degree

### Career and Technical Program

In addition to the specific Computer Information Technology courses, students must take a minimum of 15 credits of A.A.S. general education courses as specified in the program requirements.

The Computer Information Technology (CITE) program prepares students for careers in information technology by offering a one-year Intermediate Technical Certificate, a two-year Advanced Technical Certificate, and an Associate of Applied Science Degree. The A.A.S. degree in CITE is a two-year program that will prepare students for working with sophisticated networking hardware and operating system software and will lead to industry recognized certifications. It also includes all related coursework to complete A.A.S. degree requirements.

The CITE one-year Intermediate Technical Certificate teaches the foundation of information technology job skills and the two-year Advanced Technical Certificate includes all the technical coursework of the A.A.S. degree, but with reduced general education requirements.

The CITE program is designed to provide students with essential skills to plan, implement, administer, support, and secure networked computer systems and associated users, as well as install and configure routers and switches in multiprotocol internetworks using LAN and WAN interfaces. North Idaho College operates a Cisco Networking Academy. NIC is a Microsoft IT Academy member institution and maintains academic partnerships with industry leaders such as CompTIA and VMware.

Continued advances in network technology have created an increased need for professionals trained in the information technology field. Students will gain essential technical instruction that enables them to perform tasks such as network design, installation, maintenance, and management as well as fill network administration and systems administration job roles.

This is a selective enrollment program. Successful completion of the each semester or permission of the instructor is required to continue to the next semester. Successful completion of the technical certificate or permission of the instructor is required for enrollment in third and fourth semester courses.

Contact the Career and Technical Programs advisor for the information on selective enrollment criteria.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CITE-116	Desktop Operating System Support	3
CITE-118	Computer Essentials	2
CITE-119	Computer Essentials Projects	2
CITE-127	Desktop Commodity Operating System Support Projects	2
ENGL-101	English Composition <sup>1</sup>	3
_____	A.A.S. Mathematical Ways of Knowing <sup>2</sup> 3-5	3-5
		<b>Semester Total 15-17</b>

#### Second Semester

CITE-104	Systems Administration I	3
CITE-105	Systems Administration I Projects	3
CITE-121	Network Support I	3
CITE-122	Network Support I Projects	3
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
		<b>Semester Total 15</b>

#### Third Semester

CITE-206	Systems Administration II	3
CITE-207	Systems Administration II Projects	3
CITE-213	Network Support II	3
CITE-215	Network Support II Projects	3
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
		<b>Semester Total 15</b>

#### Fourth Semester

CITE-208	Systems Administration III	3
CITE-209	Systems Administration III Projects	3
CITE-217	Network Support III	3
CITE-219	Network Support III Projects	3
CITE-295	CITE Internship	4
_____	or ATEC-117 Occupational Relations and Job Search	(2)
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 17-19</b>
		<b>Program Total 62-66</b>

#### Notes:

- <sup>1</sup> Satisfies A.A.S. degree general education requirement.
- <sup>2</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>3</sup> Select from A.A.S. degree requirements listed on page 50.

# Computer Science

## Associate of Science Degree

### Transfer Program

This program is for students interested in pursuing a baccalaureate degree in Computer Science and can lead to career opportunities in a wide variety of computer science areas such as operating systems, expert systems, graphics, databases, software engineering, compilers, and numerical analysis. The advantage of small class size, individual attention, a knowledgeable professional staff, and state-of-the-art instructional equipment are well suited to meeting the lower division requirements for degrees in computer science. This program requires a solid mathematical background.

Completion of the following courses results in an associate's degree with an area of emphasis in Computer Science. Course selections should be tailored to match requirements of the intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>2</sup>	4
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

CS-150	Computer Science I	4
CS-151	Computer Science II	4
CS-155	Computer Organization and Assembly Language	3
CS-210	Programming Languages	3
CS-241	Computer Operating Systems	3
CS-270	System Software	3
or CS-228	Introduction to UNIX	(2)
MATH-170	Analytic Geometry and Calculus I	4
MATH-175	Analytic Geometry and Calculus II	4
MATH-187	Discrete Math	4

#### Choose one of the following courses: 4-5

BIOL-115	Introduction to Life Science
ZOOL-202	General Zoology
CHEM-111	Chemistry I
PHYS-211	Engineering Physics I

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum) 64-66</b>	

#### Recommended Courses

CS-115	Introduction to Programming	3
MATH-275	Analytic Geometry and Calculus III	4
MATH-335	Linear Algebra	3

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is partially met by the Program Requirements.



# Construction Management

## Associate of Applied Science Degree

### Career and Technical Program

Successful completion of the first-year certificate program or permission of the instructor is required in order to enroll in the Construction Management Technology program.

The second year of the Carpentry program leads to an A.A.S. degree in Construction Management Technology and is intended to advance the skills learned in the one-year certificate program. Successful students will demonstrate advanced materials and cost estimation, blueprint reading, job scheduling, and will receive a more in-depth view of what the construction industry requires of those who are in supervisory positions or intend to operate their own contracting business.

The Carpentry program's second year creates "real world" construction management experience through student participation in the construction of the North Idaho College Foundation Really BIG Raffle house project as well as planning and management of other construction projects that are part of the program's laboratory curriculum each year. Second-year students are challenged at a higher level as they meet with subcontractors and obtain materials and special supplies throughout work on the project house. Interpersonal and supervisory skills are honed as students act as on-site foremen for groups of first-year students.

Advanced specialty carpentry skills are emphasized during the second year which allow students to improve their own technical skills. All students are required to take courses in computer aided design, communication, business, and computer applications. Cabinet making, commercial construction, architecture, welding, and masonry may also be addressed according to students' individual preferences.

**In addition to the specific Construction Management Technology courses, students must take a minimum of 15 credits of A.A.S. general education courses as specified in the program requirements.**

### Program Requirements

Course No.	Title	Credit Hrs
<b>Summer Session</b>		
CARP-141	Introduction to Carpentry and Construction	3
CARP-142	Safe and Savvy Tool Use	3
		<b>Session Total 6</b>
<b>Fall Semester</b>		
CARP-143	Blueprints for Carpenters	3
CARP-144	Construction Materials, Equipment and Methods I	3
CARP-145	All Things Concrete	2
CARP-146	Framing Applications	2
CARP-147	Construction Methods Lab I	5
ENGL-101	English Composition <sup>1</sup>	3
		<b>Semester Total 18</b>
<b>Spring Semester</b>		
CARP-154	Building Science	3
CARP-155	Construction Materials, Equipment and Methods II	3
CARP-156	Exterior Finish Carpentry	2
CARP-157	Interior Finish Carpentry	2
CARP-158	Construction Methods Lab II	5
_____	A.A.S. Mathematical Ways of Knowing <sup>2</sup>	3-5
		<b>Semester Total 18-20</b>
<b>Fall Semester</b>		
CADT-201	Architectural Print Reading and Estimating	2
CARP-251	Carpentry Management I	4
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 9</b>
<b>Spring Semester</b>		
CAOT-164	Computer Fundamentals for Tech Programs	1
& CAOT-165	Productivity Software for Tech Programs	1
& CAOT-166	Living Online for Tech Programs	1
or BLDR-110	Supervisory Management	(3)
or BLDR-122	Leadership	(3)
or BLDR-222	Project Management	(3)
or BUSA-211	Principles of Management	(3)
CARP-252	Carpentry Management II	4
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
		<b>Semester Total 13</b>
		<b>Program Total 64-66</b>

#### Notes:

- <sup>1</sup> Satisfies A.A.S. degree general education requirements.
- <sup>2</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>3</sup> Select from A.A.S. degree requirements listed on page 50.

# Criminal Justice

## Associate of Arts Degree

### Transfer Program

The Criminal Justice program provides an overview of the criminal justice system, including law enforcement, the court system, criminal law, corrections, police-community relations, ethics, probation, and parole, learning the fundamentals of research design and analysis. This program serves those who might find an entry level position with an associate's degree and fulfills the first two years of a program for students interested in pursuing a career in the criminal justice field where earning a Bachelor's or higher degree is either an advantage or required. Positions available to graduates of a criminal justice program may be found in the areas of local, state, and federal law enforcement agencies, various other governmental agencies, corrections, probation, and parole systems, private security agencies, advocacy, careers dealing with policy and planning, and insurance companies.

Completion of the following courses results in an associate's degree and meets the general core requirements at all Idaho public universities. The suggested coursework normally fulfills the first half of baccalaureate degree requirements in Criminal Justice. Course selections should be tailored to match requirements of the intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>1</sup>	0
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
CJ-103	Introduction to Criminal Justice	3
CJ-202	Corrections in America	3
CJ-205	Criminal Procedure	3
CJ-245	Introduction to Criminology	3
POLS-101	American National Government	3

#### Choose one course from the following:

SOC-101	Introduction to Sociology	3
SOC-102	Social Problems	

#### Elective Requirements

Courses 100-level or higher	10-12
<b>Total Credits (minimum) 60</b>	

#### Recommended Courses

PSYC-101	Introduction to Psychology	3
PSYC-205	Developmental Psychology	3
PSYC-211	Abnormal Psychology	3
SOC-220	Marriage and Family	3
SOC-251	Race and Ethnic Relations	3
POLS-275	State and Local Government	3

#### Notes:

<sup>1</sup> This General Education Requirement is met by the Program Requirements.

# Culinary Arts

## Intermediate Technical Certificate

### Career and Technical Program

The Culinary Arts program provides students with entry-level skills in the food service industry. Students receive instruction in cooking and baking, as well as theoretical knowledge that underlines competency in the field. Additional training involves table service, menus, cost controls, storeroom, and stewarding. Students will have the opportunity to:

- Learn and effectively practice basic and advanced technical skills in food preparation and service.
- Understand the principles of food identification, nutrition, and food and beverage composition.
- Gain experience in the proper use and maintenance of professional food service equipment.
- Become familiar with the layout and workflow of professional kitchens and bakeshops.
- Gain an appreciation for the history, evolution, and international diversity of the culinary arts.
- Develop a sense of professionalism necessary for working successfully in the food service industry.

Students spend approximately 10 hours a week in theory and 20 hours a week in the kitchen and dining room operating Emery's Restaurant to learn the front and back of restaurant operations. Successful completion of each semester or permission of the instructor is required for admission into the next semester. This is a selective enrollment program. Placement in specific math and English courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill-building prior to entering the program (see page 43).

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### Program Requirements

#### First Semester

Course No.	Title	Credits
CULA-111	Food Safety and Sanitation	3
CULA-120	Professional Kitchen I	4
CULA-120L	Professional Kitchen Lab I	4
CULA-165	Introduction to Customer Service	3
CULA-165L	Introduction to Customer Service Lab	0
MCTE-101	Technical Mathematics (or higher)	<u>3-5</u>

**Semester Total 17-19**

#### Second Semester

CULA-121	Professional Kitchen II	4
CULA-121L	Professional Kitchen Lab II	4
CULA-130	Menu Planning and Procurement	2
CULA-166	Restaurant Customer Service Operations	3
CULA-166L	Restaurant Customer Service Operations Lab	0
CULA-176	Culinary Arts Internship	2
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
HOSP-117	Careers in Hospitality	<u>3</u>

**Semester Total 21**

**Program Total 38-40**

# Diesel Technology

## Intermediate Technical Certificate

### Career and Technical Program

The Diesel Technology program is designed to prepare students for employment as entry-level truck/heavy equipment technicians. The program emphasizes extensive shop work using actual customer projects, as well as mock-up units and assemblies similar to those found in industry. Instruction includes theory and troubleshooting of problems involved in the repair and maintenance of engines, transmissions, differentials, brakes, steering, suspension, cooling, as well as hydraulics, undercarriages, fuel and air systems, and introduction to vehicle/equipment operation. Integrated in the program is a course in safety and basic welding procedures. Successful completion of each semester or permission of the instructor is required to continue into the next semester. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill-building prior to entering the program (see page 43).

**Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

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### Program Requirements

#### First Semester

Course No.	Title	Credits
DSL-104	Safety and Introduction to Shop Practices	2
DSL-123L	Diesel Engines/Electrical Systems Lab	6
DSL-125	Diesel Engines	2
DSL-126	Electrical Systems	3
DSL-133	Introduction to Electrical	1
MCTE-104	Technical Math for Auto/Diesel/Outdoor Power/Recreational Vehicle	3
		<b>Semester Total 17</b>

#### Second Semester

ATEC-117	Occupational Relations and Job Search <sup>1</sup>	2
DSL-124	Powertrain/Brake Systems	5
DSL-124L	Powertrain/Brake Systems Lab	6
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
		<b>Semester Total 16</b>

#### Summer Session

DSL-117L	Diesel Lab	2
DSL-137	Suspension/Steering/AC/Class B CDL	2
		<b>Semester Total 4</b>
		<b>Program Total 37</b>

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Diesel Technology

## Advanced Technical Certificate

### Career and Technical Program

The Diesel Technology program is designed to prepare students for employment as entry-level truck/heavy equipment technicians. The program emphasizes extensive shop work using actual customer projects, as well as mock-up units and assemblies similar to those found in industry. Instruction includes theory and troubleshooting of problems involved in the repair and maintenance of engines, transmissions, differentials, brakes, steering, suspension, cooling, as well as hydraulics, undercarriages, fuel and air systems, and Class B Commercial Drivers License (CDL) training. Integrated in the program is a course in welding and cutting using both oxy-acetylene and electric arc. Successful completion of each semester or permission of the instructor is required to continue into the next semester. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill-building prior to entering the program (see page 43).

**Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
DSL-104	Safety and Introduction to Shop Practices	2
DSL-123L	Diesel Engines/Electrical Systems Lab	6
DSL-125	Diesel Engines	2
DSL-126	Electrical Systems	3
DSL-133	Introduction to Electrical	1
MCTE-104	Technical Math for Auto/Diesel/Outdoor Power/Recreational Vehicle	3
		<b>Semester Total 17</b>

#### Second Semester

DSL-124	Powertrain/Brake Systems	5
DSL-124L	Powertrain/Brake Systems Lab	6
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
		<b>Semester Total 14</b>

#### Summer Session

DSL-117L	Diesel Lab	2
DSL-137	Suspension/Steering/AC/Class B CDL	2
		<b>Semester Total 4</b>

#### Third Semester

ATEC-117	Occupational Relations and Job Search <sup>1</sup>	2
DSL-223	Advanced Tune-up Computerized Engines	4
DSL-223L	Advanced Tune-up Computerized Engines Lab	6
		<b>Semester Total 12</b>

#### Fourth Semester

DSL-203	Basic Hydraulic Systems	2
DSL-224	Undercarriage/Powershift Transmissions and Hydraulics	4
DSL-224L	Undercarriage/Powershift Transmissions and Hydraulics Lab	6
		<b>Semester Total 12</b>
		<b>Program Total 59</b>

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Diesel Technology

## Associate of Applied Science Degree

### Career and Technical Program

In addition to the specific Diesel Technology courses, students must take a minimum of 15 credits of A.A.S. general education courses as specified in the program requirements. (The math requirement should be taken during the student's first semester of the program.)

The Diesel Technology program is designed to prepare students for employment as entry-level truck/heavy equipment technicians. The program emphasizes extensive shop work using actual customer projects, as well as mock-up units and assemblies similar to those found in industry. Instruction includes theory and troubleshooting of problems involved in the repair and maintenance of engines, transmissions, differentials, brakes, steering, suspension, cooling, as well as hydraulics, undercarriages, fuel and air systems, and Class B Commercial Drivers License (CDL) training. Integrated in the program is a course in welding and cutting using both oxy-acetylene and electric arc. Successful completion of each semester or permission of the instructor is required to continue into the next semester. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill-building prior to entering the program (see page 43).

**Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

### Program Requirements

#### First Semester

Course No.	Title	Credits
DSLTL-104	Safety and Introduction to Shop Practices	2
DSLTL-123L	Diesel Engines/Electrical Systems Lab	6
DSLTL-125	Diesel Engines	2
DSLTL-126	Electrical Systems	3
DSLTL-133	Introduction to Electrical	1
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup>	3-5
		<b>Semester Total 17-19</b>

#### Second Semester

DSLTL-124	Powertrain/Brake Systems	5
DSLTL-124L	Powertrain/Brake Systems Lab	6
ENGL-101	English Composition <sup>2</sup>	3
		<b>Semester Total 14</b>

#### Summer Session

DSLTL-117L	Diesel Lab	2
DSLTL-137	Suspension/Steering/AC/Class B CDL	2
		<b>Session Total 4</b>

#### Third Semester

COMM-101	Introduction to Speech Communication <sup>2</sup>	3
DSLTL-223	Advanced Tune-up Computerized Engines	4
DSLTL-223L	Advanced Tune-up Computerized Engines Lab	6
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
		<b>Semester Total 16</b>

#### Fourth Semester

DSLTL-203	Basic Hydraulic Systems	2
DSLTL-224	Undercarriage/Powershift Transmissions and Hydraulics	4
DSLTL-224L	Undercarriage/Powershift Transmissions and Hydraulics Lab	6
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 15</b>
		<b>Program Total 66-68</b>

#### Notes:

- <sup>1</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>2</sup> Satisfies A.A.S. degree requirement.
- <sup>3</sup> Select from A.A.S. degree general education requirements listed on page 50.

# Education – Elementary or Middle School Teacher Education

## Associate of Arts Degree

### Transfer Program

The Education program is intended for students who wish to teach in an elementary or middle school education setting. It is strongly recommended that students who plan to teach kindergarten through grade eight in an elementary or middle school contact their transfer institution as soon as possible regarding specific coursework needed for the transfer institution's core curriculum, college of education requirements, and/or state certification requirements. Delay in contacting the transfer institution may result in taking unnecessary courses. The following courses have a high probability for transfer and meet core requirements for an associate's degree from North Idaho College.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>2</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing <sup>1</sup>	0
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
EDUC-201	Introduction to Teaching	3
ENGL-175	Introduction to Literature	3
MATH-143	College Algebra (or higher)	3
MATH-157	Mathematics for Elementary Teachers I	3
MATH-257	Mathematics for Elementary Teachers II	3
PSYC-101	Introduction to Psychology	3
PSYC-205	Developmental Psychology	3

<b>Choose one course from the following:</b>		3
HIST-111	U.S. History: Discovery to Reconstruction	
HIST-112	U.S. History: Gilded Age to the Present	

#### Elective Requirements

Courses 100-level or higher	12
<b>Total Credits (minimum) 60</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is partially met by the Program Requirements.

# Education – Secondary Education

## Associate of Arts Degree

### Transfer Program

The Education program is intended for students who wish to teach in a middle school, or high school setting. Most transfer institutions and state teacher certification standards require high school teachers to complete a major area of study such as English, History, Art, or Biology. In preparation for transfer, NIC students may enroll in courses which have a high probability for transfer and courses that support their major area of study. It is strongly recommended that students who plan to teach in a high school setting contact their transfer institution as soon as possible regarding specific coursework needed for the transfer institution's core curriculum, college of education requirements, and/or state certification requirements. Delay in contacting the transfer institution may result in taking unnecessary courses. Students wishing to pursue a career as a middle school teacher have two options. They can complete secondary requirements for high school teachers and be certified to teach grades 6-12 in their area. The second option would be to seek an elementary certification and seek an endorsement in their content area. Students who are uncertain about becoming a teacher may enroll in EDUC-201 as a sophomore. This course is designed to assist students in making an educated decision about teaching as a career choice.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>2</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
EDUC-201	Introduction to Teaching	3
MATH-143	College Algebra	3
PSYC-101	Introduction to Psychology	3

#### Elective Requirements

Courses 100-level or higher 21  
**Total Credits (minimum) 60**

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is partially met by the Program Requirements.



# Engineering

## Associate of Science Degree

### Transfer Program

A full range of engineering and related courses are offered to satisfy freshman and sophomore requirements for students planning to transfer to institutions offering baccalaureate degrees in engineering or engineering technology. A solid foundation is laid for further studies in civil, mechanical, chemical, and electrical engineering. This program provides the flexibility needed by students interested in emerging fields like computer science, robotics, bioengineering, geological engineering, environmental engineering, and many others. The advantages of small class size, individual attention, a knowledgeable professional staff, and state-of-the-art instructional equipment incorporating modern CAD (computer aided design) are well suited to meeting the lower division requirements for degrees in engineering. A solid math and science background is important preparation for a college engineering program. Completion of the following courses normally fulfills half of bachelor's degree requirements in Engineering. Course selections should be tailored to match requirements of the intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>2</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing <sup>2</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
CHEM-111	Principles of General College Chemistry I	5
ENGR-123	Intro to Engineering	2
ENGR-210	Statics	3
MATH-170	Analytic Geometry and Calculus I	4
MATH-175	Analytic Geometry and Calculus II	4
MATH-370	Intro to Ordinary Differential Equations	3
PHIL-103	Ethics	3
PHYS-211	Engineering Physics I	5

**Choose one course from the following:** 3

ECON-201	Principles of Economics (Macro)
ECON-202	Principles of Economics (Micro)

**Choose 13 credits from the following:** <sup>3</sup> 13

CHEM-112	Principles of College Chemistry II
CHEM-277	Organic Chemistry I
CHEM-278	Organic Chemistry I Lab
CHEM-287	Organic Chemistry II
CHEM-288	Organic Chemistry II Lab
CS-150	Computer Science
CS-240	Digital Logic
ENGL-202	Technical Writing
ENGR-105	Engineering Graphics
ENGR-214	Surveying
ENGR-220	Dynamics of Rigid Bodies
ENGR-223	Engineering Analysis
ENGR-240	Circuits I
ENGR-241	Circuits II
ENGR-295	Strength of Materials
MATH-275	Analytic Geometry and Calculus III
MATH-335	Linear Algebra
PHYS-212	Engineering Physics II

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum) 64</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is partially met by the Program Requirements.
- <sup>3</sup> Choose courses based on major chosen at your transfer institution.

# English

## Associate of Arts Degree

### Transfer Program

The study of literature and composition helps students to acquire valuable interdisciplinary communication skills for a wide range of professions. Classes focus on the pleasures and challenges of reading and writing. Students learn to read critically, to think logically, to analyze and organize a wide variety of concepts, to research and evaluate sources, and to communicate clearly and effectively. Studying literature, creative writing, and professional writing provides students with strong reading comprehension abilities and inspires cultural, social, philosophical, and historical inquiry. Regular practice of writing teaches students to express their ideas artfully and to integrate diverse perspectives into convincing essays. English majors can apply these skills to a range of professional fields, such as business, advertising, media, law, health professions, and education.

Completion of the following courses normally fulfills the first half of bachelor's degree requirements in English. Students can choose a special focus in literature, creative writing, or professional writing. Students who wish to choose a special focus for their English A.A. (literature, creative writing, or professional writing) must meet with their English advisors to discuss specific course recommendations. Course selections should be tailored to match requirements of the intended transfer institutions.

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> Advising is critical to ensure course selections are appropriate for seamless transfer. The minimum credits for an A.A. degree is 60, but students may need to complete up to 78 credits. The maximum credits for transfer depends on the institution. Check with your advisor before selecting English and/or general electives.
- <sup>3</sup> Students may need to take two full years of a Modern Language for transfer. Check with your advisor and transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	0
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
ENGL-195	Introduction to English Studies	3
ENGL-210	Literary Analysis	3

<b>Choose one course from the following:</b>	3
ENGL-271	Introduction to Shakespeare
ENGL-296	Major Figures

<b>Choose 12-15 credits from the following: <sup>2</sup></b>	12-15
ENGL-202	Technical Writing
ENGL-205	Interdisciplinary Writing
ENGL-207	Trestle Creek Review
ENGL-216	Mythology
ENGL-257	Literature of Western Civilization
ENGL-258	Literature of Western Civilization
ENGL-267	Survey of English Literature
ENGL-268	Survey of English Literature
ENGL-271	Introduction to Shakespeare
ENGL-272	Business Writing
ENGL-277	Survey of American Literature
ENGL-278	Survey of American Literature
ENGL-285	American Indian Literature
ENGL-291	Creative Writing: Poetry
ENGL-292	Creative Writing: Fiction
ENGL-293	Creative Writing: Nonfiction
ENGL-295	Contemporary US Multicultural Literature
ENGL-296	Major Figures

<b>Modern Language Requirement <sup>3</sup></b>	5-18
ASL	American Sign Language
FREN	French
GERM	German
ITAL	Italian
SPAN	Spanish

<b>Elective Requirements</b>	0-22
Courses 100-level or higher <sup>2</sup>	
<b>Total Credits 60-78</b>	

# Entrepreneurship

## Academic Certificate

### Transfer Program

The Entrepreneurship program at North Idaho College prepares students to obtain employment by launching a business venture or to work in a variety of industries. Students will be able to enroll in as many classes as their schedule can support, allowing for the entire certificate program to be completed in one semester or over the course of several semesters. The program is a 15 credit hour certificate program. The Entrepreneurship courses will include a hybrid online component with students attending classes on campus and online. The program uses an interdisciplinary instructional approach, including topics from many departments across campus.

Note: For students who wish to complete this program option as part of a career and technical A.A.S. degree financial aid-eligible program, refer to the Business Leadership A.A.S. degree program.

### Program Requirements

Course No.	Title	Credits
ENTP-105	Entrepreneurship Skills	3
ENTP-115	Entrepreneurship Opportunity Analysis	3
ENTP-125	Small Business Financial Management	3
ENTP-135	Business and Marketing Plan Development	3
<b>Choose one course from the following</b>		<b>3</b>
ACCT-113	Payroll Accounting	
ACCT-244	Credits and Collections	
BMKT-231	Principles of Retailing	
BMKT-241	Fundamentals of Advertising and Promotion	
BUSA-211	Principles of Management	
BUSA-221	Principles of Marketing	
BUSA-240	Computer Systems and Business Applications	
BUSA-265	Business Law	
ENGL-272	Business Writing	

**Total Credits (minimum) 15**

# Environmental Science

## Associate of Science Degree

### Transfer Program

Environmental science is the study of human impact on the environment. Our quality of life will depend on our understanding of complex environmental issues. Students enrolled in this program will receive a diverse background in the sciences, including biology, chemistry, and geology.

Completion of the following courses results in an Associate of Science Degree with an area of emphasis in Environmental Science. This program normally fulfills the first two years of baccalaureate study in Environmental Science. Course selection should be tailored to match requirements defined by intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
BIOL-115	Introduction to Life Sciences	4
BIOL-231	General Ecology	4
BTNY-203	General Botany	4
CHEM-111	Principles of General College Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
ENSI-119	Introduction to Environmental Science	4
GEOL-101	Physical Geology	4
ZOOL-202	General Zoology	4

#### Choose one course from the following

MATH-160	Survey of Calculus	4
MATH-170	Analytic Geometry and Calculus I	

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum) 63</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.

# Fire Service Technology

## Associate of Applied Science Degree

### Career and Technical Program

The Fire Service Technology curriculum is designed to develop and upgrade firefighting skills and knowledge of volunteer and paid firefighters, and covers all phases of firefighting. The intent is to provide firefighters with the skills needed to save lives and protect property in a safe and efficient manner. Participants must be members of a paid or volunteer fire department. Technical skills courses are developed through the Idaho Division of Career and Technical Education, Emergency Services Training program, and are offered through fire departments under the coordination of NIC's Workforce Development department. Fire service curricula is developed to the National Fire Protection Association (NFPA) Standards. Upon completion of the technical classes, students may choose to complete the NIC general education core classes and apply for an A.A.S. degree in Fire Service Technology. Upon completing the A.A.S. degree, students may transfer to Lewis-Clark State College to complete a bachelor of applied science degree in Fire Service Technology.

### Program Requirements

**General Education (Student must complete a minimum of 15 credits from the courses below).**

Course No.	Title	Credits
ENGL-101	English Composition	3
COMM-101	Introduction to Speech Communication	3
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup>	3-5
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>2</sup>	3
_____	A.A.S. Institutionally Designated <sup>2</sup>	<u>3</u>
<b>General Education Total</b>		<b>15-17</b>

**Additional courses:**

FST-100	Fire Service Technology	48
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**This course is used to transcript the following courses:**

- Rapid Intervention Team Training Firefighter
- Safety and Survival
- Fire Fighter I
- Fire Fighter II
- Technical Rescue – Operations Elective
- Flashover Survival Training
- Hazardous Materials Awareness
- Hazardous Materials Operation
- Wildland Basic Firefighter II
- Wildland/Urban Interface
- Emergency Medical Technician Basic
- Arson Detection for First Responders
- Building Construction Combustible
- Building Construction Non-Combustible
- Incident Command System
- Silent Wars: Air and Blood Borne Pathogens
- Driver Operator/Pump Operations
- Fire Officer I
- Instructor I

**Program Total 64-66**

**Notes:**

- <sup>1</sup> Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>2</sup> Select from A.A.S. degree requirements listed on page 50.

# Forestry/Wildlife/Range Management

## Associate of Science Degree

### Transfer Program

This program provides required coursework for students interested in pursuing a career in natural resource management. The program acquaints students with the physical, biological, and social sciences, as well as the humanities. The curriculum provides a basis of general education and scientific-professional courses addressing the use of forests, rangelands, and related natural resources.

Completion of the following courses results in an associate's degree with an area of emphasis in Forestry/Wildlife/Range Management. The required coursework normally fulfills the first half of baccalaureate degree requirements in natural resource management for a variety of disciplines, including Forestry, Wildlife, Fisheries, Range Management, etc. Course selection should be tailored to match requirements defined by the intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>2</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
BIOL-101	Forestry Orientation	1
BIOL-115	Introduction to Life Sciences	4
BIOL-221	Forest Ecology	4
CHEM-101	Introduction to Essentials of General Chemistry I <sup>1</sup>	4
ECON-202	Principles of Economics (Micro)	3
MATH-253	Principles of Applied Statistics	3

#### Choose one course from the following: 4

MATH-160	Survey of Calculus	
MATH-170	Analytic Geometry and Calculus I	

#### Elective Courses

Choose a minimum of 18 credits depending on the major chosen at your transfer institution.

BACT-250	General Microbiology	4
BIOL-251	Principles of Range Resources Management	2
BIOL-290	Principles of Wildlife Biology	2
BTNY-203	General Botany	4
BTNY-241	Systematic Botany	4
CHEM-275	Carbon Compounds	3
GEOL-101	Physical Geology	4
PHYS-101	Fundamentals of Physical Science	4
or PHYS-111	General Physics I	(4)
ZOOL-202	General Zoology	4

**Total Credits (minimum) 63**

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is partially met by the Program Requirements.

# General Studies

## Associate of Arts Degree

### Transfer Program

This program is suggested for students wishing to pursue a general studies option. Completion of the following courses results in an associate's degree and meets the general core requirements at all Idaho public universities. The suggested coursework normally fulfills the first half of baccalaureate degree requirements in a General Studies program. Course selection should be tailored to match requirements defined by intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

<u>Area of Study</u>	<u>Credits</u>
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Elective Requirements

Courses 100-level or higher	<u>22-24</u>
<b>Total Credits (minimum)</b>	<b>60</b>

# Geology

## Associate of Science Degree

### Transfer Program

This program is for students interested in pursuing a baccalaureate degree in Geology. Geology is the science that deals with the history of the earth and its life, especially as recorded in rocks. Small classes, excellent laboratories, and close proximity to classical geological field environs are especially well suited to providing the lower-division requirements for geology majors. A strong background in science and mathematics is important preparation for a college geology program.

Completion of the following courses results in an associate's degree with an area of emphasis in Geology. The required coursework normally fulfills the first half of baccalaureate degree requirements in Geology. Course selection should be tailored to match requirements defined by intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
CHEM-111	Principles of General College Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
GEOL-101	Physical Geology	4
GEOL-102	Historical Geology	4
GEOL-255	Systematic Mineralogy	4
MATH-170	Analytic Geometry and Calculus I	4
MATH-175	Analytic Geometry and Calculus II	4
PHYS-111	General Physics I	4
PHYS-112	General Physics II	4

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum) 63</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.



# Graphic Design

## Intermediate Technical Certificate

### Career and Technical Program

The Graphic Design program is designed to prepare students for entry-level positions in the graphic design market. The program emphasizes the basic skills, knowledge, and abilities typically encountered in the graphic design professions. Instruction includes theories and methodologies used to implement creative, technical, and esthetic solutions into print advertising, packaging, web, digital video, and new media applications.

Successful completion of each semester, or permission of the instructor, is required to continue into the next semester. This is a limited enrollment Career and Technical program. Prospective students who do not meet the initial eligibility requirements for this career and technical limited enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43).

Contact the Career and Technical programs advisor for information and admissions criteria.

Current industry professionals may enroll in individual courses on a space-available basis with the permission of the instructor.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
GDES-102	Survey of Graphic Design	3
GDES-131	Adobe Illustrator-Vector Graphics	3
GDES-141	Web Development Basics	3
MCTE-101	Technical Mathematics (or higher)	<u>3-5</u>
		<b>Semester Total 15-17</b>

#### Second Semester

COMM-101	Introduction to Speech Communication	3
GDES-112	Drawing for Designers	2
GDES-120	Typography	2
GDES-132	Adobe Photoshop-Raster Graphics	3
GDES-221	Graphic Design I	3
GDES-255	Design Concepts for the Web	<u>3</u>
		<b>Semester Total 16</b>
		<b>Total Credits 31-33</b>

# Graphic Design

## Advanced Technical Certificate

### Career and Technical Program

The Graphic Design program is designed to prepare students for entry-level positions in the graphic design market. The program emphasizes the basic skills, knowledge, and abilities typically encountered in the graphic design professions. Instruction includes theories and methodologies used to implement creative, technical, and esthetic solutions into print advertising, packaging, web, digital video, and new media applications.

Successful completion of each semester, or permission of the instructor, is required to continue into the next semester. This is a limited enrollment Career and Technical program. Prospective students who do not meet the initial eligibility requirements for this career and technical limited enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43).

Contact the Career and Technical programs advisor for information and admissions criteria.

Current industry professionals may enroll in individual courses on a space-available basis with the permission of the instructor.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
GDES-102	Survey of Graphic Design	3
GDES-131	Adobe Illustrator-Vector Graphics	3
GDES-141	Web Development Basics	3
MCTE-101	Technical Mathematics (or higher)	<u>3-5</u>
		<b>Semester Total 15-17</b>

#### Second Semester

COMM-101	Introduction to Speech Communication	3
GDES-112	Drawing for Designers	2
GDES-120	Typography	2
GDES-132	Adobe Photoshop-Raster Graphics	3
GDES-221	Graphic Design I	3
GDES-255	Design Concepts for the Web	<u>3</u>
		<b>Semester Total 16</b>

#### Third Semester

GDES-133	Adobe InDesign-Layout and Composition	3
GDES-222	Graphic Design II	3
GDES-225	Introduction to Digital Video	3
GDES-271	Design Projects	<u>3</u>
		<b>Semester Total 12</b>

#### Fourth Semester

GDES-213	Digital Illustration	2
GDES-223	Graphic Design III	3
GDES-226	Computer Animation	2
GDES-250	Prepress	2
GDES-283	Portfolio Development	3
GDES-290	Graphic Design Internship	<u>3</u>
		<b>Semester Total 15</b>
		<b>Program Total 58-60</b>

# Graphic Design

## Associate of Applied Science Degree

### Career and Technical Program

The Graphic Design program is designed to prepare students for entry-level positions in the graphic design market. The program emphasizes the basic skills, knowledge, and abilities typically encountered in the graphic design professions. Instruction includes theories and methodologies used to implement creative, technical, and esthetic solutions into print advertising, packaging, web, digital video, and new media applications.

Successful completion of each semester, or permission of the instructor, is required to continue into the next semester. This is a limited enrollment Career and Technical program. Prospective students who do not meet the initial eligibility requirements for this career and technical limited enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43).

Contact the Career and Technical programs advisor for information and admissions criteria.

Current industry professionals may enroll in individual courses on a space-available basis with the permission of the instructor.

### Program Requirements

#### First Semester

Course No.	Title	Credits
ENGL-101	English Composition <sup>1</sup>	3
GDES-102	Survey of Graphic Design	3
GDES-131	Adobe Illustrator-Vector Graphics	3
GDES-141	Web Development Basics	3
_____	A.A.S. Mathematical Ways of Knowing <sup>2</sup>	3-5
		<b>Semester Total 15-17</b>

#### Second Semester

COMM-101	Introduction to Speech Communication <sup>1</sup>	3
GDES-112	Drawing for Designers	2
GDES-120	Typography	2
GDES-132	Adobe Photoshop-Raster Graphics	3
GDES-221	Graphic Design I	3
GDES-255	Design Concepts for the Web	3
		<b>Semester Total 16</b>

#### Third Semester

COMM-233	Interpersonal Communication <sup>1</sup>	3
GDES-133	Adobe InDesign-Layout and Composition	3
GDES-222	Graphic Design II	3
GDES-225	Introduction to Digital Video	3
GDES-271	Design Projects	3
		<b>Semester Total 15</b>

#### Fourth Semester

GDES-213	Digital Illustration	2
GDES-223	Graphic Design III	3
GDES-226	Computer Animation	2
GDES-250	Prepress	2
GDES-283	Portfolio Development	3
GDES-290	Graphic Design Internship	3
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 18</b>
		<b>Program Total 64-66</b>

#### Notes:

- <sup>1</sup> Satisfies A.A.S. degree general education requirement.
- <sup>2</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>3</sup> Select from A.A.S. degree requirements listed on page 50.

# Healthcare Computer Technician

## Advanced Technical Certificate

### Career and Technical Program

Healthcare computer technicians install, configure, and troubleshoot hardware, software, and networking in medical and clinical settings. Healthcare computer technicians are essential in maintaining a high quality of care to patients in hospitals nationwide.

Due to the widespread implementation and complexity of computerized health information, computer IT specialists with knowledge of healthcare practices are in high demand. The purpose of this program is to prepare people for entry-level employment in this exciting field.

This program may be used to help prepare for CompTIA HIT-001 Healthcare IT Technician certification.

Note: Students who wish to enroll in this program must apply to the first year CITE program and meet the selective enrollment criteria for that program. Contact the Career and Technical advisor for information on selective enrollment criteria. Students waiting to be granted admission into the CITE program are able to register and take the courses that do not have the CITE prefix.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CITE-116	Desktop Operating System Support	3
CITE-118	Computer Essentials	2
CITE-119	Computer Essentials Projects	2
CITE-127	Desktop Commodity Operating System Support Projects	2
ENGL-101	English Composition <sup>1</sup>	3
MCTE-101	Technical Mathematics (or higher)	3-5
		<b>Semester Total 15-17</b>

#### Second Semester

CITE-104	Systems Administration I	3
CITE-105	Systems Administration I Projects	3
CITE-121	Network Support I	3
CITE-122	Network Support I Projects	3
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
		<b>Semester Total 15</b>

#### Third Semester

CAOT-140	Database/Access I	1
CAOT-168	Integrated Medical Office Software	3
CAOT-179	Medical Terminology	2
CAOT-180	Legal Issues in Health Care	1
HCIT-101	Health Information I	4
HCIT-110	SQL Fundamentals	3
		<b>Semester Total 14</b>

#### Fourth Semester

CAOT-186	Medical Coding	3
EMRS-122	Installation and Configuring EHRs	3
HCIT-210	Health IT Customer Service	3
HCIT-220	Healthcare Informatics Internship	3
		<b>Semester Total 12</b>
		<b>Program Total 56-58</b>

#### Notes:

<sup>1</sup> Satisfies A.A.S. degree general education requirement.

# Healthcare Computer Technician

## Associate of Applied Science Degree

### Career and Technical Program

Healthcare computer technicians install, configure, and troubleshoot hardware, software, and networking in medical and clinical settings. Healthcare computer technicians are essential in maintaining a high quality of care to patients in hospitals nationwide.

Due to the widespread implementation and complexity of computerized health information, computer IT specialists with knowledge of healthcare practices are in high demand. The purpose of this program is to prepare people for entry-level employment in this exciting field.

This program may be used to help prepare for CompTIA HIT-001 Healthcare IT Technician certification.

Note: Students who wish to enroll in this program must apply to the first year CITE program and meet the selective enrollment criteria for that program. Contact the Career and Technical advisor for information on selective enrollment criteria. Students waiting to be granted admission into the CITE program are able to register and take the courses that do not have the CITE prefix.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CITE-116	Desktop Operating System Support	3
CITE-118	Computer Essentials	2
CITE-119	Computer Essentials Projects	2
CITE-127	Desktop Commodity Operating System Support Projects	2
ENGL-101	English Composition <sup>1</sup>	3
_____	A.A.S. Mathematical Ways of Knowing <sup>2</sup> 3-5	<u>3</u>
		<b>Semester Total 15-17</b>

#### Second Semester

CITE-104	Systems Administration I	3
CITE-105	Systems Administration I Projects	3
CITE-121	Network Support I	3
CITE-122	Network Support I Projects	3
COMM-101	Introduction to Speech Communication <sup>1</sup>	<u>3</u>
		<b>Semester Total 15</b>

#### Third Semester

CAOT-140	Database/Access I	1
CAOT-168	Integrated Medical Office Software	3
CAOT-179	Medical Terminology	2
CAOT-180	Legal Issues in Health Care	1
HCIT-101	Health Information I	4
HCIT-110	SQL Fundamentals	3
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	<u>3</u>
		<b>Semester Total 17</b>

#### Fourth Semester

BIOL-175	Human Biology <sup>1</sup>	4
CAOT-186	Medical Coding	3
EMRS-122	Installation and Configuring EHRs	3
HCIT-210	Health IT Customer Service	3
HCIT-220	Healthcare Informatics Internship	<u>3</u>
		<b>Semester Total 16</b>
		<b>Program Total 63-65</b>

#### Notes:

- <sup>1</sup> Satisfies A.A.S. degree general education requirement.
- <sup>2</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>3</sup> Select from A.A.S. degree requirements listed on page 50.

# Health Information Fundamentals

## Intermediate Technical Certificate

### Career and Technical Program

The Health Information Fundamentals certificate program is designed for those who wish to continue their education with Idaho State University (ISU) and earn an Associate of Applied Science Degree in Health Information Technology. ISU courses required to complete the A.A.S. degree are offered through distance education so students can complete the degree without moving to ISU's campus. Upon completion of ISU's Health Information Technology A.A.S. degree, graduates are eligible to take the national certification examination through the American Health Information Management Association (AHIMA). Successful completion of the examination results in earning the Registered Health Information Technician (RHIT) credential.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Health Information Technology through Idaho State University

Idaho State University (ISU) offers the following courses for the completion of the A.A.S. degree in Health Information Technology. NIC students can transfer their credits from the above technical certificate program to ISU and take the 38 credits listed below to receive an A.A.S. degree in Health Information Technology from ISU. <sup>2</sup>

Course No.	Title	Credits
HIT-0201	Practicum I	2
HIT-0203	Health Care Statistics and QI	3
HIT-0204	Health Information II	4
HIT-0205	ICD-10-CM Coding	3
HIT-0206	ICD-10-PCS Coding	3
HIT-0207	Practicum II	4
HIT-0209	CPT Coding	3
HIT-0213	Advanced Coding/Reimbursement	4
HIT-0220	Informatics Technology I	3
HIT-0215	Introduction to Reimbursement	2
HIT-0224	Informatics Technology II	3
HO-111	Anatomy and Physiology	4

**ISU Total 38**

**A.A.S. Degree Program Total 71**

### Program Requirements

#### First Semester

BIOL-175	Human Biology <sup>1</sup>	4
CAOT-120	Word/Word Processing I	1
CAOT-179	Medical Terminology	2
CAOT-180	Legal Issues in Health Care	1
ENGL-101	English Composition <sup>1</sup>	3
PHAR-150	Introduction to Pharmacology	3
PHIL-103	Ethics	3

**Semester Total 17**

#### Second Semester

COMM-101	Introduction to Speech Communication	3
HCIT-101	Health Information I	4
MAST-180	Introduction to Human Diseases	3
MATH-123	Contemporary Math <sup>1</sup>	3
PSYC-101	Introduction to Psychology <sup>1</sup>	3

**Semester Total 16**

**Program Total 33**

#### Notes:

- <sup>1</sup> Satisfies A.A.S. degree general education requirement.
- <sup>2</sup> The courses offered through ISU are subject to change. Please check the ISU website for the latest program guidelines.

# Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR)

## Intermediate Technical Certificate

### Career and Technical Program

Completion of the nine-month certificate program in Heating, Ventilation, Air Conditioning, and Refrigeration prepares students for entry-level positions in this challenging occupation. Entry-level HVACR technicians typically work on residential and light commercial HVACR systems performing equipment installations, preventative maintenance and service, and repair tasks. Additional opportunities are also available in system design and sales occupations.

Students will study basic HVACR systems, electricity, heating systems, local fuel codes, applied thermodynamics, refrigeration cycle, psychometrics, duct system design, and system diagnosis. These skills are taught in classroom theory and learned in hands-on lab exercises and cooperative work experiences. A general education component consisting of communication, occupational relations, and math is integrated into the program. Successful completion of the first semester or permission of the instructor is required to continue into the second semester.

Successful completion of this program satisfies the four-year related training requirement and the first year of OJT for the Idaho State HVACR apprenticeship program.

Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43).

**Current industry professionals may enroll in a single course on a space available basis and with the instructor's permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
CAOT-162 or	Introduction to Computer Applications	2
CAOT-164	Computer Fundamentals for Tech Programs (1)	
and CAOT-165	Productivity Software for Tech Programs (1)	
and CAOT-166	Living Online for Tech Programs (1)	
HVAC-161	HVACR Principles	3
HVAC-161L	HVACR Lab I	5
HVAC-165	HVACR Electrical	4
HVAC-167	HVACR Heating	4
MCTE-106	Technical Math for Industrial Mechanic/ Millwright; HVACR, Welding (or higher)	3-5
		<b>Semester Total 21-24</b>

#### Second Semester

ATEC-117	Occupational Relations and Job Search <sup>1</sup>	2
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition (3)	
HVAC-171L	HVACR Lab II	5
HVAC-175	HVACR Systems	4
HVAC-177	Refrigeration	4
HVAC-180	HVACR Codes and Licenses	3
		<b>Semester Total 21</b>
		<b>Program Total 42-44</b>

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# History

## Associate of Arts Degree

### Transfer Program

The History major is designed for students desiring a broad liberal arts background either as preparation for a profession or for personal enrichment. Careers in history include teaching (primary, secondary, or college level), museum work, historical research and writing, and preserving and interpreting history for the general public through a variety of local, state, and federal agencies. The History major is also highly recommended preparation for law, politics, the ministry, and public service. Because it develops breadth of knowledge as well as critical thinking and problem-solving skills, a History degree is widely considered an excellent foundation for many managerial and executive careers. For this reason, it is a fine choice for the general studies student.

Completion of the following courses normally fulfills the first half of bachelor's degree requirements in History. Course selections should be tailored to match requirements of the intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>1</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

HIST-101	History of Civilization to 1500	3
HIST-102	History of Civilization Since 1500	3
HIST-111	United States History: Discovery to Reconstruction	3
HIST-112	United States History: Gilded Age to Present	3
HIST-290	The Historian's Craft	3

#### Elective Requirements

Courses 100-level or higher	10-12
<b>Total Credits (minimum) 60</b>	

#### Notes:

<sup>1</sup> This General Education Requirement is partially met by the Program Requirements.

#### Recommended Courses

POLS-101	American National Government	3
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#### Choose 4-18 credits from the following subjects: 4-18

CDA	Coeur d'Alene Language
FREN	French Language
GERM	German Language
ITAL	Italian Language
JAPA	Japanese Language
SPAN	Spanish Language



# Hospitality Management

## Intermediate Technical Certificate

### Career and Technical Program

Hospitality Management provides an overview of the various departmental functions within the hospitality and tourism industry. Students will learn skills in general management, customer service, front office and rooms operations, event planning, safety and sanitation, food appreciation, and bar and beverage management and controls. Business ethics and effective communication skills are also emphasized. This one-year certificate program offers the basic skills needed to start a career as a hospitality manager. Most graduates will enter the field as trainees or supervisors.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CAOT-165	Productivity Software for Tech Programs	1
HOSP-100	Introduction to Hospitality and Tourism	3
HOSP-110	Front Office Procedures	3
HOSP-111	Food Safety and Sanitation	3
HOSP-117	Careers in Hospitality	3
MCTE-101	Technical Mathematics (or higher)	<u>3-5</u>
		<b>Semester Total 16-18</b>

#### Second Semester

ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
HOSP-102	Guest Focused Service	3
HOSP-215	Bar and Beverage Management	3
HOSP-225	Event Planning and Management	3
HOSP-235	Food Appreciation	<u>4</u>
		<b>Semester Total 16</b>
		<b>Program Total 32-34</b>

# Hospitality Management

## Advanced Technical Certificate

### Career and Technical Program

The Hospitality Management program prepares students for entry-level management in the hospitality industry. Hospitality Management blends classroom instruction with hands-on learning in the areas of management, human resources, accounting, food and beverage operations, and lodging operations. An internship provides students with an opportunity to work in the field and be well prepared for future employment in restaurant, catering, hotels, and other segments of the hospitality industry.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CAOT-165	Productivity Software for Tech Programs	1
HOSP-100	Introduction to Hospitality and Tourism	3
HOSP-110	Front Office Procedures	3
HOSP-111	Food Safety and Sanitation	3
HOSP-117	Careers in Hospitality	3
MCTE-101	Technical Mathematics (or higher)	<u>3-5</u>

**Semester Total 16-18**

#### Second Semester

ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
HOSP-102	Guest Focused Service	3
HOSP-215	Bar and Beverage Management	3
HOSP-225	Event Planning and Management	3
HOSP-235	Food Appreciation	<u>4</u>

**Semester Total 16**

#### Third Semester

BUSA-265	Legal Environment of Business	3
COMM-101	Introduction to Speech Communication	3
HOSP-140	Leadership Principles	3
HOSP-250	Risk Management	<u>3</u>

**Semester Total 12**

#### Fourth Semester

ACCT-110	Small Business Accounting	3
or ACCT-201	Principles of Accounting	(3)
BUSA-221	Principles of Marketing	3
HOSP-230	Financial Management	3
HOSP-290	Hospitality Field Experience	<u>3</u>

**Semester Total 12**

**Program Total 56-58**

# Hospitality Management

## Associate of Applied Science Degree

### Career and Technical Program

The Hospitality Management program prepares students for entry-level management in the hospitality industry. Hospitality Management blends classroom instruction with hands-on learning in the areas of management, human resources, accounting, food and beverage operations, and lodging operations. An internship provides students with an opportunity to work in the field and be well prepared for future employment in restaurant, catering, hotels, and other segments of the hospitality industry.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CAOT-165	Productivity Software for Tech Programs	1
HOSP-100	Introduction to Hospitality and Tourism	3
HOSP-110	Front Office Procedures	3
HOSP-111	Food Safety and Sanitation	3
HOSP-117	Careers in Hospitality	3
MATH-123	Contemporary Math (or higher) <sup>1</sup>	<u>3-5</u>

**Semester Total 16-18**

#### Second Semester

ENGL-101	English Composition <sup>2</sup>	3
HOSP-102	Guest Focused Service	3
HOSP-215	Bar and Beverage Management	3
HOSP-225	Event Planning and Management	3
HOSP-235	Food Appreciation	<u>4</u>

**Semester Total 16**

#### Third Semester

BUSA-221	Principles of Marketing	3
BUSA-265	Legal Environment of Business	3
COMM-101	Introduction to Speech Communication <sup>2</sup>	3
HOSP-140	Leadership Principles	3
HOSP-250	Risk Management	<u>3</u>

**Semester Total 15**

#### Fourth Semester

ACCT-110	Small Business Accounting	3
or ACCT-201	Principles of Accounting	(3)
HOSP-230	Financial Management	3
HOSP-290	Hospitality Field Experience	3
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
_____	A.A.S. Institutionally Designated <sup>3</sup>	<u>3</u>

**Semester Total 15**

**Program Total 62-64**

#### Notes:

- <sup>1</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>2</sup> Satisfies A.A.S. degree general education requirement.
- <sup>3</sup> Select from A.A.S. degree requirements listed on page 50.

# Humanities

## Associate of Arts Degree

### Transfer Program

The Humanities program at NIC is grounded in an interdisciplinary approach to the liberal arts, including the fine arts of music, visual art, and theater; English literature and composition; history; philosophy; communication; and interdisciplinary studies. Courses in the humanities are excellent preparation for careers in the arts, business, law, and education. A degree in the humanities develops critical thinking skills that prepare students to succeed in an interconnected world. Courses require students to synthesize ideas from a range of disciplines and to think creatively when approaching complex problems. Students study and interact with a range of texts from diverse perspectives while working cooperatively, thinking, reading, speaking, writing, and engaging actively in experiential learning.

Completion of the courses below results in an Associate of Arts Degree and meets the general core requirements at all Idaho public universities. The suggested coursework normally fulfills the first half of baccalaureate degree requirements. Course selection should be tailored to match requirements defined by intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	0
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

ENGL-205	Interdisciplinary Writing	3
HUMS-101	Montage: Introduction to the Humanities	3
INTR-200	Interdisciplinary Seminar	3

#### Choose 3 credits from the following courses: 3

HUMS-205	Visual Texts and Culture
HUMS-126	Cinema Arts
or CINA-126	Cinema Arts
HUMS-295	Themes in the Humanities

#### Choose 9 credits from the following subjects: 9

ART  
 COMM  
 ENGL  
 FLAN  
 HIST  
 HUMS  
 INTR  
 MUSA  
 MUSC  
 MUSH  
 MUSP  
 PHIL  
 THEA

#### Elective Requirements

Courses 100-level or higher	<u>7-9</u>
<b>Total Credits (minimum) 60</b>	

#### Notes:

<sup>1</sup> This General Education Requirement is met by the Program Requirements.

# Industrial Mechanic/Millwright

## Intermediate Technical Certificate

### Career and Technical Program

This 11-month program prepares students for employment as industrial plant maintenance mechanics or millwrights. Students learn the basics of maintenance, fabrication, installation, and alignment of equipment used in modern industrial and manufacturing plants.

Theory classes provide technical information pertaining to welding, hydraulics, electricity, rigging, pipe fitting, mechanical drive/transmission systems, pumps, and equipment installation and alignment.

Laboratory classes teach students to skillfully perform welding and fabrication tasks as well as the maintenance of hydraulic, electro/mechanical systems. The well-equipped lab includes the latest technology in laser alignment of rotating equipment. Blueprint reading and shop math are taught and used in all areas of training. A general education component of English, occupational relations, and math is integrated into the program. Successful completion of the first semester or instructor permission is required to continue into the second semester and summer session.

Interested students should possess basic math skills (knowledge of basic algebra and geometry), reading skills, and have a keen interest in mechanics. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43).

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
MM-150	Industrial Mechanic I	8
MM-151L	Industrial Mechanic Lab I	5
MM-155	Industrial Blueprints	2
MCTE-106	Technical Math for Maintenance Mechanic/ Millwright/HVAC/Welding	3
		<b>Semester Total 18</b>

#### Second Semester

A TEC-117	Occupational Relations and Job Search <sup>1</sup>	2
ECTE-100	Fundamentals for Writing	3
	or ENGL-101 English Composition	(3)
MM-152	Industrial Mechanic II	7
MM-152L	Industrial Mechanic Lab II	5
MM-156	Industrial Hydraulics	3
		<b>Semester Total 20</b>

#### Summer Session

MM-153	Industrial Mechanics III	2
MM-153L	Industrial Mechanics Lab III	4
		<b>Session Total 6</b>
		<b>Program Total 44</b>

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Interdisciplinary Studies

## Associate of Arts Degree

### Transfer Program

NIC's interdisciplinary associate's degree program helps students to develop critical and creative thinking skills that will prepare them to succeed in a complex, interconnected world and in a variety of professions. Students choose two areas of focus from two different departments. In interdisciplinary classes and other courses taught by faculty participating in the program, students are encouraged to recognize and make connections among disciplines and reflect on integrated themes. Experiential learning, writing and speaking across the curriculum, collaborative learning, and individualized advising unite faculty and students in the program.

Completion of the following courses results in an Associate of Arts Degree and meets the general core requirements defined by intended transfer institutions. Collaboration among NIC and Coeur d'Alene campuses of the University of Idaho and Lewis-Clark State College make a local baccalaureate degree in Interdisciplinary Studies accessible.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	0
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

HUMS-101	Montage: Introduction to Humanities	3
INTR-200	Interdisciplinary Seminar	3

#### Elective Requirements

Minimum General Electives in first area of focus	9
Minimum General Electives in second area of focus	9
Courses 100-level or higher	4-6
<b>Total Credits (minimum) 60</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.

# Journalism

## Associate of Arts Degree

### Transfer Program

This program improves writing skills while preparing students for careers in journalism or communication. COMJ courses focus on improving the skills needed to disseminate engaging content on multiple platforms. Students mix theoretical training with practical experience by working as staff on the national award-winning NIC newspaper, The Sentinel, and its multimedia website, [www.nicsentinel.com](http://www.nicsentinel.com).

Completion of the following courses results in an associate's degree and meets the general core requirements at all Idaho public universities. The suggested coursework normally fulfills the first half of baccalaureate degree requirements in Journalism. Course selection should be tailored to match requirements defined by intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing <sup>2</sup>	0
GEM 7 - Institutionally Designated	4

#### Program Requirements

COMJ-100	Sentinel Staff	1-2
COMJ-121	Introduction to Media Writing	3
COMJ-140	Mass Media in a Free Society	3
COMJ-222	Modern Reporting	3
COMM-111	Interview Techniques	2
PHTO-183	Introduction to Digital Photography	3
PHTO-289	Photojournalism	3

#### Choose one of the following:

PHIL-103	Ethics	3
PHIL-201	Logic and Critical Thinking	

#### Choose one of the following:

POLS-101	American National Government	3
PSYC-101	Introduction to Psychology	

#### Elective Requirements

Courses 100-level or higher	6-9
<b>Total Credits (minimum) 60</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is partially met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is met by the Program Requirements.

#### Recommended Course

ENGL-293	Literary Nonfiction	3
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# Law Enforcement

## Basic Technical Certificate

### Career and Technical Program

This program is designed to train newly-hired law enforcement agency officers, as well as to prepare students who wish to be employed in law enforcement. Students may elect to complete the Basic Technical Certificate, the Intermediate Technical Certificate, or the Associate of Applied Science Degree requirements. This program includes two weeks of pre-academy coursework in which the 90 hours of online materials must be completed and turned in prior to the start of the academy and the 14-week Peace Officer Standards and Training (P.O.S.T.) approved Basic Patrol Academy for a total of 16 weeks. To successfully complete the Basic Patrol Academy, students will be required to pass all P.O.S.T. requirements for physical fitness, marksmanship, and P.O.S.T. written and certification tests.

This is a selective admissions program and applicants will be required to undergo a complete background check, including fingerprinting, a polygraph examination, a psychological evaluation, and an oral interview. Applicants must also pass P.O.S.T. required medical, vision, and hearing exams, and will be required to pass the P.O.S.T. Physical Readiness Test. Fees for these tests will be the student's responsibility. Upon acceptance into the Basic Patrol Academy, students will be required to purchase and wear Academy and P.T. uniforms while in class.

### Admission Procedures

1. Applications for the program may be picked up from the Law Enforcement Program Director at the academy in Post Falls. Contact the director for more detailed information and for admission deadlines.
2. Applicants must complete an Idaho P.O.S.T. application packet.

### Admission Requirements

1. Must be a citizen of the United States and attained the 20th birthday by the end of the academy.
2. High school diploma, GED, or have completed 15 academic college credits.
3. Two or more years of responsible work experience following high school graduation.
4. Fingerprint clearance by the Idaho State Police and the FBI. A conviction or withheld judgment for any local, state, or federal crime may be grounds for rejection.
5. Valid driver's license from the state of residence with no record of habitual violations (five or more) during the three years immediately preceding application to the Academy. No record of suspension, DUI conviction, or withheld judgment during the two years immediately preceding application to the Academy.
6. Medical examinations completed by a licensed medical physician and the medical forms filled out within the last 12 months.
7. Meet or exceed the P.O.S.T. vision and hearing standards as listed on the medical forms.
8. Pass the P.O.S.T. Physical Fitness Test taken no more than three months prior to the Academy.

9. Successfully complete a psychological evaluation conducted by a licensed psychiatrist or clinical psychologist.
10. Pass a Police Officer Selection written examination.

### Certified Law Enforcement Professionals

Students who successfully complete the Basic Patrol Academy will be given credit for LAWE 250-258.

### Program Requirements

Course No.	Title	Credits
LAWE-151	Pre-Academy U.S. Laws	1
LAWE-152	Pre-Academy Officer Investigation and Procedures	1
LAWE-250	Self Defense	2
LAWE-251	Basic Police Law	3
LAWE-252	Professional Orientation for Peace Officers	2
LAWE-253	Police Procedures	4
LAWE-254	Patrol Procedures	2
LAWE-255	Field Skills for Patrol Officers	1
LAWE-256	Investigation	3
LAWE-257	Enforcement Skills	2
LAWE-258	Police Physical Fitness	1
<b>Program Total</b>		<b>22</b>



# Law Enforcement

## Intermediate Technical Certificate

### Career and Technical Program

This program is designed to train newly-hired law enforcement agency officers, as well as to prepare students who wish to be employed in law enforcement. Students may elect to complete the Basic Technical Certificate, the Intermediate Technical Certificate, or the Associate of Applied Science Degree requirements. This program includes two weeks of pre-academy coursework in which the 90 hours of online materials must be completed and turned in prior to the start of the academy and the 14-week Peace Officer Standards and Training (P.O.S.T.) approved Basic Patrol Academy for a total of 16 weeks. To successfully complete the Basic Patrol Academy, students will be required to pass all P.O.S.T. requirements for physical fitness, marksmanship, and P.O.S.T. written and certification tests.

This is a selective admissions program and applicants will be required to undergo a complete background check, including fingerprinting, a polygraph examination, a psychological evaluation, and an oral interview. Applicants must also pass P.O.S.T. required medical, vision, and hearing exams, and will be required to pass the P.O.S.T. Physical Readiness Test. Fees for these tests will be the student's responsibility. Upon acceptance into the Basic Patrol Academy, students will be required to purchase and wear Academy and P.T. uniforms while in class.

### Admission Procedures

1. Applications for the program may be picked up from the Law Enforcement Program Director at the academy in Post Falls. Contact the director for more detailed information and for admission deadlines.
2. Applicants must complete an Idaho P.O.S.T. application packet.

### Admission Requirements

1. Must be a citizen of the United States and attained the 20th birthday by the end of the academy.
2. High school diploma, GED, or have completed 15 academic college credits.
3. Two or more years of responsible work experience following high school graduation.
4. Fingerprint clearance by the Idaho State Police and the FBI. A conviction or withheld judgment for any local, state, or federal crime may be grounds for rejection.
5. Valid driver's license from the state of residence with no record of habitual violations (five or more) during the three years immediately preceding application to the Academy. No record of suspension, DUI conviction, or withheld judgment during the two years immediately preceding application to the Academy.
6. Medical examinations completed by a licensed medical physician and the medical forms filled out within the last 12 months.
7. Meet or exceed the P.O.S.T. vision and hearing standards as listed on the medical forms.
8. Pass the P.O.S.T. Physical Fitness Test taken no more than three months prior to the Academy.

9. Successfully complete a psychological evaluation conducted by a licensed psychiatrist or clinical psychologist.
10. Pass a Police Officer Selection written examination.

### Certified Law Enforcement Professionals

Students who successfully complete the Basic Patrol Academy will be given credit for LAWE 250-258.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

Course No.	Title	Credits
<b>First Semester</b>		
ECTE-100	Fundamentals for Writing	3
	or ENGL-101 English Composition	(3)
MCTE-101	Technical Mathematics (or higher)	3-5
PE-288	First Aid	3
PHIL-103	Ethics	3
	or PSYC-101 Introduction to Psychology	(3)
<b>Prerequisite or Corequisite Total 12-14</b>		
<b>Second Semester</b>		
LAWE-151	Pre-Academy U.S. Laws	1
LAWE-152	Pre-Academy Officer Investigation and Procedures	1
LAWE-250	Self Defense	2
LAWE-251	Basic Police Law	3
LAWE-252	Professional Orientation for Peace Officers	2
LAWE-253	Police Procedures	4
LAWE-254	Patrol Procedures	2
LAWE-255	Field Skills for Patrol Officers	1
LAWE-256	Investigation	3
LAWE-257	Enforcement Skills	2
LAWE-258	Police Physical Fitness	1
<b>Semester Total</b>		<b>22</b>
<b>Program Total</b>		<b>34-36</b>

# Law Enforcement

## Associate of Applied Science Degree

### Career and Technical Program

In addition to the specific Law Enforcement courses, students must take a minimum of 15 credits of A.A.S. general education courses as specified in the program requirements.

This program is designed to train newly-hired law enforcement agency officers, as well as to prepare students who wish to be employed in law enforcement. Students may elect to complete the Basic Technical Certificate, the Intermediate Technical Certificate, or the Associate of Applied Science Degree requirements. This program includes two weeks of pre-academy coursework in which the 90 hours of online materials must be completed and turned in prior to the start of the academy and the 14-week Peace Officer Standards and Training (P.O.S.T.) approved Basic Patrol Academy for a total of 16 weeks. To successfully complete the Basic Patrol Academy, students will be required to pass all P.O.S.T. requirements for physical fitness, marksmanship, and P.O.S.T. written and certification tests.

This is a selective admissions program and applicants will be required to undergo a complete background check, including fingerprinting, a polygraph examination, a psychological evaluation, and an oral interview. Applicants must also pass P.O.S.T. required medical, vision, and hearing exams, and will be required to pass the P.O.S.T. Physical Readiness Test. Fees for these tests will be the student's responsibility. Upon acceptance into the Basic Patrol Academy, students will be required to purchase and wear Academy and P.T. uniforms while in class.

### Admission Procedures

- Applications for the program may be picked up from the Law Enforcement Program Director at the academy in Post Falls. Contact the director for more detailed information and for admission deadlines.
- Applicants must complete an Idaho P.O.S.T. application packet.

### Admission Requirements

- Must be a citizen of the United States and attained the 20th birthday by the end of the academy.
- High school diploma, GED, or have completed 15 academic college credits.
- Two or more years of responsible work experience following high school graduation.
- Fingerprint clearance by the Idaho State Police and the FBI. A conviction or withheld judgment for any local, state, or federal crime may be grounds for rejection.
- Valid driver's license from the state of residence with no record of habitual violations (five or more) during the three years immediately preceding application to the Academy. No record of suspension, DUI conviction, or withheld judgment during the two years immediately preceding application to the Academy.
- Medical examinations completed by a licensed medical physician and the medical forms filled out within the last 12 months.
- Meet or exceed the P.O.S.T. vision and hearing standards as listed on the medical forms.
- Pass the P.O.S.T. Physical Fitness Test taken no more than three months prior to the Academy.

- Successfully complete a psychological evaluation conducted by a licensed psychiatrist or clinical psychologist.
- Pass a Police Officer Selection written examination.

### Certified Law Enforcement Professionals

Students who successfully complete the Basic Patrol Academy will be given credit for LAWE 250-258.

### Program Requirements

Course No.	Title	Credits
<b>First Semester</b>		
ENGL-101	English Composition <sup>1</sup>	3
LAWE-103	Introduction to Criminal Justice	3
POLS-101	American National Government <sup>1</sup>	3
PSYC-101	Introduction to Psychology <sup>1</sup>	3
		<b>Semester Total 12</b>
<b>Second Semester</b>		
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
ENGL-202	Technical Writing	3
PE-288	First Aid	3
POLS-275	State and Local Government <sup>1</sup>	3
_____	A.A.S. Institutionally Designated <sup>1</sup>	3
		<b>Semester Total 15</b>
<b>Third Semester</b>		
PHIL-103	Ethics	3
PSYC-205	Developmental Psychology	3
or PSYC-211	Abnormal Psychology	(3)
or PSYC-223	Stress Management	(3)
SOC-155	Drug Abuse: Fact, Fiction and the Future	3
or SOC-220	Marriage and Family	(3)
or SOC-251	Race and Ethnic Relations	(3)
or SOC-283	Death and Dying	(3)
_____	A.A.S. Mathematical Ways of Knowing <sup>2</sup>	3-5
		<b>Semester Total 12-14</b>
<b>Fourth Semester</b>		
LAWE-151	Pre-Academy U.S. Laws	1
LAWE-152	Pre-Academy Officer Investigation and Procedures	1
LAWE-250	Self Defense	2
LAWE-251	Basic Police Law	3
LAWE-252	Professional Orientation for Peace Officers	2
LAWE-253	Police Procedures	4
LAWE-254	Patrol Procedures	2
LAWE-255	Field Skills for Patrol Officers	1
LAWE-256	Investigation	3
LAWE-257	Enforcement Skills	2
LAWE-258	Police Physical Fitness	1
		<b>Semester Total 22</b>
		<b>Program Total 61-63</b>

### Notes:

- Satisfies the A.A.S. degree general education requirements listed on page 50.
- Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirements listed on page 50.

# Machining and CNC Technology

## Intermediate Technical Certificate

### Career and Technical Program

The Machining and CNC Technology program prepares students for entry-level employment in the machining and manufacturing industries. The curriculum features basic to advanced machining concepts involving various machine tools such as conventional lathes, mills, grinders, and their Computer Numerical Control (CNC) counterparts. Coursework also involves blueprint reading, geometric dimensioning and tolerancing, shop math, and statistical and mechanical measurements. The second year of the program places emphasis in CNC and CAD/CAM systems and geometric dimensioning and tolerancing in preparation for employment in computerized manufacturing processes. Opportunity to certify in MasterCAM Mill is available to students who successfully complete the program.

Successful completion of each semester or permission of the instructor is required to continue into the next semester. Prospective students should have solid math skills and demonstrate mechanical aptitude. Computer and keyboarding skills are recommended. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43).

**Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
MACH-150	Machining Technology Theory I	6
MACH-151L	Machining Technology Lab I	6
MACH-171	Blueprint Reading	2
MCTE-105	Technical Math for Machining/Computer Aided Design Technologies	3
		<b>Semester Total 17</b>

#### Second Semester

A TEC-117	Occupational Relations and Job Search <sup>1</sup>	2
ECTE-100	Fundamentals for Writing or ENGL-101 English Composition	3 (3)
MACH-152L	Machining Technology Lab II	5
MACH-160	Manufacturing Processes	4
MACH-172	Blueprint Reading II	2
		<b>Semester Total 16</b>
		<b>Program Total 33</b>

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Machining and CNC Technology

## Advanced Technical Certificate

### Career and Technical Program

The Machining and CNC Technology program prepares students for entry-level employment in the machining and manufacturing industries. The curriculum features basic to advanced machining concepts involving various machine tools such as conventional lathes, mills, grinders, and their Computer Numerical Control (CNC) counterparts. Coursework also involves blueprint reading, geometric dimensioning and tolerancing, shop math, and statistical and mechanical measurements. The second year of the program places emphasis in CNC and CAD/CAM systems and geometric dimensioning and tolerancing in preparation for employment in computerized manufacturing processes. Opportunity to certify in MasterCAM Mill is available to students who successfully complete the program.

Successful completion of each semester or permission of the instructor is required to continue into the next semester. Prospective students should have solid math skills and demonstrate mechanical aptitude. Computer and keyboarding skills are recommended. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill-building prior to entering the program (see page 43).

**Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
MACH-150	Machining Technology Theory I	6
MACH-151L	Machining Technology Lab I	6
MACH-171	Blueprint Reading	2
MCTE-105	Technical Math for Machining/Computer Aided Design Technologies	3
		<b>Semester Total 17</b>

#### Second Semester

ATEC-117	Occupational Relations and Job Search <sup>1</sup>	2
ECTE-100	Fundamentals for Writing	3
	or ENGL-101 English Composition	(3)
MACH-152L	Machining Technology Lab II	5
MACH-160	Manufacturing Processes	4
MACH-172	Blueprint Reading II	2
		<b>Semester Total 16</b>

#### Third Semester

MACH-231	Computers in Machining	3
MACH-253L	Advanced Machining Lab I	5
MACH-273	Intermediate Blueprint Reading	3
MACH-283	Computer Numerical Control Theory I	5
		<b>Semester Total 16</b>

#### Fourth Semester

MACH-254L	Advanced Machining Lab II	5
MACH-274	Geometric Dimensioning and Tolerancing	3
MACH-284	Advanced Machining Processes and Techniques	5
		<b>Semester Total 13</b>
		<b>Program Total 62</b>

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Machining and CNC Technology

## Associate of Applied Science Degree

### Career and Technical Program

The Machining and CNC Technology program prepares students for entry-level employment in the machining and manufacturing industries. The curriculum features basic to advanced machining concepts involving various machine tools such as conventional lathes, mills, grinders, and their Computer Numerical Control (CNC) counterparts. Coursework also involves blueprint reading, geometric dimensioning and tolerancing, shop math, and statistical and mechanical measurements. The second year of the program places emphasis in CNC and CAD/CAM systems and geometric dimensioning and tolerancing in preparation for employment in computerized manufacturing processes. Opportunity to certify in MasterCAM Mill is available to students who successfully complete the program.

Successful completion of each semester or permission of the instructor is required to continue into the next semester. Prospective students should have solid math skills and demonstrate mechanical aptitude. Computer and keyboarding skills are recommended. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill-building prior to entering the program (see page 43).

**Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

### Program Requirements

**In addition to the specific Machine Technology courses, students must take a minimum of 15 credits of A.A.S. general education courses as specified in the program below. (The math requirement should be taken during the student's first semester of the program.)**

#### First Semester

Course No.	Title	Credits
MACH-150	Machining Technology Theory I	6
MACH-151L	Machining Technology Lab I	6
MACH-171	Blueprint Reading	2
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup> (MATH-143 recommended)	<u>3-5</u>
		<b>Semester Total 17-19</b>

#### Second Semester

ENGL-101	English Composition <sup>2</sup>	3
MACH-152L	Machining Technology Lab II	5
MACH-160	Manufacturing Processes	4
MACH-172	Blueprint Reading II	2
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	<u>3</u>
		<b>Semester Total 17</b>

#### Third Semester

COMM-101	Introduction to Speech Communication <sup>2</sup>	3
MACH-231	Computers in Machining	3
MACH-253L	Advanced Machining Lab I	5
MACH-273	Intermediate Blueprint Reading	3
MACH-283	Computer Numerical Control Theory I	<u>5</u>
		<b>Semester Total 19</b>

#### Fourth Semester

MACH-254L	Advanced Machining Lab II	5
MACH-274	Geometric Dimensioning and Tolerancing	3
MACH-284	Advanced Machining Processes and Techniques	5
_____	A.A.S. Institutionally Designated <sup>3</sup>	<u>3</u>
		<b>Semester Total 16</b>
		<b>Program Total 69-71</b>

#### Notes:

- <sup>1</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>2</sup> Satisfies A.A.S. degree general education requirement.
- <sup>3</sup> Select from A.A.S. degree general education requirements listed on page 50.

# Mathematics

## Associate of Science Degree

### Transfer Program

This program leads to careers in teaching, industry, government, actuarial work, or as support for many science disciplines. The mathematics background assumed for entry is four years of high school mathematics through pre-calculus and trigonometry. These entry-level courses, if needed, are also available through the college. Completion of the following courses normally fulfills the first half of bachelor's degree requirements in Math. Course selections should be tailored to match requirements of the intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>2</sup>	4
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
CS-150	Computer Science I	4
MATH-170	Analytic Geometry and Calculus I	4
MATH-175	Analytic Geometry and Calculus II	4
MATH-187	Discrete Mathematics	4
MATH-275	Analytic Geometry and Calculus III	4
MATH-335	Linear Algebra	3
MATH-370	Introduction to Ordinary Differential Equations	3
PHYS-211	Engineering Physics I	5
PHYS-212	Engineering Physics II	5

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum) 65</b>	

#### Recommended Courses

CHEM-111	Principles of Chemistry I	5
CHEM-112	Principles of Chemistry II	5

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is partially met by the Program Requirements.

# Mechatronics

## Advanced Technical Certificate

### Career and Technical Program

Mechatronics is a multifaceted field that utilizes many areas of mechanics including electronics, automation, computers, hydraulics, programmable logic controllers, electrical systems, and mechanical systems. The Mechatronics program is designed to prepare students for employment as entry-level technicians, and emphasizes extensive practical experience in both theory and laboratory settings using mock-up equipment and assemblies similar to those found in industry. Instruction advances many of the concepts learned in the first year Industrial Mechanics/Millwright portion of the program and includes theory, troubleshooting, and hands-on application in mechatronics, programmable logic controllers, pneumatics, AC and DC electrical systems, hydraulics, and motor control. Successful completion of the first two semesters of the IMM certificate program or permission of the instructor is required to enroll in the Mechatronics program. The second year of the program leads to an Advanced Technical Certificate in Mechatronics and is intended to advance the skills learned in the one year (IMM) Intermediate Certificate program.

Successful completion of each semester or permission of the instructor is required to continue into successive semesters. Placement in specific English and Math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a professional-technical limited-enrollment program will need to take selected courses to receive necessary skill-building prior to entering the program (see page 43).

**Note: Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
MM-150	Industrial Mechanic I	8
MM-151L	Industrial Mechanic Lab I	5
MM-155	Industrial Blueprints	2
MCTE-106	Technical Mathematics for Industrial Mechanic/Millwright; Heating, Ventilation, Air Conditioning, and Refrigeration; Welding	3
		<b>Semester Total 18</b>

#### Second Semester

ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
MM-152	Industrial Mechanic II	7
MM-152L	Industrial Mechanic Lab II	5
MM-156	Industrial Hydraulics	3
		<b>Semester Total 18</b>

#### Third Semester

MECH-210	Mechatronics I	5
MECH-210L	Mechatronics Lab I	4
MECH-211	Programmable Logic Controllers I	3
		<b>Semester Total 12</b>

#### Fourth Semester

ATEC-117	Applied Technology	2
MECH-220	Advanced Mechatronics II	4
MECH-220L	Advanced Mechatronics Lab II	4
MECH-221	Advanced Programmable Logic Controllers II	2
		<b>Semester Total 12</b>
		<b>Program Total 60</b>

# Mechatronics

## Associate of Applied Science Degree

### Career and Technical Program

In addition to the specific Mechatronics courses, students must take a minimum of 15 credits of A.A.S. general education courses as specified in the program requirements. (The math requirement should be taken during the student's first semester of the program.)

Mechatronics is a multifaceted field that utilizes many areas of mechanics including electronics, automation, computers, hydraulics, programmable logic controllers, electrical systems, and mechanical systems. The Mechatronics program is designed to prepare students for employment as entry-level technicians, and emphasizes extensive practical experience in both theory and laboratory settings using mock-up equipment and assemblies similar to those found in industry. Instruction advances many of the concepts learned in the first year Industrial Mechanics/Millwright portion of the program and includes theory, troubleshooting, and hands-on application in mechatronics, programmable logic controllers, pneumatics, AC and DC electrical systems, hydraulics, and motor control. Successful completion of the first two semesters of the IMM certificate program or permission of the instructor is required to enroll in the Mechatronics program. The second year of the program leads to an Advanced Technical Certificate or A.A.S. degree in Mechatronics and is intended to advance the skills learned in the one year (IMM) Intermediate Certificate program.

Successful completion of each semester or permission of the instructor is required to continue into successive semesters. Placement in specific English and Math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a professional-technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43).

**Note: Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

### Program Requirements

#### First Semester

Course No.	Title	Credits
MM-150	Industrial Mechanic I	8
MM-151L	Industrial Mechanic Lab I	5
MM-155	Industrial Blueprints	2
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup> 3-5	3
		<b>Semester Total 18-20</b>

#### Second Semester

ENGL-101	English Composition <sup>2</sup>	3
MM-152	Industrial Mechanic II	7
MM-152L	Industrial Mechanic Lab II	5
MM-156	Industrial Hydraulics	3
		<b>Semester Total 18</b>

#### Third Semester

COMM-101	Introduction to Speech Communication <sup>2</sup>	3
MECH-210	Mechatronics I	5
MECH-210L	Mechatronics Lab I	4
MECH-211	Programmable Logic Controllers I	3
		<b>Semester Total 15</b>

#### Fourth Semester

MECH-220	Advanced Mechatronics II	4
MECH-220L	Advanced Mechatronics Lab II	4
MECH-221	Advanced Programmable Logic Controllers II	2
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 16</b>
		<b>Program Total 67-69</b>

#### Notes:

- <sup>1</sup> Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>2</sup> Satisfies A.A.S. degree requirement.
- <sup>3</sup> Select from A.A.S. degree general education requirements listed on page 50.



# Medical Administrative Assistant

## Associate of Applied Science Degree

### Career and Technical Program

For those who have always been interested in the medical field but find their strengths lie in clerical administration, a career as a medical administrative assistant could be the perfect choice. Medical administrative assistants combine clerical skills and word processing with specialization in medical terminology, anatomy, medical transcription, and medical coding.

Physicians rely on well-trained medical administrative assistants to help them in the documentation of patient care. The medical administrative assistant's job, using the latest technology, may include transcribing reports, composing and processing correspondence, coding of diagnoses and procedures, completing insurance forms, maintaining financial records, greeting and scheduling patients, and other related duties. Strong human relation skills are a must in this field.

Students will be provided opportunities to develop skills to gain employment in clinics, private medical practices, hospitals, nursing homes, medical insurance and billing companies, and a variety of other health care facilities. With experience, the graduate may advance to office manager or department supervisor.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CAOT-120	Word Processing/Word I	1
CAOT-121	Word Processing/Word II	1
CAOT-164	Computer Fundamentals for Tech Programs	1
CAOT-166	Living Online for Tech Programs	1
CAOT-179	Medical Terminology	2
CAOT-183	Business Editing and Proofreading	3
ENGL-101	English Composition <sup>1</sup>	3
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>2</sup>	3
		<b>Semester Total 15</b>

#### Second Semester

BIOL-175	Human Biology <sup>1</sup>	4
CAOT-122	Word Processing/Word III	1
CAOT-140	Database/Access I	1
CAOT-150	PowerPoint	1
CAOT-168	Integrated Medical Office Software	3
CAOT-205	Business Document Formatting/Transcription	2
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
		<b>Semester Total 15</b>

#### Third Semester

ACCT-110	Small Business Accounting	3
or ACCT-201	Principles of Accounting	(3)
CAOT-115	Outlook	1
CAOT-130	Spreadsheets/Excel I	1
CAOT-131	Spreadsheets/Excel II	1
CAOT-132	Spreadsheets/Excel III	1
CAOT-180	Legal Issues in Health Care	1
CAOT-184	Records Systems Management	3
CAOT-204	Career Leadership	1
CAOT-216	Medical Transcription I	1
CAOT-217	Medical Transcription II	1
		<b>Semester Total 14</b>

#### Fourth Semester

CAOT-186	Medical Coding	3
CAOT-210	Office Procedures	3
CAOT-224	Medical Administrative Assistant Internship	3
CAOT-250	Office Skills Capstone	1
ENGL-272	Business Writing	3
_____	A.A.S. Mathematical Ways of Knowing <sup>3</sup>	3-5
		<b>Semester Total 16-18</b>
		<b>Program Total 60-62</b>

#### Notes:

- <sup>1</sup> Satisfies A.A.S. degree general education requirement.
- <sup>2</sup> Select from A.A.S. degree general education requirements listed on page 50.
- <sup>3</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.

# Medical Assistant

## Intermediate Technical Certificate

### Career and Technical Program

The Medical Assistant program prepares students to work as entry-level health care providers in settings such as physician's offices, health care clinics, and hospitals. The role of the medical assistant is to assist the physician and other professionals in managing the care of clients. Medical assistants are responsible for performing duties in the areas of office management, patient care, and collecting and processing laboratory specimens. Medical assistants work under the direct supervision of a physician or other designated professional.

The Medical Assistant program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) upon the recommendation of the Medical Assisting Education Review Board (MAERB).

Successful completion of the Medical Assistant Intermediate Technical Certificate program will result in eligibility to take the national certification exam for medical assisting. Students are encouraged to continue their education by completing the Medical Assistant A.A.S degree.

This is a competitive-entry program. For program specific requirements please refer to the program website.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
BIOL-175	Human Biology	4
MCTE-102	Computational Skills for Allied Health	3
		<b>Semester Total 7</b>

#### Second Semester

CAOT-168	Integrated Medical Office Software	3
CAOT-179	Medical Terminology	2
MAST-100	Phlebotomy	2
MAST-101	Clinical Skills for Medical Assistants I	3
MAST-111	Administrative Skills for Medical Assistant I	3
PHAR-150	Introduction to Pharmacology	3
		<b>Semester Total 16</b>

#### Third Semester

ALTH-107	Communication for Health Professions	1
CAOT-186	Medical Coding	3
MAST-201	Clinical Skills for Medical Assistants II	3
MAST-205	Administration of Medications	3
MAST-211	Administrative Skills II	3
PSYC-101	Introduction to Psychology	3
or SOC-101	Introduction to Sociology	(3)
		<b>Semester Total 16</b>

#### Fourth Semester

ENGL-101	English Composition	3
MAST-216	Medical Assistant Externship	5
		<b>Semester Total 8</b>
		<b>Program Total 47</b>

# Medical Assistant

## Associate of Applied Science Degree

### Career and Technical Program

The Medical Assistant program prepares students to work as entry-level health care providers in settings such as physician's offices, health care clinics, and hospitals. The role of the medical assistant is to assist the physician and other professionals in managing the care of clients. Medical assistants are responsible for performing duties in the areas of office management, patient care, and collecting and processing laboratory specimens. Medical assistants work under the direct supervision of a physician or other designated professional.

The Medical Assistant program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) upon the recommendation of the Medical Assisting Education Review Board (MAERB).

Successful completion of the Medical Assistant Intermediate Technical Certificate program will result in eligibility to take the national certification exam for medical assisting. Students are encouraged to continue their education by completing the Medical Assistant A.A.S degree.

This is a competitive-entry program. For program specific requirements, please refer to the program website.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
BIOL-175	Human Biology	4
CAOT-179	Medical Terminology	2
PSYC-101	Introduction to Psychology	3
or SOC-101	Introduction to Sociology	(3)
		<b>Semester Total 9</b>

#### Second Semester

CAOT-120	Word Processing/Word I	1
CAOT-121	Word Processing/Word II	1
CAOT-122	Word Processing/Word III	1
CAOT-168	Integrated Medical Office Software	3
COMM-101	Introduction to Speech Communication	3
ENGL-101	English Composition	3
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup> 3-5	
		<b>Semester Total 15-17</b>

#### Third Semester

CAOT-180	Legal Issues in Health Care	1
MAST-100	Phlebotomy	2
MAST-101	Clinical Skills for Medical Assistants I	3
MAST-111	Administrative Skills for Medical Assistants I	3
MAST-180	Introduction to Human Disease	3
PHAR-150	Introduction to Pharmacology	3
		<b>Semester Total 15</b>

#### Fourth Semester

ATEC-110	Successful Job Search	1
CAOT-186	Medical Coding	3
MAST-201	Clinical Skills for Medical Assistants II	3
MAST-205	Administration of Medications	3
MAST-211	Administrative Skills II	3
		<b>Semester Total 13</b>

#### Fifth Semester

MAST-216	Medical Assistant Externship	5
MAST-230	CMA Exam Review	3
		<b>Semester Total 8</b>
		<b>Program Total 60-62</b>

#### Notes:

<sup>1</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.

# Medical Billing Specialist

## Associate of Applied Science Degree

### Career and Technical Program

Trained, qualified medical billing specialists are in demand, particularly if they possess ICD and CPT coding skills. The Medical Billing Specialist program is designed to prepare individuals for entry-level positions processing and managing third-party reimbursement and managing patient accounts receivables in non-hospital health care settings. Physician practices, clinics, health maintenance organizations, and other health care entities including private billing services are all employment options. The Medical Billing Specialist Associate of Applied Science Degree includes both theoretical and practical laboratory instruction.

Students will complete general education courses and courses in medical terminology, coding, insurance reimbursement, medicolegal issues, manual and computerized accounting, and credit and collections. With a variety of career experiences, a professional medical billing specialist may pursue a Certified Coding Associate (CCA) credential by passing the national certification examination administered by the American Health Information Management Association (AHIMA) or the Certified Professional Coder (CPC) credential by passing the national certification examination administered by the American Academy of Professional Coders (AAPC). The medical billing specialist pursues a lifelong program of continuing education.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
ACCT-110	Small Business Accounting	3
ACCT-150	10-Key Skill Building	1
CAOT-120	Word Processing/Word I	1
CAOT-130	Spreadsheets/Excel I	1
CAOT-131	Spreadsheets/Excel II	1
CAOT-132	Spreadsheets/Excel III	1
CAOT-164	Computer Fundamentals for Tech Programs	1
CAOT-179	Medical Terminology	2
ENGL-101	English Composition <sup>1</sup>	3
<b>Semester Total</b>		<b>14</b>

#### Second Semester

ACCT-111	Small Business Accounting II	3
CAOT-121	Word Processing/Word II	1
CAOT-122	Word Processing/Word III	1
CAOT-140	Database/Access I	1
CAOT-168	Integrated Medical Office Software	3
CAOT-186	Medical Coding	3
CAOT-210	Office Procedures	3
<b>Semester Total</b>		<b>15</b>

#### Third Semester

ACCT-244	Credit and Collections	3
BIOL-175	Human Biology <sup>1</sup>	4
CAOT-180	Legal Issues in Health Care	1
CAOT-184	Records Systems Management	3
CAOT-225	Medical Billing Specialist Internship I	4
<b>Semester Total</b>		<b>15</b>

#### Fourth Semester

CAOT-226	Medical Billing Specialist Internship II	4
CAOT-250	Office Skills Capstone	1
COMM-101	Introduction to Speech Communication	3
ENGL-272	Business Writing	3
_____	A.A.S. Mathematical Ways of Knowing <sup>2</sup> 3-5	
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
<b>Semester Total</b>		<b>17-19</b>
<b>Program Total</b>		<b>61-63</b>

#### Notes:

- <sup>1</sup> Satisfies A.A.S. degree general education requirement.
- <sup>2</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>3</sup> Select from A.A.S. degree general education requirements listed on page 50.

# Medical Laboratory Technology

## Associate of Applied Science Degree

### Career and Technical Program

The Medical Laboratory Technology (MLT) program prepares graduates to work as medical lab technicians qualified to perform various laboratory procedures, including low-, medium-, and high-complexity testing. The MLT program includes instruction in the laboratory disciplines of microbiology, hematology, medical chemistry, transfusion medicine, urinalysis, and lab operations. Coursework is closely connected to student laboratory opportunities. After completing the theory for the discipline, clinical internship experiences are arranged offering students opportunities to practice in real-world laboratory environments.

Upon completion of the program, students are eligible to sit for a national certification examination. The certification of choice for most employers is through the American Society of Clinical Pathology (ASCP) Board of Certification. An individual must pass this examination to be eligible for most employment opportunities in medical labs in Idaho and Washington.

The Medical Laboratory Technology program is a selective admissions program. Ten students are admitted to the program each Fall Semester. Course requirements prior to the core MLT courses are open to all students who meet specific course prerequisites. An A.A.S degree can be obtained in a 24-month course of study following completion of the required prerequisites. A minimum cumulative grade point average of C+/2.3 is required on all MLT courses.

This is a competitive-entry program. For program specific requirements, please refer to the program website.

### Program Requirements

#### First Semester

Course No.	Title	Credits
BIOL-175	Human Biology	4
or BIOL-227	Human Anatomy and Physiology	(4)
CHEM-101	Introduction to Essentials fo General Chemistry I	4
or CHEM-111	Principles of General College Chemistry I	(5)
ENGL-101	English Composition	3
MATH-143	College Algebra	3

**Semester Total 14-15**

#### Second Semester

BACT-250	General Microbiology	4
CHEM-275	Carbon Compounds	3
or CHEM-112	Principles of College Chemistry II	(5)
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
PSYC-101	Introduction to Psychology <sup>1</sup>	3

**Semester Total 13-15**

#### Third Semester

MLT-100	Phlebotomy	2
MLT-124	Medical Lab Fundamentals	3
MLT-214	Hematology and Hemostasis	4
MLT-222	Basic Concepts in Transfusion Medicine	4

**Semester Total 13**

#### Fourth Semester

MLT-218	Medical Lab Chemistry	4
MLT-225	Parasitology, Mycology and Virology	2

**Semester Total 6**

#### Fifth Semester

MLT-112	Urinalysis and Other Body Fluids	2
MLT-220	Medical Microbiology	5
MLT-223	Immunology and Molecular Techniques	3
MLT-224	Advanced Medical Laboratory Technology Student Lab Practice	3

**Semester Total 13**

#### Sixth Semester

MLT-250	Capstone Seminar and Exam Review	5
MLT-291	Internship I	4
MLT-292	Internship II	4

**Semester Total 13**

**Total Credits 72-75**

#### Notes:

<sup>1</sup> Satisfies A.A.S. degree requirement.

# Medical Receptionist

## Intermediate Technical Certificate

### Career and Technical Program

Medical receptionists hold key positions in a medical office in greeting patients, scheduling appointments, processing patient information, managing the reception desk, and assisting with other administrative responsibilities. In today's modern medical office environment, the medical receptionist requires skills in human relations, data and word processing, records management, release of information, and respect for the confidential nature of patient information. Job opportunities are found in physician offices, hospitals, clinics, and medical facilities. Characteristics for career success include an interest in medicine; a desire to work with physicians and health care professionals; the ability to multi-task and prioritize work; a positive, caring personality; high energy; and a desire to help people.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
BLDR-120	Financial Business Applications	3
CAOT-120	Word Processing/Word I	1
CAOT-164	Computer Fundamentals for Tech Programs	1
CAOT-179	Medical Terminology	2
CAOT-183	Business Editing and Proofreading	3
COMM-101	Introduction to Speech Communication	3
or COMM-233	Interpersonal Communication	(3)
		<b>Semester Total 13</b>

#### Second Semester

CAOT-121	Word Processing/Word II	1
CAOT-122	Word Processing/Word III	1
CAOT-130	Spreadsheets/Excel I	1
CAOT-140	Database/Access I	1
CAOT-168	Integrated Medical Office Software	3
CAOT-210	Office Procedures	3
CAOT-205	Business Document Formatting/Transcription	2
		<b>Semester Total 12</b>

#### Third Semester

CAOT-180	Legal Issues in Health Care	1
CAOT-184	Records Systems Management	3
CAOT-191	Medical Receptionist Internship I	3
CAOT-216	Medical Transcription I	1
CAOT-217	Medical Transcription II	1
CAOT-250	Office Skills Capstone	1
PE-288	First Aid	3
		<b>Semester Total 13</b>
		<b>Program Total 38</b>

# Modern Languages

## Associate of Arts Degree

### Transfer Program

The study of world cultures is an integral part of a well-rounded education. Learning a modern language provides a sense of shared humanity and offers insight into the human mind, thus helping international understanding. It improves intellectual skills; helps the learner understand the customs, culture, and literature of other countries; and provides a wealth of material in other languages. The knowledge of modern languages is in demand in business and commerce, civil service, law, media, applied sciences, service occupations, tourism, social sciences, and engineering among others. Students wanting to major in a modern language are urged to complete an Associate of Arts Degree. Completion of the following courses results in an associate's degree and meets the general core requirements at all Idaho public universities. The suggested coursework normally fulfills the first half of baccalaureate degree requirements in modern language. Course selection should be tailored to match requirements defined by your intended transfer institution.

It is strongly suggested that students majoring in modern language take courses in at least two modern languages since many universities require such before issuing a Bachelor of Arts in modern languages.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	0
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

FLAN-207	Contemporary World Cultures	3
Modern Language (select one; 101, 102, 201, and 202)		18

#### Choose one course from the following:

COMM-220	Intercultural Communication	3
SOC-103	Cultural Diversity	

#### Elective Requirements

Courses 100-level or higher	4-6
<b>Total Credits (minimum) 60</b>	

#### Notes:

<sup>1</sup> This General Education Requirement is met by the Program Requirements.

# Music

## Associate of Arts Degree

### Transfer Program

This program is designed for students who wish to pursue a professional career in music by providing the necessary background in music theory, history, and performance. Students also may pursue their musical interests as an avocation through the program. Music courses promote skills which prepare students for fields outside of music, emphasizing communication, literary, physical, technical, and business skills. There are no program prerequisites. Previous experience in high school or community music programs is helpful. Students interested in scholarships must audition and selection is based on performance, grades, and letters of recommendation.

### Recommended First-Semester Class Schedule

MUSC-117	Music Convocation (each semester)	0
MUSA-124	Individual Instruction	2
MUSC-141	Harmony and Theory I	3
MUSC-141L	Harmony and Theory I Laboratory	1
MUSA-145	Piano Class I	1
MUSX-215	Introduction to Digital Recording and Notation	1
ENGL-101	English Composition	3
MATH-123	Contemporary Mathematics (or other general education Math)	3
_____	Musical Ensemble	<u>1</u>
<b>Semester Total</b>		<b>15</b>

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated <sup>1</sup>	3

#### Program Requirements

Course No.	Title	Credits
MUSA-124	Individual Instruction	8
MUSA-145	Piano Class I	1
MUSA-146	Piano Class II	1
MUSA-245	Piano Class III	1
MUSA-246	Piano Class IV	1
MUSC-117	Music Convocation (each semester)	0
MUSC-141	Harmony and Theory I	3
MUSC-141L	Harmony and Theory I Laboratory	1
MUSC-142	Harmony and Theory II	3
MUSC-142L	Harmony and Theory II Laboratory	1
MUSC-241	Harmony and Theory III	3
MUSC-241L	Harmony and Theory III Laboratory	1
MUSC-242	Harmony and Theory IV	3
MUSC-242L	Harmony and Theory IV Laboratory	1
MUSH-101	Survey of Music	3

#### Complete one musical ensemble course each semester from the following:

MUSP-103	North Idaho College Cardinal Chorale	4-6
MUSP-104	Vocal Jazz Ensemble	
MUSP-106	North Idaho College Wind Symphony	
MUSP-107	Cardinal Pep Band	
MUSP-110M	Chamber Singers	
MUSP-111C	Chamber Ensemble	
MUSP-111O	Cardinal Chamber Orchestra	
MUSP-113	North Idaho Jazz Ensemble	

#### Elective Requirements

Courses 100-level or higher	<u>0</u>
<b>Total Credits (minimum) 67</b>	

#### Notes:

<sup>1</sup> This General Education Requirement is partially met by the Program Requirements.



# Nursing: Practical Nursing (P.N.)

## Intermediate Technical Certificate

### Career and Technical Program

This program prepares students for entry-level employment as practical nurses in hospitals, home health care, convalescent homes, and related health service professions. An intermediate certificate is awarded upon successful completion of the program. Students who wish to continue to the R.N. level should consult with their advisor for those program requirements. This program has a selective admission process.

The curriculum includes basic and clinical foundations of nursing, medical and surgical nursing, maternal and infant care, nursing of children, psychiatric nursing, pharmacology, and geriatrics. The program is offered in cooperation with Kootenai Health, local extended care facilities, and physician offices.

Graduates are eligible to take the National Council Licensure Examination (NCLEX-PN). Students who pass the exam are qualified to practice as licensed practical nurses in Idaho and may apply for licensure in other states by endorsement.

For Admission Requirements and Admission Procedures, please refer to the program webpage.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CAOT-179	Medical Terminology	2
PHAR-150	Introduction to Pharmacology	3
ENGL-101	English Composition	3
MCTE-102	Computational Skills for Allied Health	3
PSYC-101	Introduction to Psychology	3
BIOL-175	Human Biology	4
	or BIOL-227 Anatomy and Physiology I & BIOL-228 Anatomy and Physiology II	(8)
		<b>Semester Total 18</b>

#### Second Semester

PN-106	Practical Nursing Theory I	6
PN-106L	Practical Nursing Laboratory I	<u>6</u>
		<b>Semester Total 12</b>

#### Third Semester

ATEC-110	Successful Job Search	1
PN-107	Practical Nursing Theory II	8
PN-107L	Practical Nursing Laboratory II	<u>6</u>
		<b>Semester Total 15</b>

#### Fourth Semester

PN-108	Practical Nursing Theory III	3
PN-108L	Practical Nursing Laboratory III	<u>5</u>
		<b>Semester Total 8</b>
		<b>Program Total 53</b>

# Nursing: Registered Nursing (R.N.)

## Associate of Science Degree

### Transfer Program

The faculty of the Associate's Degree Nursing program uphold the mission of North Idaho College in its commitment to student success, educational excellence, community engagement, and lifelong learning. The Associate's Degree Nursing program at North Idaho College commits to excellence in nursing education by developing distinguished graduate nurses who are prepared to meet the health care needs of the community and seek to advance the profession. The curriculum includes general education courses in the arts and sciences and nursing courses, which provide nursing theory in the classroom and clinical experiences in health care agencies.

The graduate competencies of the Associate's Degree Nursing program are derived from the Quality and Safety for Nurses (QSEN) competencies. The intent of these principles is to arm the graduate nurse with the knowledge, skills, and attitudes (KSAs) necessary to provide optimal patient care. Upon completion of the program, the graduate will have demonstrated the ability to:

1. Recognize the patient or designee as the source of control and full partner in providing compassionate and coordinated care based on respect for patient's preferences, values, and needs.
2. Function effectively within nursing and inter-professional teams, fostering open communication, mutual respect, and shared decision-making to achieve quality patient care.
3. Integrate best current evidence with clinical expertise and patient/family preferences and values for delivery of optimal health care.
4. Use data to monitor the outcomes of care processes and use improvement methods to design and test changes to continuously improve the quality and safety of health care systems.
5. Minimize risk of harm to patients and providers through both system effectiveness and individual performance.
6. Use information and technology to communicate, manage knowledge, mitigate error, and support decision-making.

Graduates are eligible to take the National Council Licensure Examination (NCLEX-RN). Passing the examination qualifies the individual to apply for licensure as a registered nurse in any state. The program prepares the graduate for employment in entry-level positions in a variety of health care settings and areas of nursing practice. The program is designed as a transfer degree and will satisfy core requirements at Idaho public colleges and universities which offer RN to BSN programs.

The Associate's Degree Nursing program is approved by the Idaho Board of Nursing and is accredited by the Accreditation Commission for Education in Nursing, Inc. Inquires can be made by contacting the above agencies at: Idaho Board of Nursing, P.O. Box 83702, Boise, ID 83720-0061, (208) 334-3110, [www2.state.id.us/ibn/ibnhome.htm](http://www2.state.id.us/ibn/ibnhome.htm), and/or Accreditation Commission for Education in Nursing, Inc., 3343 Peachtree Road N.E. Suite 850, Atlanta, GA, 30326 or [www.acenursing.org](http://www.acenursing.org).

The Associate's Degree Nursing program has a competitive-entry process requiring specific prerequisite courses. See below for details regarding specific requirements. It is highly recommended that potential applicants meet with an advisor as they begin planning their pre-nursing coursework. Licensed Practical Nurses (LPNs) are eligible to apply for advanced placement. LPNs must meet the same admission criteria as other program applicants. In order to be eligible for advanced placement into the ADN Program,

students will need to successfully complete the LPN summer transition course (NURS 196).

### Admission Procedures

**For application deadlines, please refer to the Registered Nursing program website.**

In addition to the regular college admissions requirements, students applying for the Registered Nursing program need to complete a Nursing program application, which consists of:

1. Application for admission to NIC (if not already complete). New and former students must complete the formal admissions process as listed for Degree Seeking (Matriculating) students.
2. Associate's Degree Nursing program application.
3. Official high school and college transcripts.
4. Results from the entrance exam (see application packet for information on scheduling the exam).
5. Applicants who have attended any other nursing program must submit a recommendation from an instructor or administrator of that program.

Application forms may be obtained from the Admissions Office and on the NIC website two months prior to the application deadline.

### Admission Requirements

1. Final high school (HS) transcript with graduation date posted or GED.
2. If HS program or GED is in progress, then completion of 12 or more college level credits is required. Final HS transcript or GED must be received prior to starting the Nursing Program.
3. A minimum cumulative GPA of 3.0 on degree requirements.
4. Meet the Associate's Degree Nursing Program Essential Abilities Policy 7.01.01
5. TEAS adjusted individual score  $\geq 58.6\%$
6. If degree requirements are not completed, must be eligible to enroll in ENGL-101 or higher.
7. If degree requirements are not completed, must be eligible to enroll in MCTE-102 or higher.
8. ENGL-101, GEM 3 MATH (any math course that meets the current AA or AS degree requirements), BIOL-227, PSYC-101, and COMM-101 must be completed with a C/2.0 or higher prior to starting the NURS courses.

### Additional Information

Enrollment in the Nursing program is limited. Because of the number of applicants, completion of all admission requirements does not ensure acceptance into the program. Candidates for admission are selected from the pool of qualified applicants using a point-based process. Students with the highest point total will be accepted until the designated enrollment limit is reached. An alternate list will be developed using the same process.

Specific information on the selection process and point system are available two months prior to the application deadline and can be obtained from the NIC Admissions Office, (208) 769-3311, or from the Nursing (R.N.) homepage at [www.nic.edu](http://www.nic.edu) and clicking on Instructional Programs.

1. The additional coursework required to meet the A.S. degree re-

# Nursing: Registered Nursing (R.N.) Continued

## Associate of Science Degree

- quirements that is not completed at the time of admission to the Nursing program, must be completed no later than the sequence identified in the nursing curriculum in order to meet prerequisites for nursing courses. All required courses must be completed by the end of the program.
- The Admissions Office will determine transferability of courses from other colleges.
  - The Nursing Department will determine if previous nursing credits will be acceptable for transfer.
  - Advanced placement is available for Licensed Practical Nurses. Applicants must meet the same criteria and deadlines as other program applicants. For further information, view the Nursing (RN) homepage by going to the college website at [www.nic.edu](http://www.nic.edu) and clicking on Instructional Programs or contact the NIC Division of Health Professions and Nursing at (208) 769-3329 for specific guidelines and further information.
  - A criminal background check will be required upon acceptance into the nursing program. Violations which appear on the criminal background check may result in denied access to clinical sites and therefore inability to complete the program.
  - Students with visible body art may be denied access to clinical sites, which could result in the inability to complete the program.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>1</sup>	0
GEM 7 - Institutionally Designated <sup>1</sup>	0

#### Program Requirements

Course No.	Title	Credits
BACT-250	General Microbiology	4
BIOL-227	Human Anatomy and Physiology I	4
BIOL-228	Human Anatomy and Physiology II	4
INTR-2500	Leadership in Interprofessional Healthcare	3
NURS-115	Wellness for Care Providers	1
NURS-201	Fundamentals of Nursing	2
NURS-210	Fundamentals of Nursing Lab	2
NURS-215	Physical Assessment with Lab	1
NURS-225	Pharmacology in Nursing Practice	1
NURS-235	Psychiatric Mental Health Nursing with Lab	1
NURS-240	Nursing Care of Child-Bearing Families with Lab	2
NURS-245	Community Health Nursing	1
NURS-250	Medical Surgical Nursing I	3
NURS-255	Medical Surgical Nursing Lab I	3
NURS-260	Medical Surgical Nursing II	4
NURS-265	Medical Surgical Nursing Lab II	4
NURS-270	Transition to Nursing Practice	1
NURS-275	Transition to Nursing Practice Lab	3
PSYC-101	Introduction to Psychology	3
SOC-101	Introduction to Sociology	3

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits</b>	<b>68</b>

#### Recommended Course

ENGL-114A	Writing Across the Curriculum: APA Research and Documentation	1
NURS-198	Nursing Practice Clinical Practicum	1

#### Notes:

<sup>1</sup> This General Education Requirement is met by the Program Requirements.

A grade of C/2.0 or better is required in each nursing course and general education course that is part of the nursing curriculum. General education courses must be completed with the required grade in the sequence listed to meet prerequisites and progress to the next nursing course.

For students who wish to continue their education in nursing, BSN completion programs are available through colleges in Idaho, Eastern Washington, and throughout the country.

# Office Specialist/Receptionist

## Intermediate Technical Certificate

### Career and Technical Program

The Office Specialist/Receptionist program provides coursework required for an Intermediate Technical Certificate that prepares students for entry-level career positions in today's offices. Students who complete this program earn an Intermediate Technical Certificate and will have the foundation to earn an advanced certificate. Students develop skills to enhance their opportunities for employment, including interpersonal skills, telephone skills, and customer relations skills. Students also become proficient using up-to-date computer applications, including word processing, spreadsheets, database, and presentation software.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
BLDR-120	Financial Business Applications	3
CAOT-115	Outlook	1
CAOT-120	Word Processing/Word I	1
CAOT-121	Word Processing/Word II	1
CAOT-122	Word Processing/Word III	1
CAOT-140	Database/Access I	1
CAOT-150	PowerPoint	1
CAOT-164	Computer Fundamentals for Tech Programs	1
CAOT-183	Business Editing and Proofreading	3
CAOT-204	Career Leadership	1
CSC-106	College Internet Skills	1
		<b>Semester Total 15</b>

#### Second Semester

CAOT-130	Spreadsheets/Excel I	1
CAOT-131	Spreadsheets/Excel II	1
CAOT-132	Spreadsheets/Excel III	1
CAOT-184	Records Systems Management	3
CAOT-205	Business Document Formatting/Transcription	2
CAOT-210	Office Procedures	3
CAOT-250	Office Skills Capstone	1
CAOT-220	Administrative Support Internship I	3
		<b>Semester Total 15</b>
		<b>Program Total 30</b>

# Office Technology

## Intermediate Technical Certificate

### Career and Technical Program

The Office Technology program allows students to design an Office Technology Intermediate Technical Certificate by completing courses from the Accounting, Business Administration, Computer Applications and Office Technology, and Paralegal programs. It is designed for students seeking entry-level employment or who want to upgrade their office technology skills as required for an office-related position. The certificate can be completed in two to four semesters with a minimum of 28 credits required.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

Course No.	Title	Credits
COMM-101	Intro to Speech Communication	3
or COMM-233	Interpersonal Communication	(3)
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
MCTE-101	Technical Mathematics (or higher)	3-5

**Choose one course from the following:** 3-4

ACCT-248	Accounting Internship	
CAOT-191	Medical Receptionist Internship I	
CAOT-220	Administrative Support Internship I	
CAOT-222	Legal Administrative Assistant Internship I	
CAOT-224	Medical Administrative Assistant Internship	
CAOT-225	Medical Billing Specialist Internship I	
CAOT-227	Medical Transcriptionist Internship I	
PLEG-290	Paralegal Internship I	

**Choose 18 credits from the following subjects:** 18  
(Excluding internship courses listed above and CAOT-100, 101, 102, 103, 162)

ACCT	Accounting	
BUSA	Business Administration	
CAOT	Computer Applications and Office Technology	
PLEG	Paralegal	

**Total Credits (minimum) 28**

# Outdoor Recreation Leadership

## Intermediate Technical Certificate

### Career and Technical Program

This program gives students the necessary skills and certificates needed to obtain employment in the outdoor recreation field. The coursework in this curriculum is primarily field based and leadership development centered. Graduates will have confidence to excel in this growing industry.

This is a limited-enrollment program. See page 19 of the catalog for special admission procedures or contact a PTE advisor for more information.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
RRM-110	Wilderness First Responder	3
RRM-234	Team Dynamics	3
RRM-237E	Outdoor Programming and Leadership	3
RRM-237F	Outdoor Navigation	3
MCTE-101	Technical Mathematics (or higher)	3-5
		<b>Semester Total 15-17</b>

#### Second Semester

ECTE-100	Fundamentals for Writing (or higher)	3
RRM-125	Wilderness Ethics and Interpretation	3
RRM-237B	Wilderness Survival	3
RRM-237C	Whitewater Guiding	3
RRM-237H	Outdoor Cooking	3
		<b>Semester Total 15</b>
		<b>Program Total 30-32</b>

# Outdoor Recreation Leadership

## Advanced Technical Certificate

### Career and Technical Program

This program gives students the necessary skills and certificates needed to obtain employment in the outdoor recreation field. The coursework in this curriculum is primarily field based and leadership development centered. Graduates will have confidence to excel in this growing industry.

This is a limited-enrollment program. See page 19 of the catalog for special admission procedures or contact a PTE advisor for more information.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credit Hrs
RRM-110	Wilderness First Responder	3
RRM-234	Team Dynamics	3
RRM-237E	Outdoor Programming and Leadership	3
RRM-237F	Outdoor Navigation	3
MCTE-101	Technical Mathematics (or higher)	<u>3-5</u>
		<b>Semester Total 15-17</b>

#### Second Semester

ECTE-100	Fundamentals for Writing (or higher)	3
RRM-125	Wilderness Ethics and Interpretation	3
RRM-237B	Wilderness Survival	3
RRM-237C	Whitewater Guiding	3
RRM-237H	Outdoor Cooking	<u>3</u>
		<b>Semester Total 15</b>

#### Third Semester

RRM-140	Leadership Principles	3
RRM-225	Event Planning and Management	3
RRM-237A	Wilderness Backpacking	3
RRM-237J	Swift Water Rescue	3
RRM-250	Risk Management in the Resort Industry	<u>3</u>
		<b>Semester Total 15</b>

#### Fourth Semester

CAOT-130	Spreadsheets/Excel 1	1
PE-110W	Introduction to Mountain Biking	1
RRM-230	Leisure and Recreation Programming	3
RRM-237D	Mountaineering	3
RRM-237G	Avalanche Level 1	1
RRM-290	Resort/Recreation Management Internship	<u>3</u>
		<b>Semester Total 12</b>
		<b>Program Total 57-59</b>

# Outdoor Recreation Leadership

Associate of Applied Science Degree

## Career and Technical Program

This program gives students the necessary skills and certificates needed to obtain employment in the outdoor recreation field. The coursework in this curriculum is primarily field based and leadership development centered. Graduates will have confidence to excel in this growing industry.

This is a limited-enrollment program. See Page 19 of the catalog for special admission procedures or contact a Career and Technical Education advisor for more information.

## Program Requirements

### First Semester

Course No.	Title	Credit Hrs
RRM-110	Wilderness First Responder	3
RRM-234	Team Dynamics	3
RRM-237E	Outdoor Programming and Leadership	3
RRM-237F	Outdoor Navigation	3
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup> 3-5	3
		<b>Semester Total 15-17</b>

### Second Semester

COMM-101	Introduction to Speech Communication <sup>2</sup>	3
ENGL-101	English Composition <sup>2</sup>	3
RRM-125	Wilderness Ethics and Interpretation	3
RRM-237C	Whitewater Guiding	3
RRM-237H	Outdoor Cooking	3
		<b>Semester Total 15</b>

### Third Semester

RRM-140	Leadership Principles	3
RRM-225	Event Planning and Management	3
RRM-237J	Swift Water Rescue	3
RRM-250	Risk Management in the Resort Industry	3
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
		<b>Semester Total 15</b>

### Fourth Semester

CAOT-130	Spreadsheets/Excel 1	1
PE-110W	Introduction to Mountain Biking	1
RRM-230	Leisure and Recreation Programming	3
RRM-237D	Mountaineering	3
RRM-237G	Avalanche Level 1	1
RRM-290	Resort/Recreation Management Internship	3
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 15</b>
		<b>Program Total 60-62</b>

### NOTES:

- <sup>1</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>2</sup> Satisfies A.A.S. degree requirement.
- <sup>3</sup> Select from A.A.S. degree general education requirements listed on page 50.



# Paralegal

## Associate of Applied Science Degree

### Career and Technical Program

This program provides coursework required for an Associate of Applied Science Degree that leads to positions in legal environments. A paralegal, under the supervision of an attorney, applies knowledge of law and legal procedures in rendering direct assistance to attorneys, clients, and courts. They may conduct initial client interviews and follow up on investigation of factual information. Paralegals design, develop and modify procedures, techniques, services, and processes; prepare and interpret legal documents; and detail procedures for practicing in certain fields of law. Paralegals research, select, assess, compile, and use information from the law library and other references, and analyze and handle procedures and problems that involve independent decisions.

Employment and internships in the legal field will often require a background check. Violations which appear on the applicant's criminal background check may result in denied approval for required internships and the inability to complete the program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
CAOT-115	Outlook	1
CAOT-120	Word Processing/Word I	1
CAOT-121	Word Processing/Word II	1
CAOT-183	Business Editing and Proofreading	3
ENGL-101	English Composition <sup>1</sup>	3
PLEG-110	Introduction to Law	2
PLEG-115	Legal Terminology	1
PLEG-210	Legal Research and Writing I	4
		<b>Semester Total 16</b>

#### Second Semester

CAOT-130	Spreadsheets/Excel I	1
CAOT-140	Database/Access I	1
CAOT-210	Office Procedures	3
PLEG-105	Civil Procedures and Litigation	3
PLEG-220	Legal Research and Writing II	4
PLEG-250	Family Law	3
		<b>Semester Total 15</b>

#### Third Semester

CAOT-184	Records Systems Management	3
PLEG-201	Legal Ethics	1
PLEG-230	Evidence	3
PLEG-260	Criminal Law	3
_____	A.A.S. Mathematical Ways of Knowing <sup>2</sup>	3-5
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 16-18</b>

#### Fourth Semester

CAOT-205	Machine Transcription and Document Formatting	2
CAOT-250	Office Skills Capstone	1
COMM-101	Introduction to Speech Communication <sup>1</sup>	3
PLEG-280	Torts and Contracts	3
PLEG-290	Paralegal Internship I	3
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
		<b>Semester Total 15</b>
		<b>Program Total 62-64</b>

#### NOTES:

- <sup>1</sup> Satisfies A.A.S. degree requirement.
- <sup>2</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>3</sup> Select from A.A.S. degree general education requirements listed on page 50. The American Bar Association Requires 18 credits of General Education.

# Pharmacy Technology

## Intermediate Technical Certificate

### Career and Technical Program

The Pharmacy Technology program prepares graduates for positions working under the supervision of a licensed and registered pharmacist in retail and institutional pharmacy practice settings. Students completing the program will have a basic understanding of anatomy, physiology, medical terminology, pharmacy law, and the therapeutic classification and use of the top-200 prescription drugs. Students will develop skills in pharmaceutical preparation, maintaining patient profiles or records, sterile products preparation, performing stock procedures, communication and presentation, and computer use to enter, store, and recall patient information.

The Pharmacy Technology program is a selective admissions program. Approximately 12-16 students are admitted to the program each Fall Semester. Course requirements prior to the technical pharmacy courses are open to all students who meet specific course prerequisites. The Intermediate Technical Certificate can be obtained in an 11-month course of study following completion of the required prerequisites.

This is a competitive-entry program. For program specific requirements, please refer to the program website.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
BIOL-100	Fundamentals of Biology	4
or BIOL-175	Human Biology	(4)
MCTE-102	Computational Skills for Allied Health	3
		<b>Semester Total 7</b>

#### Second Semester

ALTH-105	Infection Prevention	2
ALTH-110	Over the Counter and Herbal Medication	2
CAOT-179	Medical Terminology	2
ENGL-101	English Composition	3
PHAR-110	Pharmacy Law and Ethics	2
PHAR-150	Introduction to Pharmacology	3
PHAR-171	Applied Pharmacy Technology I	3
PHAR-171L	Applied Pharmacy Technology I Lab	0
		<b>Semester Total 17</b>

#### Third Semester

A TEC-110	Successful Job Search	1
COMM-233	Interpersonal Communication	3
PHAR-152	Advanced Pharmacology	3
PHAR-161	Extemporaneous Compounding and IV Certification	3
PHAR-161L	Extemporaneous Compounding and IV Certification Lab	0
PHAR-172	Applied Pharmacy Technology II	2
PHAR-172L	Applied Pharmacy Technology Lab II	0
PHAR-182	Pharmacy Technology Practicum and Seminar I <sup>1</sup>	5
		<b>Semester Total 17</b>

#### Fourth Semester

PHAR-175	National Certification Exam Prep	1
PHAR-187	Pharmacy Technology Practicum and Seminar II <sup>1</sup>	5
		<b>Semester Total 6</b>
		<b>Total Credits 47</b>

#### Notes:

- <sup>1</sup> One-half of students will be scheduled in retail pharmacy experience and one-half will be scheduled in hospital pharmacy experience. Both must be completed to obtain a certificate.

# Pharmaceutical Manufacturing

## Associate of Science Degree

### Transfer Program

The Pharmaceutical Manufacturing program is designed for students who desire careers in the research and production of pharmaceutical and medicine products. These products are used to treat disease and for the betterment of life. The production of these products requires a fundamental understanding of biology, chemistry, and manufacturing processes.

Upon completion of this program students shall have demonstrated the ability to:

- Be familiar with the language of biotechnology production.
- Be able to articulate, read and follow a standard operating procedure.
- Be able to understand and apply the regulatory requirements of current good manufacturing practices.
- Understand the basic biology and chemistry behind the manufacturing processes.
- Demonstrate the ability to perform laboratory skills and work in team settings.

Completion of the following courses results in an Associate of Science Degree with an area of emphasis in pharmaceutical manufacturing. It will ready the students for entry- to mid-level positions in a biotechnology environment. The required coursework also supports baccalaureate degree requirements in biology, chemistry, and other scientific disciplines. When advanced degrees are desired, course selection should be tailored to match requirements defined by intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>2</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
BACT-250	General Microbiology	4
BIOL-115	Introduction to Life Sciences	4
BMGT-256	Problem Solving Through Team Dynamics	3
or BUSA-211	Principles of Management	(3)
CHEM-111	Principles of General College Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
HCIT-210	Health IT Customer Services	3
PHIL-103	Ethics	3
PHMF-100	Pharmaceutical Manufacturing Principles	3
PHMF-105	Pharmaceutical Quality Systems and Regulations	2

<b>Complete one course from the following:</b>	3-4
MATH-143	College Algebra
MATH-160	Survey of Calculus
MATH-170	Analytic Geometry and Calculus I

<b>Complete one of the following series:</b>	7-8
BTNY-203	General Botany
CHEM-275	Carbon Compounds
or	
CHEM-277	Organic Chemistry I
CHEM-278	Organic Chemistry I Lab
CHEM-287	Organic Chemistry II
CHEM-288	Organic Chemistry II Lab
or	
PHYS-111	General Physics I
PHYS-112	General Physics II

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum)</b>	<b>64</b>

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is partially met by the Program Requirements.

#### Recommended Courses

BLDR-144	Principles of Quality	2
CHEM-253	Quantitative Analysis	5
ENGL-202	Technical Writing	3

# Philosophy

## Associate of Arts Degree

### Transfer Program

The Philosophy program provides excellent preparation for most professions or fields of graduate study, especially business, law, medicine, public administration, and education. Completion of the following courses results in an associate's degree and meets the general core requirements at all Idaho public universities.

Completion of the following courses normally fulfills the first half of bachelor's degree requirements in Philosophy. Course selections should be tailored to match requirements of the intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
PHIL-101	Introduction to Philosophy	3
PHIL-103	Ethics	3
PHIL-201	Logic and Critical Thinking	3
PHIL-111	World Religions	3

#### Elective Requirements

Courses 100-level or higher	13-15
<b>Total Credits (minimum) 60</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is partially met by the Program Requirements.

# Photography

## Associate of Arts Degree

### Transfer Program

The photographic image plays a vital role in contemporary society. The Photography program focuses on the constantly evolving knowledge, skills, and abilities needed to create visual images that communicate and stand on their own as an art form. The course of study offered at NIC gives students the opportunity to explore their role as photographers capturing images, creating art, and communicating their vision.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing <sup>2</sup>	0
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
ART-121	2D/Design Foundations	3
COMJ-140	Mass Media in a Free Society	3
PHTO-183	Introduction to Digital Photography	3
PHTO-288	Intermediate Digital Photography	3
PHTO-289	Photojournalism	3
PSYC-101	Introduction to Psychology	3
THEA-101	Introduction to Theatre	3

#### Elective Requirements

Courses 100-level or higher	<u>10-12</u>
<b>Total Credits (minimum) 60</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is partially met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is met by the Program Requirements.

# Physical Education

## Associate of Science Degree

### Transfer Program

NIC's Physical Education Department provides students with the competence, confidence, and motivation necessary to ensure health, fitness, and life-long learning. This program is for students interested in pursuing careers in teaching, coaching, athletic training, recreation, fitness, and health promotion fields. Areas of instruction include human movement studies, motivation studies, rules and practice of specific sports, exercise/fitness principles and techniques, basic athletic injury prevention/treatment, and organizing/leading fitness and recreation programs. The suggested coursework normally fulfills the first half of baccalaureate degree requirements for physical education.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	4
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated <sup>1</sup>	3

#### Program Requirements

Course No.	Title	Credits
<b>Choose 16 credits from the following:</b>		
PE-160	Foundations of Physical Education	3
PE-220	Sports Ethics	2
PE-221	Fitness Activities and Concepts	2
PE-222	Wellness Lifestyles	3
PE-223	Exercise Physiology	3
PE-225	Sport Psychology	3
PE-227	Legal Aspects of Sport and Recreation	3
PE-288	First Aid	3

<b>Choose one course from the following:</b>		
BIOL-207	Concepts in Human Nutrition	3
PE-224	Nutrition for Health, Fitness, & Exercise	

<b>Choose one course from the following:</b>		
BIOL-175	Human Biology	4
BIOL-227	Human Anatomy and Physiology I with Cadaver	

<b>Elective Requirements</b>		
Courses 100-level or higher <sup>2</sup>		4-6
<b>Total Credits (minimum)</b>		<b>60</b>

#### Notes:

- <sup>1</sup> This General Education Requirement is partially met by the Program Requirements.
- <sup>2</sup> Recommend choosing courses from the Areas of Emphasis according to transfer institution requirements.

### Areas of Emphasis

#### Athletic Training/Exercise Science

BIOL-228	Human Anatomy and Physiology II with Cadaver	4
CAOT-179	Medical Terminology	2
CHEM-101	Introduction to Essentials of General Chemistry I	4
CHEM-111	Principles of General Chemistry I	5
PE-248	Care and Prevention of Athletic Injuries	3
PE-250	Clinical Athletic Training	3
PE-251	ACE Personal Trainer Certification	2
PE-253	ACE Group Fitness Instructor Certification	2

#### Coaching

PE-241B	Coaching Methods: Volleyball	2
PE-241C	Coaching Methods: Soccer	2
PE-241D	Coaching Methods: Softball/Baseball	2
PE-241E	Coaching Methods: Basketball	2
PE-241F	Coaching Methods: Wrestling	2
PE-242	Sports Officiating	2
PE-248	Care and Prevention of Athletic Injuries	3
PE-251	ACE Personal Trainer Certification	2
PE-253	ACE Group Fitness Instructor Certification	2
SOC-155	Drug Abuse: Fact, Fiction, and Future	3

#### K-12 Education

EDUC-201	Introduction to Teaching	3
PE-110/111	Individual and Team Sport Courses	1-7
PE-243	Play and Game Theory	2
PE-251	ACE Personal Trainer Certification	2
PE-253	ACE Group Fitness Instructor Certification	2

#### Outdoor Recreation

PE-237A	Wilderness Backpacking	3
PE-237B	Wilderness Survival	3
PE-237C	Whitewater Guide	3
PE-237D	Mountaineering	3
PE-237E	Outdoor Programming and Leadership	3
PE-237F	Outdoor Navigation	3
PE-237H	Introduction to Outdoor Cooking	3
PE-237J	Swift Water Rescue	3

# Physical Therapist Assistant

## Associate of Applied Science Degree

### Career and Technical Program

The Physical Therapist Assistant Consortium Program prepares students for employment as physical therapist assistants (PTA). The PTA functions through the direction of a physical therapist (PT) to implement the PT's plan of care. The ultimate goal of physical therapy is to aid patients and clients in their return to maximal function. PTA students are instructed in thinking processes and skills such as therapeutic exercise, orthopedic and neurological interventions, therapeutic modalities, and the art of patient care. In addition to patient treatment courses, students study the basic sciences of anatomy, physiology, clinical pathology, and kinesiology. Clinical education experiences are integrated throughout the curriculum and offer students the opportunity to practice the techniques learned and practiced each semester. The program is designed to be completed in two years.

The Idaho Consortium for Physical Therapist Assistant Education at the College of Southern Idaho, the College of Western Idaho, Lewis-Clark State College, and North Idaho College is accredited by the

Commission on Accreditation in  
Physical Therapy Education (CAPTE)  
1111 North Fairfax Street, Alexandria, Virginia 22314

Phone: (703) 706-3245  
Email: [accreditation@apta.org](mailto:accreditation@apta.org)  
Website: <http://www.capteonline.org>

### Admission Requirements

#### Competitive Entry

1. High school diploma or GED.
2. Application to the Physical Therapist Assistant program.
3. Minimum grades of C or 2.00 must be earned in each of the prerequisite courses required for the program.

#### Prerequisites:

- BIOL-227
- CAOT-179
- ENGL-101
- MATH-123\*

\* Mathematics requirement includes any math course that is MATH-123 or higher and fulfills the A.A.S. degree requirement as list in the NIC catalog.

4. All lab science courses which were completed more than seven years prior to application must be repeated.
5. Documentation showing a minimum of 16 hours of observation in a physical therapy clinical setting.
6. A criminal background check will be required upon acceptance. Violations may result in denied access to clinical sites and therefore inability to complete the program. For questions regarding specific violations, please contact program director.

### Admission Procedures

For program specific requirements please refer to the Physical Therapist Assistant program website.

### Program Requirements

#### First Semester

Course No.	Title	Credits
BIOL-227	Anatomy and Physiology I <sup>1</sup>	4
CAOT-179	Medical Terminology	2
ENGL-101	English Composition <sup>1</sup>	3
MATH-123	Contemporary Math <sup>1</sup>	3
PSYC-101	Introduction to Psychology <sup>1</sup>	3
<b>Semester Total</b>		<b>15</b>

#### Second Semester

BIOL-228	Anatomy and Physiology II	4
PTAE-101	Physical Therapy in Health Care	2
PTAE-107	Kinesiology	4
PTAE-110	Principles and Procedures in Physical Therapy	3
PTAE-112	Clinical Pathology 1	1
<b>Semester Total</b>		<b>14</b>

#### Third Semester

PTAE-202	Therapeutic Modalities	4
PTAE-203	Therapeutic Exercise	3
PTAE-205	Orthopedic Rehabilitation	2
PTAE-211	Data Collection	3
PTAE-212	Clinical Pathology 2	2
<b>Semester Total</b>		<b>14</b>

#### Fourth Semester

COMM-101	Introduction to Communication <sup>1</sup>	3
PTAE-215	Special Populations	3
PTAE-217	Neurological Rehabilitation	4
PTAE-220	Seminar	3
PTAE-245	Clinical Affiliation 1	2
<b>Semester Total</b>		<b>15</b>

#### Fifth Semester

PTAE-250	Clinical Affiliation 2	6
PTAE-255	Clinical Affiliation 3	6
<b>Semester Total</b>		<b>12</b>
<b>Program Total</b>		<b>70</b>

#### NOTES:

- <sup>1</sup> Satisfies A.A.S. degree requirement.

# Physics/Astronomy

## Associate of Science Degree

### Transfer Program

Physics is the science that deals with matter and energy and their interactions in selected fields such as mechanics, acoustics, and electricity. A strong background in science and mathematics is important preparation for a college physics program.

Completion of the following courses results in an associate's degree with an area of emphasis in Physics. The required coursework normally fulfills the first half of baccalaureate degree requirements in Physics. Course selection should be tailored to match requirements defined by intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
CHEM-111	Principles of General College Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
MATH-170	Analytic Geometry and Calculus I	4
MATH-175	Analytic Geometry and Calculus II	4
MATH-275	Analytic Geometry and Calculus III	4
MATH-335	Linear Algebra	3
MATH-370	Introduction to Ordinary Differential Equations	3
PHYS-211	Engineering Physics I	5
PHYS-212	Engineering Physics II	5

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum) 63</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.



# Political Science and Pre-Law

## Associate of Science Degree

### Transfer Program

The Associate of Science in Political Science and Pre-Law provides the equivalence of the first two years of study in for a Bachelor of Science in Political Science. Students are introduced to many of the various subfields of political science and the scope of the discipline. The Associate of Science program also serves as a foundation for further professional or academic study in pre-law, business, and secondary teaching with an emphasis in social studies, public administration, international studies, and other related social sciences. Undergraduate degrees in Political Science are often the path chosen by many seeking entrance into law school, though it should be noted that other disciplines can be equally successful. Please contact the Political Science Department for a list of potential careers in political science. Students are strongly encouraged to check with their undergraduate transfer institution for specific degree and coursework requirements. Completion of an Associate of Science Degree meets the general core requirements at all Idaho public universities.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>2</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

POLS-101	American National Government	3
POLS-237	International Politics and Problems	3

**Choose one additional Political Science courses other than POLS-298.** 3

#### Elective Requirements

Courses 100-level or higher 16-18  
**Total Credits (minimum) 60**

#### Notes:

- <sup>1</sup> Specific math course should be tailored to the intended transfer institution.
- <sup>2</sup> This General Education Requirement is partially met by the Program Requirements.

# Pre-Medical Related Fields

## Associate of Science Degree

### Transfer Program

The pre-medical field has a wide variety of options, including Pre-Dental Hygiene, Pre-Medical/Pre-Dental Studies, Pre-Optometry, Pre-Pharmacy, Radiologic Technology, Respiratory Therapy, Radiographic Science, Speech Pathology and Audiology, and Sports Medicine. Most professional school admission requirements will be satisfied with a baccalaureate degree in biology or chemistry with substantial coursework in other disciplines. Professional schools are extremely competitive. It is important to contact an advisor at your transfer institution.

Completion of the following courses results in an associate's degree with an area of emphasis in Pre-Medical Related Fields. Course selection should be tailored to match requirements of the transfer institution.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

BACT-250	General Microbiology	4
BIOL-115	Introduction to Life Sciences	4
BIOL-227	Human Anatomy and Physiology I with Cadaver	4
BIOL-228	Human Anatomy and Physiology II with Cadaver	4
CHEM-111	Principles of General College Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
MATH-170	Analytic Geometry and Calculus I	4
PHYS-111	General Physics I	4
PHYS-112	General Physics II	4

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum) 63</b>	

#### Notes:

<sup>1</sup> This General Education Requirement is met by the Program Requirements.

# Pre-Microbiology/Medical Technology

## Associate of Science Degree

### Transfer Program

The Pre-Microbiology/Medical Technology program is designed for students who desire professional careers in applications of control and diagnosis of diseases, agriculture, food technology, genetic engineering, environmental/pollution control, clinical lab work in hospitals, public health and research labs, and in industrial and pharmaceutical laboratories.

Completion of the following coursework results in an associate's degree with an area of emphasis in Pre-Microbiology/Medical Technology. The required coursework normally fulfills the first half of baccalaureate degree requirements in Microbiology/Medical Technology. Course selection should be tailored to match requirements of intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

BACT-250	General Microbiology	4
BIOL-115	Introduction to Life Sciences	4
CHEM-111	Principles of General College Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
CHEM-277	Organic Chemistry I	3
CHEM-278	Organic Chemistry I Lab	1
CHEM-287	Organic Chemistry II	3
CHEM-288	Organic Chemistry II Lab	1
MATH-170	Analytic Geometry and Calculus I	4
PHYS-111	General Physics I	4
PHYS-112	General Physics II	4

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum) 63</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.

# Pre-Nutrition

## Associate of Science Degree

### Transfer Program

This program is for students who love science, think critically, and want to help others live healthier lives. The required coursework is designed specifically for students who plan on transferring to the University of Idaho - Coeur d'Alene to complete a bachelor's degree in Food and Nutrition.

Completion of the following courses results in an Associate of Science Degree with an area of emphasis in Pre-Nutrition. Course selection should be tailored to match requirements defined by intended transfer institution.

### Program Requirements

#### General Education Requirements (see pages 52-53)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>1</sup>	0
GEM 7 - Institutionally Designated	4

#### Program Requirements

BACT-250	General Microbiology	4
BIOL-170	Introductory Foods	3
BIOL-170L	Introductory Foods Lab	1
BIOL-207	Concepts in Human Nutrition	3
BIOL-227	Human Anatomy and Physiology I with Cadaver	4
BIOL-228	Human Anatomy and Physiology II with Cadaver	4
CHEM-101	Introduction to Essentials of General Chemistry I	4
CHEM-275	Carbon Compounds	3
MATH-143	College Algebra	3
MATH-253	Principles of Applied Statistics	3
PSYC-101	Introduction to Psychology	3
PSYC-205	Developmental Psychology	3
SOC-101	Introduction to Sociology	3

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum)</b>	<b>60</b>

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.

# Pre-Physical Therapy

## Associate of Science Degree

### Transfer Program

This program is designed for students planning to transfer to a major suitable for entry into a physical therapy program. Physical therapy programs are very competitive and typically require an overall GPA of 2.75 or better and a 3.00 GPA in all prerequisite work (i.e., biology, zoology, chemistry, and physics). In addition, 75-80 hours (minimum) of work/observation under the direction of a licensed physical therapist are required for entry into physical therapy programs (may vary with transfer institution).

Completion of the following courses results in an associate's degree with an area of emphasis in Pre-Physical Therapy. The required coursework normally fulfills the prerequisite requirements for most physical therapy programs. Course selection should be tailored to match requirements defined by intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>1</sup>	0
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
BIOL-227	Human Anatomy and Physiology I with Cadaver	4
BIOL-228	Human Anatomy and Physiology II with Cadaver	4
CHEM-111	Principles of General College Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
MATH-253	Principles of Applied Statistics	3
PHYS-111	General Physics I	4
PHYS-112	General Physics II	4
PSYC-101	Introduction to Psychology	3
SOC-101	Introduction to Sociology	3

#### Elective Requirements

Courses 100-level or higher	6
<b>Total Credits (minimum) 60</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.

# Pre-Veterinary Medicine

## Associate of Science Degree

### Transfer Program

The states of Idaho and Washington have an agreement which guarantees a certain number of places in the Washington State University College of Veterinary Medicine to qualified Idaho residents. Normally, students must maintain an overall undergraduate GPA of at least 3.50 in their studies prior to admission to the program. Candidates with greater depth and breadth of academic background are given preference by WSU.

The Graduate Record Examination (GRE) scores must be received by October 1 of the year of application. While students may enter the program following completion of an associate's degree program, acceptance is normally not gained until a baccalaureate program is completed.

Completion of the following courses results in an associate's degree with an area of emphasis in Pre-Veterinary Medicine. The required coursework normally fulfills the first half of baccalaureate degree requirements in Pre-Veterinary Medicine. Course selection should be tailored to match requirements defined by intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing <sup>1</sup>	0
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
BIOL-115	Introduction to Life Sciences	4
CHEM-111	Principles of General College Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
CHEM-277	Organic Chemistry I	3
CHEM-278	Organic Chemistry I Lab	1
PHYS-111	General Physics I	4
PHYS-112	General Physics II	4
ZOOL-202	General Zoology	4

#### Choose one course from the following:

MATH-160	Survey of Calculus	4
MATH-170	Analytic Geometry and Calculus I	

#### Elective Requirements

Courses 100-level or higher	<u>1</u>
<b>Total Credits (minimum) 60</b>	

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.

# Psychology

## Associate of Science Degree

### Transfer Program

A baccalaureate degree with a major in psychology provides a solid foundation for many careers that require knowledge of human behavior in areas such as business, industry, government, or the helping professions. Completion of a graduate degree (master's or doctorate) is generally necessary, however, for careers specific to psychology. Therefore, students seriously considering such a career option should maintain a grade point average of 3.00 or higher.

Completion of the following courses normally fulfills the first half of bachelor's degree requirements in Psychology. Course selections should be tailored to match requirements of the intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>2</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
MATH-253	Principles of Applied Statistics	3
PSYC-101	Introduction to Psychology	3
PSYC-218	Introduction to Research in the Behavioral Sciences	4

#### Choose one course from the following: 3-4

MATH-130	Finite Math
MATH-143	College Algebra

#### Choose two courses from the following: 6

PSYC-205	Developmental Psychology
PSYC-210	Theories of Personality
PSYC-211	Abnormal Psychology

#### Elective Requirements

Courses 100-level or higher 10-11

**Total Credits (minimum) 60**

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is partially met by the Program Requirements.

#### Recommended Courses

BIOL-175	Human Biology	4
CHEM-100	Concepts of Chemistry I	4
or CHEM-101	Introduction to Essentials of General Chemistry I	(4)
INTR-250J	Psychology of Marketing	3
PHIL-101	Introduction to Philosophy	3
or PHIL-103	Ethics	(3)
COMM-223	Interpersonal Communication	3
COMM-220	Intercultural Communication	3

# Public Relations

## Associate of Arts Degree

### Transfer Program

This program prepares students for careers in public relations or communication. Public relations is a strategic communication process that builds mutually beneficial relationships between organizations and their publics. The degree focus is on knowledge and skills essential in those areas. Courses within the degree emphasis focus on knowledge and skills essential to succeed in public relations, particularly strong writing skills. Completion of the following courses results in an associate's degree and meets the general core requirements at all Idaho public universities. The suggested coursework normally fulfills the first half of baccalaureate degree requirements in Public Relations. Course selection should be tailored to match requirements defined by intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	0
GEM 6 - Social and Behavioral Ways of Knowing <sup>1</sup>	0
GEM 7 - Institutionally Designated	4

#### Program Requirements

BMKT-241	Fundamentals of Promotion and Advertising	3
COMJ-100	The Sentinel	1
COMJ-121	Introduction to Media Writing	3
COMJ-140	Mass Media in a Free Society	3
COMJ-222	Modern Reporting	3
COMM-220	Intercultural Communication	3
COMM-233	Interpersonal Communication	3
COMM-252	Introduction to Public Relations	3
PHTO-183	Introduction to Digital Photography	3

<b>Choose one course from the following:</b>		3
PHIL-101	Introduction to Philosophy	
PHIL-103	Ethics	

#### Elective Requirements

Courses 100-level or higher	6-8
<b>Total Credits (minimum) 60</b>	

<sup>1</sup> This General Education Requirement is met by the Program Requirements.

#### Recommended Course

BUSA-221	Principles of Marketing	3
PHTO-289	Photojournalism	3



# Radiography Technology

## Associate of Applied Science Degree

### Career and Technical Program

The Radiography Technology program prepares students to become a radiography technologist and member of a health care team. The program integrates knowledge from the biological sciences, social sciences, and math with the theory and practice of radiography technology to prepare students as entry-level technologists. Upon successful completion of this program students will graduate with an Associate of Applied Science Degree and be eligible to become certified by taking the registry examination of the American Registry of Radiologic Technologists (ARRT). The Radiography Technology Associate of Applied Science Degree program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Inquiries can be made by contacting JRCERT at 20 North Wacker Drive, Suite 2850, Chicago, IL 60606-3182 or (312) 704-5300 or mail@jrcert.org.

Contact the Health Professions Division at (208) 769-3373 for further information.

### Admission Requirements

#### Competitive Entry

1. High school diploma or GED.
2. Application to the Radiography Technology program.
3. Minimum grades of C or 2.00 must be earned in each of the prerequisite courses required for the program.

#### Prerequisites:

- BIOL-227
- BIOL-228
- CAOT-179
- MATH-025\*

\* Completion of MATH-025 or competency may be demonstrated by ACT, SAT, or COMPASS score taken in the two years prior to the program application deadline indicating placement above MATH-025 or completion of MATH-025 or MATH-108 or math class meeting the A.A.S. degree requirement as listed in the NIC catalog.

4. Transfer Students Prerequisite Courses: Transcripts for all prerequisite courses not completed at NIC must be sent to the NIC Admissions Office. The NIC Admissions Office will determine if previous college prerequisites will be acceptable for transfer.
5. All lab science courses which were completed more than seven years prior to application must be repeated.
6. Minimum cumulative grade point average of 2.50 calculated on all courses which meet the curriculum requirements.
7. A criminal background check will be required upon acceptance. Violations may result in denied access to clinical sites and therefore inability to complete the program. For questions regarding specific violations, please contact program director.

### Admission Procedures

For program specific requirements please refer to the Radiography Technology program website.

### Program Requirements

#### First Semester

Course No.	Title	Credits
MATH-143	College Algebra <sup>1</sup>	3
RADT-101	Introduction to Radiography	2
RADT-102	Patient Care in Radiography	3
RADT-104A	Radiographic Images I	1
RADT-106	Radiographic Procedures I	3
RADT-110	Law and Ethics for Radiography	1
RADT-180	Clinical Education I	3
		<b>Semester Total 16</b>

#### Second Semester

ENGL-101	English Composition	3
RADT-104B	Radiographic Images I	1
RADT-105	Radiation Protection	2
RADT-109	Radiographic Procedures II	3
RADT-182	Clinical Education II	6
		<b>Semester Total 15</b>

#### Third Semester

RADT-192	Clinical Education III	3
RADT-202A	Radiographic Images II	1
RADT-204	Radiographic Procedures III	2
		<b>Semester Total 6</b>

#### Fourth Semester

COMM-101	Introduction to Speech Communication	3
RADT-107	Radiography Physics	3
RADT-202B	Radiographic Images II	1
RADT-206	Radiographic Procedures IV	2
RADT-292	Clinical Education IV	8
		<b>Semester Total 17</b>

#### Fifth Semester

PSYC-101	Introduction to Psychology	3
or SOC-101	Introduction to Sociology	(3)
RADT-201	Pharmacology and Contrast Procedures in Radiography	2
RADT-298	Clinical Education V	8
		<b>Semester Total 13</b>
		<b>Program Total 67</b>

### Recommended Courses

RADT-291	Clinical Education Option	1
RADT-297	Senior Radiography Review	1

#### Notes:

- <sup>1</sup> An approved higher A.A.S. math requirement may be substituted.

# Social Work

## Associate of Arts Degree

### Transfer Program

This program is for students planning to transfer to a bachelor's degree program in social work (BSW). Career opportunities in social work include social services at federal, state, and local levels; health care social work in nursing homes, hospitals, and outpatient care facilities; mental health facilities; children and youth services; aging services casework; rehabilitation counseling; juvenile detention; family services; pre-adoption investigation; drug and alcohol counseling; group home casework and counseling; and employee assistance counseling. Completion of the following courses results in an associate's degree and meets the general core requirements at Idaho public universities. The suggested coursework normally fulfills the first half of baccalaureate degree requirements in social work. Course selection should be tailored to match requirements defined by intended transfer institutions.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>1</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
PSYC-101	Introduction to Psychology	3
SOWK-240	Introduction to Social Work	3
SOWK-241	Social Work Generalist Practice	3

#### Elective Requirements

Courses 100-level or higher	16-18
<b>Total Credits (minimum) 60</b>	

#### Recommended Courses

ANTH-225	Native People of North America	3
COMM-220	Intercultural Communication	3
PSYC-205	Developmental Psychology	3
PSYC-211	Abnormal Psychology	3
SOC-101	Introduction to Sociology	3
SOC-220	Marriage and Family	3
SOC-251	Race and Ethnic Relations	3

#### Notes:

<sup>1</sup> This General Education Requirement is partially met by the Program Requirements.

# Sociology

## Associate of Arts Degree

### Transfer Program

Sociology is largely concerned with the study of American society and how it operates today. Graduates may work in society-related activities including sociology, social work, criminology, teaching, and a wide range of social service professions. Completion of the following courses results in an associate's degree and meets the general core requirements at all Idaho public universities. The suggested coursework normally fulfills the first half of baccalaureate degree requirements in Sociology.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing	6
GEM 6 - Social and Behavioral Ways of Knowing <sup>2</sup>	3
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
MATH-253	Principles of Applied Statistics	3
SOC-101	Introduction to Sociology	3
SOC-102	Social Problems	3

**Choose one course from the following:** 3-4

MATH-130	Finite Mathematics
MATH-143	College Algebra

#### Elective Requirements

Courses 100-level or higher 17-18

**Total Credits (minimum) 60**

#### Recommended Courses

ANTH-220	Peoples of the World	3
HIST-102	History of Civilization Since 1500	3

#### Notes:

- <sup>1</sup> This General Education Requirement is met by the Program Requirements.
- <sup>2</sup> This General Education Requirement is partially met by the Program Requirements.

# Theatre

## Associate of Arts Degree

### Transfer Program

This program is designed for students who want to emphasize the theatre arts in the planning of their undergraduate degree. Emphasis is placed on the theatre arts as a valuable study for a wide range of career choices. Theatre arts at NIC are not restricted to those who would like to make theatre a profession. Rather, through the study of communication; critical thinking; problem solving; literary, physical, technical, and psychological/emotional skills, theatre prepares students for success in many different professions. There are no program prerequisites. Previous experience is helpful. Scholarships are available. Participation in theatre requires some evenings and weekends.

### Program Requirements

#### General Education Requirements (see pages 48-49)

Area of Study	Credits
GEM 1 - Written Communication	6
GEM 2 - Oral Communication	3
GEM 3 - Mathematical Ways of Knowing	3-5
GEM 4 - Scientific Ways of Knowing	8
GEM 5 - Humanistic and Artistic Ways of Knowing <sup>1</sup>	3
GEM 6 - Social and Behavioral Ways of Knowing	6
GEM 7 - Institutionally Designated	4

#### Program Requirements

Course No.	Title	Credits
COMM-103	Oral Interpretation	3
THEA-101	Introduction to the Theatre	3
THEA-102	Stage Makeup	3
THEA-103	Introduction to Stagecraft	3
THEA-104	Stagecraft II	3
THEA-115	Basics of Performance I	3
THEA-116	Basics of Performance II	3
THEA-190	Theatre Practice	1
THEA-271	Play Analysis	3

#### Choose one course from the following: 3

COMM-212	Nonverbal Communication	
COMM-233	Interpersonal Communication	
ENGL-271	Introduction to Shakespeare	
ENGL-292	Creative Writing: Fiction	
THEA-201	Scene Design I	
THEA-272	Intermediate Acting	
THEA-273	Stage Lighting	

#### Elective Requirements

Courses 100-level or higher	0
<b>Total Credits (minimum)</b>	<b>61</b>

#### Notes:

<sup>1</sup> This General Education Requirement is partially met by the Program Requirements.

# Virtual Administrative Assistant

## Intermediate Technical Certificate

### Career and Technical Program

The Virtual Administrative Assistant certificate is designed for students to develop administrative support skills that can be delivered virtually. These skills include in-depth computer applications, emerging office technology, transcription, and other general clerical skills. Graduates of this program have opportunities to work as employees who telecommute or are independent contractors providing much-needed administrative support skills to a wide variety of organizations.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
BLDR-120	Financial Business Applications	3
BUSA-101	Introduction to Business	3
CAOT-115	Outlook	1
CAOT-120	Word Processing/Word I	1
CAOT-121	Word Processing/Word II	1
CAOT-122	Word Processing/Word III	1
CAOT-140	Database/Access I	1
CAOT-164	Computer Fundamentals for Tech Programs	1
CAOT-166	Living Online for Tech Programs	1
CAOT-183	Business Editing and Proofreading	3
CSC-106	College Internet Skills	1
		<b>Semester Total 17</b>

#### Second Semester

CAOT-130	Spreadsheets/Excel I	1
CAOT-131	Spreadsheets/Excel II	1
CAOT-132	Spreadsheets/Excel III	1
CAOT-150	PowerPoint	1
CAOT-184	Records Systems Management	3
CAOT-205	Business Document Formatting/Transcription	2
CAOT-210	Office Procedures	3
CAOT-220	Administrative Support Internship I	3
CAOT-250	Office Skills Capstone	1
		<b>Semester Total 16</b>
		<b>Program Total 33</b>

#### Optional Courses

ACCT-110	Small Business Accounting	(3)
BMGT-210	How to Start a Small Business	(1)
BLDR-105	Customer Services	(3)

# Web Design

## Advanced Technical Certificate

### Career and Technical Program

The Web Design program provides students with knowledge of how to design prototype and create compelling business, informational, educational and self-promotional websites. Students will use HTML, CSS, JavaScript, and other web technologies to create designs that meet professional standards for visual design content, user interactivity, usability, and accessibility. Students will produce designs that communicate structured hierarchies of information using industry-standard software applications. The first year of the program consists of fundamental graphic design courses. The second year of the program focuses on modern design skills for web professionals.

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
ECTE-100	Fundamentals for Writing	3
or ENGL-101	English Composition	(3)
GDES-102	Survey of Graphic Design	3
GDES-131	Adobe Illustrator-Vector Graphics	3
GDES-141	Web Development Basics	3
MCTE-101	Technical Mathematics (or higher)	<u>3-5</u>
		<b>Semester Total 15-17</b>

#### Second Semester

COMM-101	Introduction to Speech Communication	3
GDES-112	Drawing for Designers	2
GDES-120	Typography	2
GDES-132	Adobe Photoshop-Raster Graphics	3
GDES-221	Graphic Design I	3
GDES-255	Design Concepts for the Web	<u>3</u>
		<b>Semester Total 16</b>

#### Third Semester

COMM-233	Interpersonal Communication	3
GDES-222	Graphic Design II	3
GDES-225	Introduction to Digital Video	3
GDES-245	User Experience Design and Usability	3
GDES-247	Social Media Design Strategies	<u>2</u>
		<b>Semester Total 14</b>

#### Fourth Semester

GDES-258	DOM Scripting for Designers	3
GDES-261	Applied Web Development	3
GDES-283	Portfolio Development	3
GDES-290	Graphic Design Internship	<u>3</u>
		<b>Semester Total 12</b>
		<b>Program Total 57-59</b>

# Web Design

## Associate of Applied Science Degree

### Career and Technical Program

The Web Design program provides students with knowledge of how to design prototype and create compelling business, informational, educational and self-promotional websites. Students will use HTML, CSS, JavaScript, and other web technologies to create designs that meet professional standards for visual design content, user interactivity, usability, and accessibility. Students will produce designs that communicate structured hierarchies of information using industry-standard software applications. The first year of the program consists of fundamental graphic design courses. The second year of the program focuses on modern design skills for web professionals.

### Program Requirements

#### First Semester

Course No.	Title	Credits
ENGL-101	English Composition	3
GDES-102	Survey of Graphic Design	3
GDES-131	Adobe Illustrator-Vector Graphics	3
GDES-141	Web Development Basics	3
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup> 3-5	3
		<b>Semester Total 15-17</b>

#### Second Semester

COMM-101	Introduction to Speech Communication <sup>2</sup>	3
GDES-112	Drawing for Designers	2
GDES-120	Typography	2
GDES-132	Adobe Photoshop–Raster Graphics	3
GDES-221	Graphic Design I	3
GDES-255	Design Concepts for the Web	3
		<b>Semester Total 16</b>

#### Third Semester

COMM-233	Interpersonal Communication <sup>2</sup>	3
GDES-222	Graphic Design II	3
GDES-225	Introduction to Digital Video	3
GDES-245	User Experience Design and Usability	3
GDES-247	Social Media Design Strategies	2
GDES-260	Development for Mobile Devices	3
		<b>Semester Total 17</b>

#### Fourth Semester

GDES-258	DOM Scripting for Designers	3
GDES-261	Applied Web Development	3
GDES-283	Portfolio Development	3
GDES-290	Graphic Design Internship	3
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 15</b>
		<b>Program Total 63-65</b>

#### Notes:

<sup>1</sup> Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirements listed on page 50.

<sup>2</sup> Satisfies A.A.S. degree requirement.

<sup>3</sup> Select from A.A.S. degree general education requirements listed on page 50.

# Welding Technology

## Intermediate Technical Certificate

### Career and Technical Program

The Welding Technology program is designed to prepare students for entry-level employment. The program complies with national standards established by the American Welding Society (AWS). It combines theory and applied shop practice designed to develop welding skills. Students receive instruction on welding processes including OAC (oxy-acetylene cutting), SMAW (shielded metal arc welding), GMAW (gas metal arc welding), and GTAW (gas tungsten arc welding), as well as blueprint reading, layout procedures, metallurgy, and safety.

Successful completion of each semester and/or permission of the instructor is required for acceptance into the next semester. Placement in specific English and math courses is determined by the college assessment test. Due to the complexity of the second year welding courses a prerequisite requiring the completion of MCTE-106 or higher is required to gain admission to the second year. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill building prior to entering the program.

**Note: Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
MCTE-106	Technical Math for Maintenance Mechanic/Millwright/HVAC/Welding	3
WELD-105	Welding Theory	2
WELD-112	Safety and Leadership	2
WELD-121	Blueprint Reading for Welders	2
WELD-187L	SMAW Practical	4
WELD-188L	Advanced SMAW Practical	1
WELD-197L	Oxy/Fuel Cutting Lab	1

**Semester Total 15**

#### Second Semester

A TEC-117	Occupational Relations and Job Search <sup>1</sup>	2
ECTE-100	Fundamentals for Writing or ENGL-101 English Composition	3 (3)
WELD-100B	Welding Theory	2
WELD-131	Advanced Blueprint Reading	3
WELD-182L	Welding Lab II	6

**Semester Total 16**

**Program Total 31-33**

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.



# Welding Technology

## Advanced Technical Certificate

### Career and Technical Program

The Welding Technology program is designed to prepare students for entry-level employment. The program complies with national standards established by the American Welding Society (AWS). It combines theory and applied shop practice designed to develop welding skills. Students receive instruction on welding processes including OAC (oxy-acetylene cutting), SMAW (shielded metal arc welding), GMAW (gas metal arc welding), and GTAW (gas tungsten arc welding), as well as blueprint reading, layout procedures, metallurgy, and safety.

Successful completion of each semester and/or permission of the instructor is required for acceptance into the next semester. Placement in specific English and math courses is determined by the college assessment test. Due to the complexity of the second year welding courses a prerequisite requiring the completion of MCTE-106 or higher is required to gain admission to the second year. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill building prior to entering the program (see page 43).

**Note: Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

Visit [www.nic.edu/gainfulemployment](http://www.nic.edu/gainfulemployment) for important information about the educational debt, earnings, and completion rates of students who attended this program.

### Program Requirements

#### First Semester

Course No.	Title	Credits
MCTE-106	Technical Math for Maintenance Mechanic/Millwright/HVAC/Welding	3
WELD-105	Welding Theory	2
WELD-112	Safety and Leadership	2
WELD-121	Blueprint Reading for Welders	2
WELD-187L	SMAW Practical	4
WELD-188L	Advanced SMAW Practical	1
WELD-197L	Oxy/Fuel Cutting Lab	1
		<b>Semester Total 15</b>

#### Second Semester

A TEC-117	Occupational Relations and Job Search <sup>1</sup>	2
ECTE-100	Fundamentals for Writing	3
	or ENGL-101 English Composition	(3)
WELD-100B	Welding Theory	2
WELD-131	Advanced Blueprint Reading	3
WELD-182L	Welding Lab II	6
		<b>Semester Total 16</b>

#### Third Semester

WELD-225	Advanced Welding Theory	3
WELD-226	Layout/Mechanical Drawing	2
WELD-281L	Shielded Metal Arc Welding	7
		<b>Semester Total 12</b>

#### Fourth Semester

WELD-227	Advanced Welding Theory II	3
WELD-228	Advanced Mechanical Drawing	3
WELD-291L	Gas Tungsten Arc Welding Lab	6
		<b>Semester Total 12</b>
		<b>Program Total 55</b>

#### Notes:

- <sup>1</sup> Students may substitute another course with written permission of instructor and division chair.

# Welding Technology

## Associate of Applied Science Degree

### Career and Technical Program

The Welding Technology program is designed to prepare students for entry-level employment. The program complies with national standards established by the American Welding Society (AWS). It combines theory and applied shop practice designed to develop welding skills. Students receive instruction on welding processes including OAC (oxy-acetylene cutting), SMAW (shielded metal arc welding), GMAW (gas metal arc welding), and GTAW (gas tungsten arc welding), as well as blueprint reading, layout procedures, metallurgy, and safety.

Successful completion of each semester and/or permission of the instructor is required for acceptance into the next semester. Placement in specific English and math courses is determined by the college assessment test. Due to the complexity of the second year welding courses a prerequisite requiring the completion of MCTE-106 or higher is required to gain admission to the second year. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill building prior to entering the program.

**Note: Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.**

### Program Requirements

#### First Semester

Course No.	Title	Credits
WELD-105	Welding Theory	2
WELD-112	Safety and Leadership	2
WELD-121	Blueprint Reading for Welders	2
WELD-187L	SMAW Practical	4
WELD-188L	Advanced SMAW Practical	1
WELD-197L	Oxy/Fuel Cutting Lab	1
_____	A.A.S. Mathematical Ways of Knowing <sup>1</sup> 3-5	3-5
		<b>Semester Total 15-17</b>

#### Second Semester

ENGL-101	English Composition <sup>2</sup>	3
WELD-100B	Welding Theory	2
WELD-131	Advanced Blueprint Reading	3
WELD-182L	Welding Lab II	6
		<b>Semester Total 14</b>

#### Third Semester

COMM-101	Introduction to Speech Communication <sup>2</sup>	3
WELD-225	Advanced Welding Theory	3
WELD-226	Layout/Mechanical Drawing	2
WELD-281L	Shielded Metal Arc Welding	7
_____	A.A.S. Institutionally Designated <sup>3</sup>	3
		<b>Semester Total 17</b>

#### Fourth Semester

WELD-227	Advanced Welding Theory II	3
WELD-228	Advanced Mechanical Drawing	3
WELD-291L	Gas Tungsten Arc Welding Lab	6
_____	A.A.S. Social and Behavioral Ways of Knowing <sup>3</sup>	3
		<b>Semester Total 15</b>
		<b>Program Total 61-63</b>

#### Notes:

- <sup>1</sup> Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirements listed on page 50.
- <sup>2</sup> Satisfies A.A.S. degree requirement.
- <sup>3</sup> Select from A.A.S. degree general education requirements listed on page 50.



# Course Descriptions

## DEFINITIONS

### Corequisite

A co-requisite is a course that must be taken concurrently with another course or courses.

### Pre/Corequisite

A pre/corequisite is a course or courses that may be taken prior to or concurrently with another course. To satisfy requirements, a prerequisite must be completed with the appropriate grade, usually a C-, to meet course requirements.

### Prerequisite

A prerequisite in the course description means there is a requirement that must be met prior to enrolling in the course. This may include, but is not limited to: completion of other courses, acceptance in certain programs, sophomore standing, instructor permission, and prescribed test scores. If the prerequisite is another course, then that course must have been completed with a minimum grade of C- in order to satisfy the pre-enrollment requirement.

### Recommendation

A recommendation in the course description identifies previously established skill levels or completed courses that are important in assuring a successful enrollment. Recommendations should be carefully considered, but are not required.

### GEM (General Education Matriculation)

The GEM notation and its corresponding number (1-7) in the course description indicates that the course may be used to meet the requirements for that general education competency area as long as a grade of C- or better is earned. (See pages 48-50 for the list of GEM requirements for the Associate of Arts, Associate of Science, and Associate of Applied Science Degrees.)

GEM 1	Written Communication
GEM 2	Oral Communication
GEM 3	Mathematical Ways of Knowing
GEM 4	Scientific Ways of Knowing
GEM 5	Humanistic and Artistic Ways of Knowing
GEM 6	Social and Behavioral Ways of Knowing
GEM 7	Institutionally Designated

## COLLEGE-WIDE COURSE NUMBERS

### 203-Workshop

*Credits arranged*

Certain courses that are of a short duration are typically called workshops. They can be conducted by qualified NIC faculty members or other authorities in a particular field. Six credits maximum may be applied toward graduation.

**Prerequisite:** Permission of the instructor

### 097-, 197-, or 297-Special Topic

*Credits arranged*

Special topic courses are semester-length courses dealing with unique subjects or timely topics conducted by qualified faculty or authorities in a particular field.

### 290-Internship

An internship is an off-campus experience directed by an on-site supervisor, but overseen by a faculty member designated to provide the student with an opportunity to observe and/or participate in a job-related activity that falls within the student's field of study. Six

credits maximum may be applied toward graduation.

**Prerequisite:** Permission of the instructor

### 298-Practicum

A practicum is an out-of-classroom experience designed to give the student an opportunity to apply principles learned in academic course work to specific community-related or employment-related situations. Practicums are overseen by a faculty member. Eight credits maximum can be applied toward graduation.

**Prerequisite:** Permission of the instructor

### 299-Independent Study

*Credits arranged*

Independent study includes individual study involving reading or a project and is offered on demand only. Six credits maximum may be applied toward graduation. Contact the Registrar's Office for Independent Study Guidelines. Enrollment is accepted the first four weeks of each semester or the first two weeks of summer session.

**Prerequisite:** Sophomore standing (26 credits completed), 3.00 GPA, and permission of the instructor

## ACCOUNTING

### ACCT-110

*3 Credits*

### Small Business Accounting

This course introduces students to accounting procedures for individual proprietorship businesses. Emphasis is placed on the accounting cycle, double-entry accounting, payroll, and procedures for handling transactions associated with both service and merchandising businesses. Students will practice proper accounting procedures manually and/or on spreadsheet software. It is also helpful to those who want to upgrade business skills for improved employability. Students may not receive duplicate credit for ACCT-110 and ACCT-201.

**Lecture:** 3 hours per week

### ACCT-111

*3 Credits*

### Small Business Accounting II

This course is a continuation of ACCT-110 with an introduction to accounting procedures for partnerships and corporations. Emphasis will include asset valuation, inventory valuation, and financial statement analysis for small businesses.

**Lecture/Lab:** 3 hours per week

**Prerequisite:** ACCT-110 or ACCT-201

### ACCT-113

*3 Credits*

### Payroll Accounting

This course provides an in-depth study of payroll procedures. Included are a discussion of employees and independent contractors, how to calculate gross wages for hourly and salaried employees, mandatory and voluntary withholdings, employer taxes, recording payroll, and state and federal record keeping requirements. Current tax rates and current tax forms will be used. Some emphasis will be placed on computerized payroll accounting. Completion of a payroll practice set is required.

**Lecture/Lab:** 3 hours per week

**Prerequisite:** ACCT-110 or ACCT-201

### ACCT-138

*3 Credits*

### Accounting for Managers

This course is an introduction to accounting from a user's perspective. Students will explore accounting information's role in the decision-making process and how to use various types of account-

ing information found in financial statements and annual reports. This course will emphasize what accounting information is, why it is important, and how it is used by economic decision makers. Understanding how accounting information can be used to make better business decisions can benefit all students, regardless of their major course of study or chosen career.

**ACCT-140** **QuickBooks Pro**  
3 Credits

This course is an introduction to accounting and computers using QuickBooks. The course will focus on accounting for service and merchandising businesses with emphasis on sales and receivables, purchases and payables, general accounting, payroll accounting, and end-of-period procedures. Computerizing a manual accounting system will also be discussed.

**Lecture/Lab:** 4 hours per week  
**Prerequisite:** ACCT-110 or ACCT-201

**ACCT-150** **10-Key Skill Building**  
1 Credit

This course is a self-paced course provided by online delivery. It is intended to introduce the methods used for 10-key data entry and calculators using a computer program and number key pad. Students must master the correct keystrokes and a minimum speed of 9,000 keystrokes per hour with no mistakes for minimum successful completion (a passing grade of C).

**Lab:** Online delivery  
**Recommended:** Some keyboarding proficiency

**ACCT-201** **Principles of Accounting**  
3 Credits

This course is an introduction to contemporary financial accounting. It emphasizes basic terminology and concepts, the theoretical framework of double entry accounting, and descriptions and derivation of the primary financial statements prepared by accountants. Upon completion of ACCT-201, students may not receive credit for ACCT-110 and/or ACCT-111.

**Lecture/Lab:** 3 hours per week

**ACCT-202** **Managerial Accounting**  
3 Credits

This course is a continuation of ACCT-201 with emphasis on accounting theory and procedures relating to corporations. Manufacturing accounting and accounting for managerial decision making, including analysis and interpretations of financial statements and introduction to cost behavior, is emphasized.

**Lecture/Lab:** 3 hours per week  
**Prerequisite:** ACCT-201

**ACCT-244** **Credit and Collections**  
3 Credits

This course is an introduction to credit and its role in the economy. Topics to be covered will include understanding consumer and business credit, management and analysis of consumer and business credit, international trade credit, and collection management and control. Focus will be on decision making in granting credit and collection policies and procedures including current laws affecting collections.

**Lecture:** 3 hours per week  
**Pre/Corequisite:** ACCT-111 or ACCT-202

**ACCT-242** **Cost Accounting**  
3 Credits

This course is designed to meet the needs of students preparing for a career in financial or cost accounting. Upon completion of this course, students will apply cost concepts and will demonstrate an understanding of cost behavior and accounting cost techniques used in manufacturing, merchandising, and service businesses.

**Lecture:** 3 hours per week  
**Prerequisite:** ACCT-111 or ACCT-202

**ACCT-246** **Current Business Taxes**  
3 Credits

This course provides necessary information to bookkeepers and business owners about local, state, and federal taxes that are currently paid by area businesses. The course will examine business licenses, property tax, sales and use tax, income tax on corporations, and payroll related taxes. Other federal compliance reports will also be discussed. Current tax rates and current tax forms will be used. Guest speakers will explain the history, current taxing environment, and benefits related to particular taxes.

**Lecture:** 3 hours per week  
**Prerequisite:** ACCT-111 or ACCT-202

**ACCT-248** **Accounting Internship**  
4 Credits

This course is the capstone course for the Accounting Assistant program and should be taken after the completion of all required accounting courses. This course consists of on-campus meetings, as well as 135 hours of an off-campus internship which allows for the practical application of concepts learned throughout the program. Emphasis will be on accounting records of an existing business, records management, efficient telephone use, employee/ employer relations, customer service, resumes, cover letters, interview techniques, and stress/time management.

**Lecture:** 15 hours  
**Internship:** 135 hours of site work  
**Prerequisites:** ACCT-140, ACCT-244, and ACCT-246  
**Pre/Corequisites:** ACCT-113

**AEROSPACE TECHNOLOGY**

**AERO-101** **Aviation Science**  
3 credits

This course will provide a study of aeronautical mathematical applications, applied aeronautical physics principles, and drawing interpretation as required by the Federal Aviation Administration (FAA) for airframe mechanics.

**Lecture:** 2 hours per week  
**Lab:** 2 hours per week

**AERO-110** **Safety/OSHA**  
1 credit

This course will teach the fundamentals of health and safety in the workplace. Applicable safety regulations by OSHA and environmental requirements by the EPA will be understood. Safe handling of hazardous materials and disposal of hazardous wastes will be primary. Accident prevention will be emphasized. Instruction will also include basic first aid and fire safety. This course is designed to prepare students to safely perform the job functions of an aerospace composite technician in an accident free manner.

**Lecture:** 1 hour per week

**AERO-111**  
2 credits**Blueprint Reading**

This course will teach basic aircraft blueprint reading skills. Topics will include lines and symbols, orthographic drawings, views, materials, form and position, title blocks, sketching, features, and sections. Students will learn a systematic approach to reading aircraft blueprints through actual manipulation of working drawings.

**Lecture:** 2 hours per week

**AERO-120**  
3 credits**Introduction to Composites**

This course will teach the materials and processes associated with polymer composite structures, components and design. Emphasis will be placed on material properties, manufacturing processes and safety.

**Lecture:** 3 hours per week

**AERO-121****Composite Fabrication Methods/  
Applications**

2 credits

This course will teach the fundamentals of several fabrication methods. Processes will be applied including hand lay-up, bonding, vacuum bagging and vacuum assisted resin transfer molding. Emphasis will also be placed on composites safety and inspection/testing of composite components.

**Lecture:** 1 hour per week

**Lab:** 2 hours per week

**AERO-122****Composite Finish Trim**

1 credit

This course will teach students an understanding of the processes used to finish trim composites parts. Topics include safety, documentation, tools, procedures and inspection. Skills learned in theory sessions are transferred to the lab through projects.

**Lab:** 2 hours per week

**Corequisites:** AERO-123 and AERO-130

**AERO-123****Composite Assembly**

2 credits

This course will teach the fundamentals of joining composite structures. Adhesive bonding as well as mechanical fasteners is covered. Safety procedures are emphasized. Essential elements of this course include the preparation of holes for mechanical fasteners and surface preparation for adhesive bonding. The course consists of theory and practical application and through hands-on projects.

**Lab:** 4 hours per week

**Corequisites:** AERO-122 and AERO-130

**AERO-130****Disassembly and Damage Removal  
Techniques**

1 credit

This course will teach students the knowledge required to safely and effectively prepare a part for repair. In the laboratory setting, students will learn to effectively removed finishes, disassemble and remove damaged composite material. Special attention is paid to developing students' tactile skills in all of these areas.

**Lab:** 2 hours per week

**Corequisites:** AERO-122 and AERO-123

**AERO-131****Composite Repair**

2 credits

This course provides students with the knowledge and application techniques used in general repairs with composite materials. Students complete multiple industry-based projects designed to challenge their skills with both wet lay-up and pre-impregnated composite materials.

**Lab:** 4 hours per week

**Corequisites:** AERO-133, AERO-142, and AERO-143

**AERO-133****Electrical Bonding Repair**

1 credit

This course provides students with the knowledge and skills used in electrical bonding composite repair. Students learn theory and application using secondary bonding techniques as it applied to manufacturer's specifications.

**Lab:** 2 hours per week

**Prerequisites:** AERO-110

**Corequisites:** AERO-131, AERO-142, and AERO-143

**AERO-141 Geometric Dimensioning and Tolerance**

1 credit

This course provides an understanding of the basic terms and principles of Geometric Dimensioning and Tolerance (GD&T) and its applications. The course provides students with the skills and knowledge necessary to identify GD&T symbols and how to interpret those symbols as applied to Aerospace Technology.

**Lab:** 2 hours per week

**Prerequisites:** AERO-110, AERO-111, AERO-120, AERO-121, AERO-122, AERO-123, AERO-130, and MCTE-103 or an appropriate score on a placement test

**AERO-142****Composite Inspection**

1 credit

This course provides students with an understanding of the inspection process during repair procedures. Students learn the role of repair technicians in the inspection process while obtaining hands-on experience in basic Non-Destructive Testing techniques (NDT). Emphasis is placed on the importance of documentation and verification when inspecting repairs.

**Lab:** 2 hours per week

**Prerequisites:** AERO-110

**Corequisites:** AERO-131, AERO-133, and AERO-143

**AERO-143****Advanced Composite Repair**

3 credits

This course provides students with hands-on experience working with structural composite repairs. Advanced repair techniques, materials and processes will be covered. Real life repairs on aircraft and on simulated aircraft parts will be accomplished utilizing industry standard equipment and materials.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**Prerequisites:** AERO-110

**Corequisites:** AERO-131, AERO-133, and AERO-142

**AERO-144****Basics of Quality Assurance**

2 credits

This course will teach students the basics of bringing principles of quality assurance to the production of products or the delivery of a service to achieve quality and efficiency and to eliminate waste. This course will have projects to practice these principles.

**Lecture:** 2 hours per week

**AERO-150****Computer Numerical Control (CNC)  
Mill Basics**

2 credits

This course will instruct students on the setup, programing and operation of vertical Computer Numerical Control (CNC) milling machines. Course will also touch upon the basics of programing in G-Code.

**Lecture:** 2 hours per week

**AERO-152                      CNC Mill Setup and Operation**  
*3 credits*

This course will teach the setup and operation of a CNC (Computer Numerical Control) Mill including setting work and tool offsets, cutter and tool selection, calculation of speeds and feeds and machine maintenance. We will learn the basics of G-Code and applied math including Trigonometry. Learning to work safely will be emphasized. The course will be taught on Haas mills and simulators.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**Corequisites:** AERO-153 and AERO-154

**AERO-153                      Aerospace CNC Mill Operation**  
*3 credits*

This course will teach the skills in operating a CNC (Computer Numerical Control) Mill, including the use of work-holding fixtures and vises, handwork, layout and inspection, along with programming with G-code. This course will teach the machining of aircraft alloys and composites.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**Corequisites:** AERO-152 and AERO-154

**AERO-154                      5 Axis Mill Setup and Operation**  
*3 credits*

This course will teach the advanced skills in running CNC (Computer Numerical Control) milling machine, including multi-work coordinate setups, 5-axis, using a probe, advanced programming with G-code, and an introduction to Mastercam.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**Corequisites:** AERO-152 and AERO-153

**AERO-160                      Introduction to 3-D Printing**  
*3 credits*

This course will give both theory and practical experience with 3-D printing. Students will become familiar with the function of 3-D printers, the mediums used in 3-D printing, and practical applications of this technology. Students will learn to design and produce simple parts using using appropriate software. This course will provide an understanding of 3-D printing from its origins to its future potential..

**Lecture:** 2 hours per week

**Lab:** 2 hours per week

**AERO-191                      Visual Inspection**  
*1 credit*

This course will provide students with a basic knowledge and theory of visual inspection as a primary method. Students are given an overview of other nondestructive testing disciplines that complement visual inspection and they are selected based upon the application. It covers visual inspection techniques for interpretation of suspected defects with visible light, a magnifying glass, mirrors and other measuring tools when required. It includes lab time for hands-on learning to apply techniques. This course is taught in accordance with the American Society for Nondestructive Testing (ASNT) curriculum.

**Lecture:** .5 hours per week

**Lab:** 1 hour per week

**AERO-192                      Liquid Penetrant**  
*1 credit*

This course will provide students with a basic knowledge and theory of the liquid penetrant method. It will cover nondestructive liquid penetrant inspection techniques. Students will test for defects open to the surface in parts made of any nonporous material. This course is taught in accordance with the American Society for Nondestructive Testing (ASNT) curriculum.

**Lecture:** .5 hours per week

**Lab:** 1 hour per week

**AERO-193                      Magnetic Particle**  
*2 credits*

This course will provide students with a basic knowledge and theory of the magnetic particle method. Students will learn magnetic particle inspection methods for detecting surface and subsurface defects and other defects in ferromagnetic materials such as steel. With this method and hands-on lab time, students will learn to locate defects along with their approximate size and shape. This course is taught in accordance with the American Society for Nondestructive Testing (ASNT) curriculum.

**Lecture:** 1 hour per week

**Lab:** 2 hours per week

**AERO-194                      Eddy Current**  
*3 credits*

This course will provide students with a basic knowledge and theory of the eddy current method. Students will learn the use of electromagnetic testing equipment making it possible to locate defects in non-ferromagnetic materials (such as aluminum and stainless steel). Students will gain a basic knowledge of electromagnetic analysis through a broad spectrum of electronic test methods and hands-on lab time involving the intersection of magnetic fields and circulatory currents. This lecture/lab course satisfies a requirement as set forth by the American Society for Nondestructive Testing (ASNT) curriculum.

**Lecture:** 2 hours per week

**Lab:** 2 hours per week

**AERO-195                      Ultrasonic**  
*4 credits*

This course will provide students with a basic knowledge and theory of the ultrasonic testing method. Students will learn the use of ultrasonic detection equipment through lecture and hands-on training making it possible to locate internal defects in metal and composite materials. This course is taught in accordance with the American Society for Nondestructive Testing (ASNT) curriculum.

**Lecture:** 2 hours per week

**Lab:** 4 hours per week

**AIRFRAME MAINTENANCE TECHNOLOGY****AERM-102                      Basic Electricity**  
*3 Credits*

This course will provide students with a study of aircraft electrical systems and their requirements including the use of the ammeter, voltmeter, and ohmmeter; series and parallel circuits; inductance and capacitance; magnetism; converting alternating current (AC) to direct current (DC); controlling devices; maintenance and servicing of aircraft batteries; and reading and interpreting aircraft electrical diagrams to solid state devices and logic functions.

**AERM-103 Weight and Balance**  
*2 Credits*

This course will provide students with an introduction to the study of the Federal Aviation Administration (FAA) required subjects relating to the weighing of aircraft, weight and balance calculations and appropriate maintenance record entries.

**AERM-104 Shop Practices**  
*3 Credits*

This course will provide students with an introduction to shop safety, the correct use of hand tools, equipment and precision measurement, identification of aircraft hardware, and the fabrication of fluid lines and tubing. Procedures for testing, heat treating, and inspection of aircraft structures will also be addressed.

**AERM-105 Ground Operations**  
*3 Credits*

This course will provide students with an introductory course in fuels, servicing methods, safety procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning, and corrosion control.

**AERM-106 Federal Aviation Regulations**  
*2 Credits*

This course will provide students with a study in the use and understanding of the Federal Aviation Administration (FAA) and aircraft manufacturers' publications, forms, and records. Students will learn data research and exercise and understand mechanic privileges and limitations.

**AERM-201 Wood, Fabric, and Finishes**  
*2 Credits*

This course will provide students with a study in the use and care of various covering materials, finishes and wood structures including approved methods and procedures with emphasis on the correct use of chemicals.

**AERM-202 Aircraft Sheet Metal**  
*5 Credits*

This course will provide students with the skill development in inspection and repair of sheet metal structures including forming, lay out, and bending of sheet metal and identification, selection, and installation of rivets and fasteners.

**AERM-203 Aircraft Composites**  
*2 Credits*

This course will provide students with a study of comprehensive concepts of the inspection and repair of composite, fabric, core, and laminated structural materials including doors, windows, bonded structures, and interior furnishings. Safety procedures to include the handling and storage of composite materials will also be addressed.

**AERM-204 Aircraft Welding**  
*2 Credits*

This course will provide students with the skill development in repair procedures for steel, magnesium, brass, and aluminum materials. The selection and application of appropriate methods of welding, brazing, and soldering will be covered.

**AERM-205 Assembly and Rigging**  
*2 Credits*

This course will provide students with a comprehensive study of the assembly and rigging of fixed and rotary-wing aircraft includ-

ing structural alignment, balancing and rigging of control systems and assembly of aircraft components.

**AERM-206 Airframe Inspection**  
*2 Credits*

This course will provide students with an in-depth coverage of methods and procedures to perform airframe conformity and air worthiness inspections (including One Hundred Hour Inspections) in accordance with Federal Aviation Regulations and manufacturer's service information.

**Pre/Corequisites:** AERM-201, AERM-202, AERM-203, AERM-204, AERM-205, AERM-211, AERM-212, AERM-213, and AERM-215

**AERM-211 Landing Gear Systems**  
*3 Credits*

This course will provide students with a study of the general principles of inspection, servicing, overhaul, and repair of fixed and retractable landing gear systems and the operation and repair of position and warning systems.

**AERM-212 Hydraulics, Pneumatics, and Fuel Systems**  
*3 Credits*

This course will provide students with the skill development in inspecting, servicing and maintaining aircraft fluid systems including hydraulics, pneumatics, and fuel. Application of basic concepts through detailed maintenance procedures will be addressed.

**AERM-213 Airframe Auxiliary Systems**  
*3 Credits*

This course will provide students with a comprehensive study of airframe auxiliary systems including cabin atmospheric control systems, ice and rain control systems for aircraft and engines and fire detection and protection systems.

**AERM-214 Instruments, Navigation, and Communication Systems**  
*2 Credits*

This course will provide students with a study of aircraft instruments and electronic flight instrument systems including testing and installing instruments; inspecting, checking, and troubleshooting navigation and communication systems; and inspecting and repairing antennas and electronic equipment installations.

**AERM-215 Airframe Electrical Systems**  
*3 Credits*

This course will provide students with a study of airframe electrical systems including installation, removal, disassembly, and repair of electrical components and related wiring.

**Prerequisites:** AERM-102

**ALLIED HEALTH**
**ALTH-105 Infection Prevention**  
*2 Credits*

This course is an introduction to concepts regarding infection/prevention and control with major emphasis on the blood-borne pathogens HIV and Hepatitis B. Modes of transmission, prevention and OSHA standards for blood-borne pathogens, basic pathophysiology of HIV and Hepatitis B, and current treatments will be defined. Psychosocial, legal, and ethical issues about these diseases will also be discussed.

**Lecture:** 2 hours per week



**ALTH-107**
*1 Credit*
**Communication for Health Professionals**

This course provides allied health students the opportunity to develop communication skills necessary for effective helping and teamwork relationships.

**Lecture:** 2 hours per week for 8 weeks

**ALTH-110**
*2 Credits*
**Over the Counter and Herbal Medications**

This course provides an overview of the significance of over the counter (OTC) and herbal drug therapy in our society. The role of the pharmacy technician in selling and providing information about OTC and herbal therapy will be reviewed. Therapeutic drug classifications, indications, dosage forms, major ingredients, common side effects, and significant drug interactions will be covered for OTC drugs. For herbal medications, students will learn to associate the names of herbal medications with common uses, recognize potential adverse effects, and be aware of potential drug interactions between herbs and conventional medication. Federal regulation of OTC and herbal medications will be reviewed.

**Lecture:** 2 hours per week

**ALTH-115**
*3 Credits*
**Human Body Structure and Function**
*(Previously PN 104)*

This course is a presentation of the essential anatomy and physiology of the human body. All body organ systems are discussed in a format of lecture, diagrams, and audiovisual materials. The course will introduce some aspects of chemistry and microbiology as it relates to health care. Knowledge of the anatomy and physiology of the human body as a basis for later study of disease processes is an essential part of the curriculum for students in the nursing profession.

**Prerequisite:** Must be a Practical Nursing student

**ALTH-130**
*5 Credits*
**Nursing Assistant (CNA)**

This course serves as an introduction to health care as a provider. It prepares students to provide basic physical and environmental care for individuals in a variety of health care and home care settings. The course is designed as competency-based education, meaning that students will be required to demonstrate the knowledge and skills they have acquired. At the completion of this course, students will be eligible to take the state mandate written and clinical skills exams. Successful completion of the state exams meets the requirements of P.L. 100-203, Omnibus Budget Reconciliation Act (OBRA) of 1987.

**Lecture:** 4 hours per week

**Lab:** 4 hours per week

ies, focusing on patterns of persistence and change in American Indian communities, especially political, linguistic, social, legal, and cultural change.

**Lecture:** 3 hours per week

**Recommended:** ENGL-101 and ANTH-225

**GEM 6**

**AIST-225**
*3 Credits*
**Native People of North America (same as ANTH-225)**

This course offers an examination of who the North American Indians are and who they were. Various facets of Indian culture are explored, including hunting, religion, art, living styles, foods, and relationships between the Native American tribes both now and in the past. ANTH-225 is an interesting course for students curious about Native Americans and their relationship with the environment.

**Lecture:** 3 hours per week

**Recommended:** ANTH-100

**AIST-240**
*3 Credits*
**American Indian History (same as HIST-240)**

This course provides a historical overview of post-contact Indian and non-Indian relations and their effect on Indian culture, including reactions, adaptations, and conflicts in social, political, and economic systems. Some emphasis will be placed on prominent Indian personages and geographical groups, their migrations and intertribal and U.S government relationships, including federal Indian policy. Students will gain a deeper sense of "nations" and an understanding of the importance of tribal heritage and identify from a historical perspective.

**Lecture:** 3 hours per week

**Prerequisites:** ENGL-101

**AIST-285**
*3 Credits*
**American Indian Literature (same as ENGL-285)**

This course explores traditional American Indian world views and belief systems as reflected in myths and legends, as well as contemporary poetry, short stories, and novels by Native Americans. The difference between American Indian and Eurocentric world views and the implications of these differences will be considered, as illustrated in literature. The course will also explore political, sociological, and psychological effects on American Indians of U.S. governmental policies and actions taken in regard to various tribes.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101

**Recommended:** ENGL-175

**GEM 5**

**AMERICAN INDIAN STUDIES**
**AIST-101**
*3 Credits*
**Introduction to American Indian Studies**

This course provides a general overview of American Indian history, culture, philosophy, religious practices, music, art, literature, tribal law, government, and sovereignty. The course will focus on both traditional and contemporary cultures with an emphasis on issues in American Indian life. The course will also cover the origins and development of content and method in American Indian stud-

**ANTHROPOLOGY**
**ANTH-100**
*3 Credits*
**Introduction to Anthropology**

This course provides a basic understanding of the four sub-fields of anthropology: biological anthropology, archaeology, linguistics, and sociocultural anthropology. The course introduces foundational concepts, theories, and methods used by anthropologists to examine human cultural and biological variation through time and space. Emphasis is placed upon how the science of anthropology can be applied to help understand and solve contemporary problems.

**GEM 6**

**ANTH-220****Peoples of the World****3 Credits**

This course provides a detailed overview of cultural anthropology. The course examines foundational concepts, methods, and theories used by anthropologists to examine the diversity of cultural practices and beliefs that exist throughout the world. Topics include: language, kinship, religion, magic, witchcraft, political systems, gender, and inequality among others. Emphasis is placed upon the comparative study of indigenous communities and how the science of cultural anthropology can be applied to help understand and solve contemporary problems.

**Lecture:** 3 hours per week**GEM 6****ANTH-225****Native People of North America  
(same as AIST-225)****3 Credits**

This course provides a general overview of North American Indian cultures. The course includes foundational concepts and methods used by anthropologists to better understand the diversity of indigenous beliefs and practices historically and today. This includes the examination of language, religion, subsistence, political systems, kinship, political systems, and contemporary issues among others. Emphasis is placed upon understanding and solving contemporary issues.

**Lecture:** 3 hours per week**Recommended:** ANTH-100**ANTH-230****Introduction to Archaeology  
and World Prehistory****3 Credits**

This course provides a detailed overview of world prehistory through archaeology. The course introduces foundational concepts, methods, and theories used by archaeologists to examine human biological and cultural diversity in prehistory. This includes the examination of the origin of humans, evidence of first stone tools, artifact analysis, dating techniques, origins of agriculture, and the rise of early states. Emphasis is placed upon how knowledge gained from past human experiences can help us to understand and solve contemporary problems.

**Seminar:** 3 hours per week**Recommended:** ANTH-100**ANTH-251 Introduction to Biological Anthropology****3 Credits**

This course provides a detailed overview of biological anthropology. The course comprises foundational concepts, methods, and theories used by anthropologists to better understand human biological diversity across time and space. This includes the examination of evolutionary theory, genetics, comparative anatomy, primate studies, and key archaeological finds to evaluate where, when, how, and why humans have evolved to be the organisms that we are today. Emphasis is placed upon how the science of biological anthropology can be applied to help understand and solve contemporary problems.

**Lecture:** 3 hours per week**Recommended:** ANTH-100**ANTH-299****Independent Study: Readings in  
the History of Anthropology****3 Credits**

This course is an individual study in which students complete readings from books relating to the development of modern anthropological thinking. Students will prepare a document based on those readings.

**Instructor Contact:** 3 hours per week**Prerequisites:** ANTH-220, ANTH-230, ANTH-251, and ENGL-102**APPLIED TECHNOLOGY****ATEC-110****Successful Job Search****1 Credit**

This course serves as an introduction to the fundamental techniques necessary to gain entry-level employment. Its underlying assumption is that it is better to teach someone how to find his or her own job, than to find one for that person. Techniques include identifying skills, resumes, interviewing, and conducting a successful job search.

**Lecture:** 1 hour per week**ATEC-117 Occupational Relations and Job Search****2 Credits**

This course is designed to expose students to a variety of skills for workplace success. Topics to be discussed include learning styles, change, communications, conflict, work teams, leadership, and attitude. Students will also explore the fundamental techniques necessary to get a job, such as matching skills to job requirements, writing resumes and cover letters, and learning strategies for successful interviewing.

**Lecture:** 2 hours per week**ART AND DESIGN****ART-100****Survey of Art****3 Credits**

This course is designed to create a greater aesthetic understanding and appreciation of the various visual arts. Emphasis will be on painting, sculpture, architecture, and related art forms. When appropriate, gallery tours, films, and visiting artists will be included. A basic understanding of visual art coordinates with the principles emphasized in studio art classes. This course is appropriate for both non-art students and art majors who wish to view art with greater awareness and respond to and evaluate art with approaches that are both objective and critically subjective.

**Lecture:** 3 hours per week**GEM 5****ART-101****Art History from Caves to Cathedrals****3 Credits**

This course offers a historical survey of visual art from prehistoric societies to the 12th century. Through study of significant works of visual art, including architecture, sculpture, and painting, students develop aesthetic awareness along with an understanding of the societies and cultural contexts pivotal to the development of European and non-European art. This process enables the student to make connections to contemporary society and culture. No prior course or experience with art or history is required.

**Lecture:** 3 hours per week**Recommended:** College-level reading and writing skills**GEM 5****ART-102****Art History from Da Vinci to Digital****3 Credits**

This course offers a historical survey of visual art from the 1300s to the present. Through study of significant works of visual art, including architecture, sculpture, painting, and current digital arts, the course emphasizes the struggle to find a universal visual language for a world of changing values, new institutions, and un-

precedented diversity. This course develops students' understanding of the interconnections of visual art within diverse societies and cultural contexts. Students learn how creative expression and visual communication relate to contemporary society and culture. No prior course or experience with art or history is required.

**Lecture:** 3 hours per week

**Recommended:** College-level reading and writing skills

**GEM 5**

**ART-111**  
2 Credits

**Drawing I**

This course offers beginning experiences in the concepts of composition, line, value, form, perspective and texture, introduced through the use of still life, nature, and the model. The media used include charcoal, conte, pencil, and dry pastels. This course is also fundamental for the Graphic Design program and for transfer programs in fine arts and architecture. The concepts covered in this course will help students develop a visual vocabulary as well as a heightened ability to "see" and respond creatively.

**Lecture/Lab:** 4 hours per week

**ART-112**  
2 Credits

**Drawing II**

This course is a continuation of ART-111 with an emphasis on personal artistic expression and imagery. Students will be exposed to a variety of drawing mediums and approaches to the picture plane. Traditional, as well as contemporary trends in drawing, will be explored.

**Lecture/Lab:** 4 hours per week

**Prerequisite:** ART-111

**ART-121**  
3 Credits

**2D/Design Foundations**

This course offers instruction in the design process with consideration of abstract/concrete and intangible/tangible elements. These design elements are explored through various media in two-dimensional problems. ART-121 helps students to channel conceptual thinking and to organize and master skills of the basic elements of art. The course is necessary for the artist/designer in all fields.

**Lecture/Lab:** 5 hours per week

**ART-122**  
3 Credits

**3D/Design Foundations**

This course offers instruction in the use of basic art fundamentals as applied to three-dimensional art work and the creative concepts evolving from these properties. This course helps students to channel conceptual thinking and organize and master skills of the basic elements of art as they relate to three-dimensional expression. Design II is important for artists and designers in all fields.

**Lecture/Lab:** 5 hours per week

**ART-210**  
2 credits

**Illustration I**

This course is an introduction to illustration from the perspective of a graphic design professional. Particular emphasis is placed on how to quickly and efficiently visualize and render objects, environments, and figures under real-world constraints of time, media, and imagination. This course is a real-media artistic construction course that uses paint, ink, pens, and pencils to teach fundamental skill sets that prepare students for subsequent courses and digital illustration.

**Lecture:** 1 hour per week

**Lab:** 3 hours per week

**ART-211**  
2 credits

**Illustration II**

This course is a continuation of ART-210, emphasizing the skills necessary to creatively solve visual problems and meet deadlines. Included will be newspaper illustration, technical illustration, literary illustration, and statistical illustration.

**Prerequisite:** ART-210

**Recommended:** ART-111

**ART-217**  
3 Credits

**Life Drawing I**

This course offers an exploration of various media to develop an artistic understanding of the human form. Emphasis will include both anatomical analysis and interpretive drawing of the undraped and draped model. ART-217 helps to develop eye/hand coordination that is important for careers in applied arts and fine arts.

**Lecture/Lab:** 5 hours per week

**Prerequisites:** ART-111 and ART-112

**ART-218**  
3 Credits

**Life Drawing II**

This course is an exploration in the artistic expression of the draped and undraped human form. Included will be drawing in various media from the model with an emphasis on personal interpretation. ART-218 offers a basis for development in any of the visual arts. The course equally accommodates the gestural artist and the technical illustrator.

**Lecture/Lab:** 5 hours per week

**Prerequisites:** ART-111 and ART-112

**ART-231**  
3 Credits

**Beginning Painting I**

This course develops competence with the oil paint medium through specific assignments designed to emphasize composition and the fundamentals of painting and color. Attention is given to visual thinking, exploration, exposure to materials, and technical procedures. The course is structured around individual instruction and group critiques. ART-231 helps develop ideas and competence with a creative medium. It promotes the articulation of feelings and objectives through a descriptive visual vocabulary. Class supplies are to be purchased by the student.

**Lecture/Lab:** 5 hours per week

**ART-232**  
3 Credits

**Beginning Painting II**

This course offers additional instruction in the knowledge and understanding of the paint medium with special emphasis on personal development. The course is structured around personal instruction and group critiques. Beginning Painting II encourages divergent thinking and different approaches with the medium through the presentation of abstract concepts. Class supplies are to be purchased by the student.

**Lecture/Lab:** 5 hours per week

**ART-241**  
3 Credits

**Sculpture I**

This course provides an introduction to ideas and materials designed to facilitate the student's response to three-dimensional forms. Emphasis is on concepts of modeling, carving, and constructing. This course promotes confidence for the three-dimensional artist through technical fundamentals.

**Lecture/Lab:** 5 hours per week

**ART-242**  
3 Credits**Sculpture II**

This course is a continuation of Sculpture I. The course explores problems of greater complexity through both technical and personal involvement. The course further develops the necessary skills for three-dimensional work.

**Lecture/Lab:** 5 hours per week

**ART-245**  
3 Credits**Intermediate Painting I**

This course is structured to meet students' needs and interests with an emphasis on creative expression and exploration beyond the visual image. The course includes individual instruction and group critiques. It promotes an appreciation for the complexity of the medium and the range of possibilities associated with it. It is intended for the intermediate student who has a firm understanding of the properties and fundamentals of this studio discipline. Class supplies are to be purchased by the student.

**Lecture/Lab:** 5 hours per week

**Prerequisite:** ART-231 and ART-232

**ART-246**  
3 Credits**Intermediate Painting II**

This course is a continuation of ART-245. The course focuses on developing students' greater understanding of personal intent, continuing creative expression, and exploration beyond the visual image. The course offers individual instruction and group critiques. Class supplies are to be purchased by the student.

**Lecture/Lab:** 5 hours per week

**Prerequisites:** ART-231 and ART-232

**ART-251**  
3 Credits**Printmaking I**

This course explores the relief printmaking processes of woodcut, linocut, wood engraving, and collagraph. Emphasis is on developing compositional and design skills using the various methods, techniques, and exploration of materials. Additional focus will be placed on the historical influence of each medium and its relationship to other artistic expressions. The course is structured around individual instruction, group critiques, lectures/slides, and studio time.

**Lecture/Lab:** 5 hours per week

**ART-252**  
3 Credits**Printmaking II**

This course provides additional exploration of the relief printmaking process. While concentrating on linocuts and one other medium of choice, the course explores various techniques and methods of printmaking. Focus is on developing compositional and design skills, using color, and developing personal expression. The course is structured around individual instruction, group critiques, lectures/slides, and studio time.

**Lecture/Lab:** 5 hours per week

**ART-261**  
3 Credits**Ceramics I**

This course introduces the student to wheel-thrown and handbuilt clay forming techniques, ceramic design concepts, and glaze experimentation. Emphasis is on the development of fundamental skills and understanding the creative potential of clay. This course helps develop sensitivity of design and aesthetics for the clay objects used daily. The course enhances an appreciation for the creative process and establishes the student as a designer/craftsperson.

**Lecture/Lab:** 5 hours per week

**ART-262**  
3 Credits**Ceramics II**

This course is a continuation of Ceramics I and is structured to develop the creative potential of the student using the medium of clay as a vehicle of communication. The course focuses on continued development of fundamental skills and expressive use of materials. Additional emphasis is placed on establishing individual design criteria and expanding awareness of aesthetic qualities of ceramics as art forms or as utilitarian vessels. This may be repeated for a total of 12 credits.

**Lecture/Lab:** 5 hours per week

**Prerequisite:** ART-261

**ART-281**  
3 Credits**Watercolor I**

This course introduces the student to a water-based medium that includes the application of visual and tactile elements and the functions of design. Emphasis will be on visual thinking, exploration, exposure to materials, and technical approaches. Individual instruction and group critiques are utilized. ART-281 helps to develop an appreciation for complexities and the potential for creative expression. Class supplies are to be purchased by the student.

**Lecture/Lab:** 5 hours per week

**ART-282**  
3 Credits**Watercolor II**

This course offers additional instruction in watercolor design to increase student awareness, knowledge, and understanding of the medium's potential. This course introduces mixed media for the purpose of combining with the watercolor medium. Individual approaches are encouraged and personal development is emphasized. This course helps to develop different approaches and divergent thinking through the presentation of abstract concepts. Class supplies are to be purchased by the student.

**Lecture/Lab:** 5 hours per week

**ART-285**  
3 Credits**Professional Practices**

This course provides instruction in the business of art, guides in the development of portfolios, and requires a final exhibition of students' work. Art students transferring to colleges and universities will prepare portfolios, artist statements, and resumes. Moreover, students will learn about the business of fine art and design and its career options. Each student is expected to conduct both traditional and field research, to select from among artwork and completed in previous classes for a strong portfolio, to write an essay that articulates the artwork's focus, and to show selected work in a group exhibition.

**Lecture:** 3 hours per week

**Prerequisite:** Must be an Art major

**AUTOMOTIVE TECHNOLOGY**

**NOTE:** Course enrollment requires prior acceptance into the Automotive Technology program. Successful completion of each semester and/or permission of the instructor is required for enrollment in the next semester.

**AUTO-102 Automotive Technology Fundamentals and Safety**

2 Credits

This course is an introduction to the automotive industry including safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities and basic automotive maintenance.

**Lecture/Lab:** 2 hours per week**Corequisites:** AUTO-119L**AUTO-111 Manual Drive Trains and Axles**

2 Credits

This course discusses the theory and operation of current, manually-shifted transmissions, transaxles and transfer cases, as well as the theory and operation of drive shafts, axles and differentials as used with passenger cars and light trucks and SUVs.

**Lecture/Lab:** 4 hours per week**Corequisites:** AUTO-119L**Recommended:** AUTO-118**AUTO-118 Electrical Systems**

3 Credits

This course will cover basic electrical theory, wiring diagrams, test equipment, diagnosis, repair, replacement of electrical components, including battery, starting, charging, and lighting systems. Upon successful completion, the student should be able to properly use wiring diagrams and test equipment to diagnose, test, and repair wiring and lighting in accordance with Automotive Service Excellence (ASE) standards.

**Lecture/Lab:** 5 hours per week**Corequisites:** AUTO-119L**Recommended:** AUTO-111**AUTO-119L Automotive Lab I**

7 Credits

This course is designed to apply the theory and practices discussed in the corequisite lecture courses through hands-on tasks. Lab activities include, but are not limited to, demonstrations by instructor, assigned tasks utilizing tools, equipment on various mock up vehicles and components. Other lab activities may include familiarization of system operation, research of service information, service and repair procedures, as well as component and system diagnosis.

**Lab:** 14 hours per week**Corequisites:** AUTO-111, AUTO-118**AUTO-124 Brakes, Suspension and Steering**

2 Credits

This course discusses the theory, operation, diagnosis, adjustment and repair of current braking, steering, and suspension systems as used on current automobiles, light trucks and SUVs. Antilock braking systems, stability control systems, tire pressure monitoring systems, tire service and wheel alignment will also be covered.

**Lecture/Lab:** 4 hours per week**Corequisites:** AUTO-129L**Prerequisites:** AUTO-111, AUTO-118, AUTO-119L**Recommended:** AUTO-127**AUTO-127 Engine Repair**

3 Credits

This course will cover the theory, construction, inspection, diagnosis, and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines

using appropriate service information. Upon successful completion, student should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures and service information in accordance with Automotive Service Excellence (ASE) standards.

**Lecture/Lab:** 5 hours per week**Corequisites:** AUTO-129L**Prerequisites:** AUTO-111, AUTO-118, AUTO-119L**Recommended:** AUTO-124**AUTO-129L Automotive Lab II**

7 Credits

This course is designed to apply the theory and practices discussed in the corequisite lecture courses through hands-on tasks. Lab activities include, but are not limited to, demonstrations by instructor, assigned tasks utilizing tools, equipment on various mock up and live vehicles and components. Other lab activities may include familiarization of system operation, research of service information, service and repair procedures, as well as component and system diagnosis.

**Lab:** 14 hours per week**Corequisites:** AUTO-124, AUTO-127**Prerequisites:** AUTO-111, AUTO-118, AUTO-119L**AUTO-231 Engine Performance I**

3 Credits

This course discusses the theory, operation, diagnosis and repair of the mechanical, electrical/electronic, fuel, induction, exhaust and emission systems of the modern internal combustion engine as related to current automobiles, light trucks and SUVs.

**Lecture/Lab:** 5 hours per week**Corequisites:** AUTO-235L**Prerequisites:** AUTO-111, AUTO-118, AUTO-119L, AUTO-124, AUTO-127, AUTO-129L**Recommended:** AUTO-233**AUTO-233 Electrical Systems II and HVAC**

2 Credits

This course discusses the theory, operation, diagnosis and repair of advanced electrical systems and electronic systems, as related to current automobiles, light trucks and SUVs. This course also includes the theory, diagnosis, service practices and repair of the current automotive air conditioning and automatic temperature control systems used with current automobiles, light trucks and SUVs.

**Lecture/Lab:** 4 hours per week**Corequisites:** AUTO-235L**Prerequisites:** AUTO-111, AUTO-118, AUTO-119L, AUTO-124, AUTO-127, AUTO-129L**Recommended:** AUTO-231**AUTO-235L Advanced Automotive Lab III**

7 Credits

This course is designed to apply the theory and practices discussed in the corequisite lecture courses through hands-on tasks. Lab activities include, but are not limited to, demonstrations by instructor, assigned tasks utilizing tools, equipment on various mock up and live vehicles and components. Other lab activities may include familiarization of system operation, research of service information, service and repair procedures, as well as component and system diagnosis.

**Lab:** 14 hours per week**Corequisites:** AUTO-231, AUTO-233**Prerequisites:** AUTO-111, AUTO-118, AUTO-119L, AUTO-124, AUTO-127, AUTO-129L

**AUTO-241 Automatic Transmissions/Transaxles**
**3 Credits**

This course discusses the theory, operation, diagnosis and repair of current, electronically controlled automatic transmissions and transaxles.

**Lecture/Lab:** 5 hours per week

**Corequisites:** AUTO-245L

**Prerequisites:** AUTO-111, AUTO-118, AUTO-119L, AUTO-124, AUTO-127, AUTO-129L, AUTO-231, AUTO-233, AUTO-235L

**Recommended:** AUTO-243

**AUTO-243 Engine Performance II**
**2 Credits**

This course focuses on advanced drivability issues that affect engine performance. Emphasis will be on diagnostic strategies. Discussions will involve the function, diagnosis and repair of current automobile systems that affect engine performance and emissions utilizing the diagnostic equipment available. This course is designed for students to prepare for the ASE L1 - Advanced Level Engine Performance certification test.

**Lecture/Lab:** 4 hours per week

**Corequisites:** AUTO-245L

**Prerequisites:** AUTO-111, AUTO-118, AUTO-119L, AUTO-124, AUTO-127, AUTO-129L, AUTO-231, AUTO-233, AUTO-235L

**Recommended:** AUTO-241

**AUTO-245L Advanced Automotive Lab IV**
**7 Credits**

This course is designed to apply the theory and practices discussed in the corequisite lecture courses through hands-on tasks. Lab activities include, but are not limited to, demonstrations by instructor, assigned tasks utilizing tools, equipment on various mock up and live vehicles and components. Other lab activities may include familiarization of system operation, research of service information, service and repair procedures, as well as component and system diagnosis.

**Lab:** 14 hours per week

**Corequisites:** AUTO-243, AUTO-241

**Prerequisites:** AUTO-111, AUTO-118, AUTO-119L, AUTO-124, AUTO-127, AUTO-129L, AUTO-231, AUTO-233, AUTO-235L

**AVIATION FLIGHT TRAINING**
**AEFT-101 Introduction to Flight**
**1 Credit**

This course introduces the student to the aircraft, its flight manual, the basic federal aviation regulations, elementary principles of flight, aircraft operation, and NIC flight school rules.

**Lecture:** 1 hour per week

**AEFT-104 Private Pilot Ground School**
**4 Credits**

This course prepares the student to take the FAA private pilot knowledge examination. It includes basic navigation, weather, federal aviation regulations, National Transportation Safety Board (NTSB) reporting procedures, radio procedures, Aeronautical Information Manual (AIM) advisory circulars, operating limitations, aircraft performance, principles of aerodynamics, power plants and systems, Aeronautical Decision Making (ADM) and judgment, preflight action and planning.

**Lecture:** 4 hours per week

**AEFT-106 Meteorology**
**3 Credits**

This course is designed for pilots but is helpful for the non-aviation major to understand the basics of meteorology. It is a study in the nature of the atmosphere, winds, temperature, moisture, air masses and frontal systems, weather forecasting using products available from government sources.

**Lecture:** 3 hours per week

**AEFT-108 Theory of Flight**
**3 Credits**

This course covers basic aerodynamic theory of flight, aircraft instruments, performance, stability, control, airframe stress, structural limits, and turbo charging.

**Lecture:** 3 hours per week

**AEFT-110 Commercial Pilot Ground School**
**3 Credits**

This course prepares the student to take the FAA commercial pilot knowledge test. It includes the study of applicable Federal Acquisition Regulation's, accident reporting requirements of the National Transportation Safety Board, basic aerodynamics and the principles of flight, meteorology and the use of weather reports and forecasts, safe and efficient operation of aircraft, weight and balance computations, use of performance charts, performance limitation, use of navigation facilities, Aeronautical Decision Making, judgment and Crew Resource Management, principles and functions of aircraft systems, maneuvers, procedures and emergency operations, night and high-altitude operations, and the National Airspace System.

**Lecture:** 3 hours per week

**AEFT-112 Turbine Transition Ground**
**1 Credit**

This course prepares students for flight in turbine powered helicopters. It covers use of turbine performance charts and performance limitations as well as an understanding of turbine aircraft specific emergency operations and systems including electrical, hydraulic flight controls, avionics, and powertrain.

**Lecture:** 1 hour per week

**AEFT-120 Private Pilot Helicopter Stage I**
**4 Credits**

This course covers the basic flying procedures and skills necessary for the first solo flight in a helicopter. Student will also be introduced to confined area operations, slope operations, night flying, and cross-country navigation in a helicopter.

**Lecture:** 1 hour per week

**Lab:** 6 hours per week

**AEFT-122 Private Pilot Helicopter Stage II**
**4 Credits**

This course provides students with the information to gain proficiency and skill in maneuvers and navigation to the level of the Private Pilot Helicopter Practical Test standards and will complete certification requirements for the Private Pilot Certificate-Helicopter.

**Lecture:** 1 hour per week

**Lab:** 6 hours per week

**AEFT-124 Commercial Pilot Helicopter Stage III**
**3 Credits**

This course provides students with the information to gain proficiency and skill in commercial pilot scenarios and build additional

cross country flight experience in a helicopter.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**AEFT-126 Turbine Transition Flight**  
2 Credits

This course prepares students in the basic flying procedures of turbine powered helicopters. It includes use of turbine performance charts and performance limitations; understanding of turbine aircraft specific emergency operations and systems including electrical, hydraulic flight controls, avionics, and powertrain.

**Lecture:** 1 hour per week

**Lab:** 2 hours per week

**AEFT-134 Flight Alternate I**  
1 Credit

This course provides additional aircraft flight time to allow the intermediate student additional time to increase his/her skill or complete a course of study. Includes flight time and follow-up critique.

**Lab:** 3 hours per week

**AEFT-202 Instrument Ground School**  
3 Credits

This course prepares students for the FAA instrument knowledge examination. It includes Federal Aviation Regulation's (FAR) that apply to Instrument Flight Rules (IFR), appropriate sections of Aeronautical Information Manual (AIM), air traffic control system and procedures, Instrument Flight Rules (IFR) navigation systems and instruments, use of en route and instrument approach charts, aircraft operations under Instrument Flight Rules, procurement and use of aviation weather reports and forecasts, recognition of critical weather situations and wind shear avoidance, Aeronautical Decision Making (ADM) and judgment, and Crew Resource Management (CRM).

**Lecture:** 3 hours per week

**AEFT-204 Aircraft Systems**  
3 Credits

This course introduces the systems of complex aircraft including fuel, hydraulic, brake, control, ignition, and electrical systems as well as nomenclature, preventive maintenance, engines, propellers, and related publications.

**Lecture:** 3 hours per week

**AEFT-206 Flight Instructor Ground School**  
3 Credits

This course covers the required areas of instructor knowledge and is designed to aid the student in passing the appropriate FAA knowledge tests. It includes the learning process and emphasizes elements of effective communication. Methods of teaching and communicating are studied and practiced, as well as how to evaluate and critique through written and oral processes. It includes practice in classroom, one-on-one, and team teaching.

**Lecture:** 3 hours per week

**AEFT-230 Commercial Pilot Helicopter Stage IV**  
3 Credits

This course provides information for the student to continue to develop the aeronautical skill and experience necessary to meet the requirements for the Commercial Pilot Certificate with a Rotorcraft category rating.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**AEFT-232 Instrument Pilot Helicopter Stage V**  
3 Credits

This course provides training in instrument flight procedures in preparation for the helicopter instrument rating.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**AEFT-234 Flight Alternate II**  
1 Credit

This course provides additional aircraft flight time to allow the advanced student additional time to increase his/her skill or complete a course of study. Includes flight time and follow-up critique.

**Lecture:** 3 hours per week

**AEFT-240 Flight Instructor**  
3 Credits

This course prepares students for the Certified Flight Instructor rating. It includes flight time and critique.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**AEFT-242 Flight Instructor Instrument**  
2 Credits

This course provides the student with the knowledge, skill, and experience necessary to become an instrument instructor. It includes flight time and critique.

**Lecture:** 1 hour per week

**Lab:** 2 hours per week

## BACTERIOLOGY

**BACT-250 General Microbiology**  
4 Credits

This course is an introductory survey of microorganisms emphasizing bacteria as examples of all microorganisms and as models for all living organisms/cells in regard to structure, physiology, and reproduction. This is a fairly rigorous lab course requiring attendance to cover various lab skills of media use, culturing, slide-staining, use of lab materials, and processes relating to microorganisms. This course has applications to programs in life sciences, the medical health field, health sciences, agriculture, food industries, pharmaceutical industries, environmental science, and laboratory research.

**Lecture:** 3 hours per week

**Corequisite Lab:** 3 hours per week (BACT-250L)

**Recommended:** BIOL-100 or BIOL-115; CHEM-101

**GEM 4**

## BIOLOGY

**BIOL-100 Fundamentals of Biology**  
4 Credits

This course provides a general overview of evolution, the five kingdoms, DNA, cell structure, genetics, and human systems. BIOL-100 is designed to give non-biology majors a better understanding and appreciation of the living world. It is not intended as a preparation for BIOL-115 or BIOL-175.

**Lecture:** 3 hours per week

**Corequisite Lab:** 2 hours per week (BIOL-100L)

**GEM 4**

**BIOL-101** **Forestry Orientation**  
1 Credit

This course is an introduction to forestry and related natural resources management professions. Students will explore various career opportunities in natural resource management.

**Lecture:** 1 hour per week

**BIOL-115** **Introduction to Life Sciences**  
4 Credits

This course is an introduction to the fundamental principles that govern living organisms, including molecular biology, cell biology, homeostasis, reproduction, genetics, and evolution.

**Lecture:** 3 hours per week

**Corequisite Lab:** 3 hours per week (BIOL-115L)

**Recommended:** One year of high school biology or chemistry

GEM 4

**BIOL-170** **Introductory Foods**  
3 Credits

This course will cover the composition of food and the chemical and biological changes that occur in food preparation.

**Lecture:** 3 hours per week

**BIOL-170L** **Introductory Foods Lab**  
1 Credit

This course is a lab setting to explore the composition of food and the chemical and biological properties that occur in food preparation.

**Lab:** 2 hours per week

**BIOL-175** **Human Biology**  
4 Credits

This course provides a general overview of the structure, function, healthy maintenance, and common diseases of the human body. BIOL-175 is designed to give the non-biology major a better understanding and appreciation of the human body.

**Lecture:** 3 hours per week

**Corequisite Lab:** 3 hours per week (BIOL-175L)

GEM 4

**BIOL-207** **Concepts in Human Nutrition**  
3 Credits

This course offers instruction in basic nutrition concepts, current nutritional controversies, and food selection for individual needs. Topics covered include carbohydrates, fats, proteins, vitamins, minerals, energy balance, vegetarian diets, product labels and additives, life cycle needs, and diets for athletes. Individual dietary habits will be closely examined through a self-evaluation of personal diet studies. BIOL-207 provides important basic knowledge in making personal dietary decisions.

**Lecture:** 3 hours per week

**BIOL-221** **Forest Ecology (Same as BIOL-231)**  
4 Credits

This course is an introduction to the relationships among living and non-living components in the environment, including an examination of the processes which influence the distribution of plant and animal communities. This course exposes students to fundamental principles of ecology used in careers in natural resource management.

**Lecture:** 3 hours per week

**Corequisite Lab:** 3 hours per week (BIOL-221L)

**Prerequisite:** BIOL-115

**BIOL-227** **Human Anatomy and Physiology I with Cadaver**  
4 Credits

This course offers a homeostatic approach to the study of the human body from the level of the cell to organ systems with emphasis on normal structure and function, as well as selected physiological imbalances. Systems covered include integument, skeletal, muscular, and nervous. It is designed primarily for students enrolled in health-related fields. Human Anatomy and Physiology will give students a strong background in the fundamentals of structure and function of the body. All aspects of life processes will be covered in a manner that should interest students wishing to take a science elective, as well as those in the health-related areas. The laboratory sessions require preserved cat dissection and identification of anatomical structures on a prosected cadaver.

**Lecture:** 3 hours per week

**Corequisite Lab:** 3 hours per week (BIOL-227L)

**Recommended:** BIOL-100 or BIOL-175

GEM 4

**BIOL-228** **Human Anatomy and Physiology II with Cadaver**  
4 Credits

This course is a continuation of BIOL-227. Systems covered include cardiovascular, digestive, urinary, respiratory, and reproductive, as well as the sense organs and metabolism. It is designed for students enrolled in health-related fields. This course gives students a strong background in the fundamentals of the structure and function of the body. All aspects of life processes will be covered in a manner which should interest students wishing to take a science elective, as well as those in the health-related areas. The laboratory sessions require preserved cat dissection and identification of anatomical structures on a prosected cadaver.

**Lecture:** 3 hours per week

**Prerequisite:** BIOL-227

**Corequisite Lab:** 3 hours per week (BIOL-228L)

**BIOL-231** **General Ecology (Same as BIOL-221)**  
4 Credits

This course shows relationships between living and non-living components of the environment. It examines the processes which influence the distribution of plant and animal communities. It provides an exposure to the fundamental principles of ecology in natural resource management. This course is designed for forestry and biology majors with applications for pre-agriculture, zoology, environmental science, and botany disciplines.

**Lecture:** 3 hours per week

**Corequisite Lab:** 3 hours per week (BIOL-231L)

**Prerequisite:** BIOL-100 or BIOL-115

**BIOL-251** **Principles of Range Resources Management**  
2 Credits

This course studies the development of range use, range resource management, rangeland vegetation types, current management issues, and the relationship of grazing use with other land uses and values.

**Lecture:** 2 hours per week

**Prerequisite:** BIOL-100 or BIOL-115

**BIOL-260** **Human Cadaver Prosection I**  
2 Credits

This course includes supervised cadaver dissections that will follow the sequence of gross anatomy studies observed in BIOL-227 and BIOL-228. Dissections for the semester will begin with a review of previous cadaver dissections. Cadaver dissection sequencing will



follow this general outline: torso, upper extremity, lower extremity, ventral cavities, head and neck, and finish with the dorsal cavities. Fall semester students will present a review of the muscle anatomy to the BIOL-227 students. This course is designed to improve competency in human gross anatomy.

**Lab:** 3 hours per week

### **BIOL-261**                      **Human Cadaver Prosection II** *2 Credits*

This course includes supervised cadaver dissections that will follow the sequence of gross anatomy studies observed in BIOL-227 and BIOL-228. Dissections will begin with a review of previous cadaver dissections. Cadaver dissection sequencing will follow this general outline: torso, upper extremity, lower extremity, ventral cavities, head and neck, and finish with the dorsal cavities. Spring semester students will present a review of the vascular anatomy to the BIOL-228 students. This course is designed to improve competency in human gross anatomy.

**Lab:** 3 hours per week

### **BIOL-290**                      **Principles of Wildlife Biology** *2 Credits*

This course introduces the principles of wildlife ecology including such topics as basic ecological laws, wildlife biology, and management of wildlife populations.

**Lecture:** 2 hours per week

**Prerequisite:** BIOL-100 or BIOL-115

**Recommended:** ZOOL-202 or BTNY-203

## **BOTANY**

### **BTNY-203**                      **General Botany** *4 Credits*

This course is an introduction to the plant kingdom starting with the bluegreen algae or cyanobacteria and progressing in an evolutionary fashion through gymnosperms and angiosperms. When possible, each group is related to the higher plants. The course is designed for individuals pursuing a degree in biology, botany, agriculture, or forestry, and for others interested in a survey of the plant kingdom.

**Lecture:** 3 hours per week

**Corequisite Lab:** 3 hours per week (BTNY-203L)

**Recommended:** BIOL-100 or BIOL-115

**GEM 4**

### **BTNY-241**                      **Systematic Botany** *4 Credits*

This course offers instruction in plant identification focusing on local gymnosperms and spring angiosperms using a recognized botanical key. The course includes field trips and a plant collection. It is designed for students pursuing a degree in biology, botany, or forestry and for those interested in the identification of local plants.

**Lecture:** 3 hours per week

**Corequisite Lab:** 3 hours per week (BTNY-241L)

**Recommended:** BIOL-100 or BIOL-115

**GEM 4**

## **BUSINESS ADMINISTRATION**

### **BUSA-100**                      **Digital Literacy in Business** *3 Credits*

This course provides the tools required to use technology in the

workplace. Students will gain proficiency in commonly used business programs such as databases and spreadsheets, as well as word processing and presentation software. Students will examine management information software (MIS) and its impact on organizational management. This course emphasizes business computer terminology, and the use of computer hardware, networking, and Internet concepts in business. The ethical implications of computing, such as security, privacy, identity theft, and the social implication of information sharing will be given particular consideration.

**Lecture:** 3 hours per week

### **BUSA-101**                      **Introduction to Business** *3 Credits*

This course is an introductory overview of the organization, functions, and activities of business in contemporary society. Emphasis is placed on the terminology necessary to understanding business principles and practices. This course also includes an exploration of business environments, human resources, management, marketing management, finance, management information tools, and international marketing. Focus is on critical factors essential to understanding the interdependence between different facets of business operations. This course is useful for those who are considering a career in business or who want an overview of what the study of business encompasses.

**Lecture:** 3 hours per week

**Recommended:** MATH-025

### **BUSA-180**                      **Personal Finance** *1 Credit*

This course is designed to empower students to analyze and develop their own personal financial plan. Students will be challenged to develop solid financial management skills through effective tax and savings strategies. Various financing options for large purchases such as automobiles and housing will also be discussed, along with developing techniques for controlling consumer credit. Students will learn how to evaluate different insurance options including life, health, and disability insurance. This course will also include some basic stock market strategies, including the choice to invest in stocks, mutual funds, or bonds.

**Lecture:** 15 hours

### **BUSA-211**                      **Principles of Management** *3 Credits*

This course provides an overview of theories and practices of management. Topic areas include the evolution and scope of management and the universal functions of management including planning, organizing, directing, staffing, controlling, coordinating, and delegating. Emphasis is also placed on the art of negotiating, leadership skills, team performance and productivity, and creative problem solving. This course fosters an awareness of the operational skills and administrative activities of managers, and it also helps in upgrading management skills.

**Lecture:** 3 hours per week

### **BUSA-221**                      **Principles of Marketing** *3 Credits*

This course is designed to provide an overview of marketing segments and environments, and marketing mixes. Issues relating to product, promotion, pricing, and distribution are discussed. This course promotes an awareness of the operational and administrative activities of marketing managers; it also helps in upgrading marketing skills.

**Lecture:** 3 hours per week

**BUSA-234**

3 Credits

**Ethical Conduct in Business**

This course introduces basic business ethical concepts, principles, and examples. Topics focus on solving moral dilemmas and introduce the stakeholder and issues management methods as a strategic and practical way for applying ethical reasoning in the workplace. Emphasis is placed on establishing solid decision criteria, moral creativity, and responsibility in ethical reasoning. This course also fosters an awareness of corporate responsibility in advertising, product safety and liability, and the environment. Timely ethical issues such as globalization, discrimination, sexual harassment, and whistle-blowing will be discussed as they relate to the workplace.

**Lecture:** 3 hours per week

**BUSA-240**

3 Credits

**Computer Systems and Business Applications**

This course provides applied instruction using computer systems and Microsoft Office suite application software within the business environment. The course includes both lecture and hands-on learning and emphasizes practical concepts of file management; the creation of documents using word processing, spreadsheets, databases, and presentation software; use of the Internet to access and retrieve data; and how various software components work together efficiently and effectively. This course is based on hardware and software that uses the Windows operating system.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-025 or an appropriate score on a placement test

**Recommended:** BUSA-100 or CS-100

**BUSA-251**

3 Credits

**Business Statistics**

This course introduces techniques used to describe and analyze data through the framework of business problems and applications. The course focuses on correct use of statistical terminology, descriptive statistics, basic sampling methods, probability and sampling distributions, interval estimates, hypothesis testing, analysis of variance, correlation and regression analysis. Software is used to analyze business problems and emphasis is placed on the interpretation and critical evaluation of the output.

**Lecture/Lab:** 3 hours per week

**Prerequisite:** MATH-130, MATH-143, or MATH-147 or an appropriate score on a placement test

**BUSA-265**

3 Credits

**Legal Environment of Business**

This course provides an introduction to the areas of law including contracts and torts which apply most closely to businesses.

**Lecture/Lab:** 3 hours per week

**BUSA-271**

4 Credits

**Statistical Inference and Decision Analysis**

This course is an introduction to statistical methods used to describe and analyze data. It emphasizes recognizing types of problems and their solutions, and provides the student with an understanding of probability, decision theory, confidence intervals, sampling, hypothesis testing, correlation, regression, and nonparametric techniques. This course is a required course in the Business Administration program. Credit is not allowed for both BUSA-271 and BUSA-251 or MATH-253.

**Lecture/Lab:** 4 hours per week

**Prerequisite:** MATH-130, MATH-143, or MATH-147 or an appropriate score on a placement test

**BUSINESS LEADERSHIP**
**BLDR-105**

3 Credits

**Customer Service**

This course gives participants the foundations for the skills and knowledge necessary to work effectively with customers. Topics include customer behavior, use of technology, diversity in customers, managing stress and time, ways to encourage customer loyalty, and how to communicate effectively with customers.

**Lecture:** 3 hours per week

**BLDR-110**

3 Credits

**Supervisory Management**

This course provides participants with an understanding of the management functions supervisors must perform at work. Participants will receive the knowledge and skills they will need to help their organization meet today's challenges and create value for their employees.

**Lecture:** 3 hours per week

**BLDR-120**

3 Credits

**Financial Business Applications**

This course will lead to the development of effective financial business concepts with emphasis on 10-key computations, banking concepts, payroll, retail computation, and time value of money.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-015 or an appropriate score on a placement test

**BLDR-122**

3 Credits

**Leadership**

This course gives students the skills and tools necessary to begin or enhance his or her role as an effective leader. Students will learn how to motivate staff, implement mission and core values, demonstrate ethical behavior, identify personal leadership style, and examine ways to manage change. Students will also learn how to facilitate employee development, coach others, and deal with conflict.

**Lecture:** 3 hours per week

**BLDR-132**

3 Credits

**Employee Benefits and Compensation**

This course focuses on the various components that make up a total employee compensation package. Base pay, merit pay, and variable pay programs are covered. Students examine benefits including government regulations, group welfare plans, pension plans, and flexible benefit plans. Students will also explore the impact of current trends.

**Lecture:** 3 hours per week

**BLDR-150**

3 Credits

**Health Information Technology**

This course introduces students to the general components of the content, use, and structure of health care data and the health information profession. Students will build basic skills in the compilation, processing, and maintenance of health records in accordance with the standards and regulations governing these functions and the use of technology.

**Lecture:** 3 hours per week

**BLDR-214**

3 Credits

**Budget and Finance**

This course examines the methods of budgeting and financing of an organization. Topics include financial statement analysis, basic accounting terminology, working capital management, and budget and trend analysis.

**Lecture:** 3 hours per week



**CARP-143** **Blueprints for Carpenters**  
3 Credits

This course covers detailed interpretations of both residential and commercial blueprints, specific engineered shop drawings, models, sketches, and other representation of construction projects. Students will learn to identify and use critical building information contained in the plans, including accurate dimensioning and the meanings of architectural notations and symbols, especially as they apply to the construction of NIC's annual Really Big Raffle house, the Carpentry program's main yearly class project. Related and required municipal building codes are thoroughly covered as they apply to the raffle house construction. Classroom time includes a heavy construction math emphasis as the class does materials take-offs from a variety of plans and creates a materials list and budget for the raffle house. Laboratory time is spent practicing house layout procedures with a variety of plans, especially the current project house plans. On-site, the raffle house is located and laid out and preparations are made for excavation. As time permits, through the semester students independently plan, sketch, and lay out smaller projects and side jobs around the NIC campus and local Coeur d'Alene community.

**Lecture:** 2 hours per week

**Lab:** 2 hours per week

**Prerequisites:** CARP-141 and CARP-142

**Corequisites:** CARP-144, CARP-145, CARP-146, and CARP-147

**Note:** This course is open to all students with instructor permission.

**Recommended:** CARP-144 for non-program students

**CARP-144 Construction Materials, Equipment, and Methods I**  
3 Credits

This course covers a broad range of both current and timeless construction materials and methods with emphasis on problem solving, tool savvy, and building techniques directly applicable to carpentry work on a residential construction site. Classroom curriculum includes a text and special calculator, classroom lecture, after-class research and assignments, field trips, websites, and visitors from the community and industry. Laboratory time consists primarily of building NIC's Really Big Raffle house, with other projects around the NIC campus and local Coeur d'Alene community added as time permits. Special attention is given to all construction safety issues, especially tool use and OSHA standards. Sustainable, energy efficient green building practices are infused into all course curriculum.

**Lecture:** 2 hours per week

**Lab:** 2 hours per week

**Prerequisites:** CARP-141 and CARP-142

**Corequisites:** CARP-143, CARP-145, CARP-146, and CARP-147

**Note:** This course is open to all students with instructor permission.

**Recommended:** CARP-143 for non-program students

**CARP-145** **All Things Concrete**  
2 Credits

This course is designed to impart knowledge about the characteristics of concrete as a building material, and its many forms and uses in construction. Concrete's chemical composition, specific terminology, estimating methods, and common related building codes are thoroughly covered. Aspects of site preparation, including soils and excavation knowledge, are also covered. This course is intended to give students the skills and knowledge to construct standard forms for footings, foundation stem walls, flatwork, and stairs. Skills and methods taught in class are practiced as students construct the required concrete forms and then place the concrete

for NIC's annual Really Big Raffle house as part of CARP-147 - Residential Construction Lab I. Also covered are concrete's related products, including code required steel reinforcement, concrete masonry units (CMU's), insulated concrete forms (ICF's), and decorative concrete products such as stamped and colored concrete, manufactured stone veneers, bricks, blocks, and others. Course curriculum is delivered through classroom lecture, independent student research, class field trips, and cogent Internet websites on the carpentry classroom's big screen.

**Lecture:** 4 hours per week

**Prerequisites:** CARP-141 and CARP-142

**Corequisite:** CARP-147

**Recommended:** CARP-143 and CARP-144

**CARP-146** **Framing Applications**  
2 Credits

This course will teach students how to frame a residential structure from the foundation to the roof. Framing terminology, dimensional and manufactured lumber, floor frame systems, wall framing, roof framing, and truss systems are fully covered. A special construction calculator is required and used to determine and lay out walls, rafter cuts, and stairs. Advanced green framing techniques are explored and emphasized. Classroom topics include applicable building codes pertaining to framing, an array of available fastener systems, commercial metal stud framing, balloon framing, post and beam framing, sustainable green building practices, and the latest and greatest in construction methods. Skills, methods, and techniques taught in the classroom are practiced on NIC's annual "Really Big Raffle" house as a part of CARP-147 - Construction Methods Lab I.

**Lecture:** 2 hours per week

**Lab:** 4 hours per week

**Prerequisites:** CARP-141, CARP-142, and CARP-145 or instructor permission

**Corequisites:** CARP-143, CARP-144, and CARP-147

**CARP-147** **Construction Methods Lab I**  
5 Credits

This course is an on-site, hands-on laboratory application of all student learning outcomes from previous and corequisite carpentry courses. There is heavy and frequent tool and equipment use, climbing of scaffolds and ladders, caring for lumber and other building materials, and working in any kind of weather. Safety issues and OSHA standards are practiced daily. Students will build NIC's annual "Really Big Raffle" house, with time made for other smaller projects and side jobs benefitting the NIC campus and the local Coeur d'Alene community. Work is most often completed by small groups of students using their own basic tools with ample opportunity for both leadership and team player roles. Emphasis is placed on real-world construction industry demands for critical thinking, problem solving, positive work ethic, and teamwork. Carpentry students work alongside hired professional subcontractors also working on the house through its construction stages, starting with site preparation and excavation, through concrete footings and foundation, ending the term with a framed house.

**Lab:** 10 hours per week

**Prerequisites:** CARP-141 and CARP-142, or instructor permission

**Corequisites:** CARP-143, CARP-144, CARP-145, CARP-146

**CARP-154** **Building Science**  
3 Credits

This course considers and studies building structures as complete systems that can be built to perform predictably. Classroom time

will cover issues surrounding building science, including but not limited to types and strengths of construction materials, insulation, ventilation, rating and testing programs for building sustainability and livability and “green” building best practices. Special attention is paid to required codes and construction techniques as they apply to the carpentry program’s class project, NIC’s annual “Really Big Raffle” house. The laboratory component of CARP-154 will reinforce classroom building science theory with activities that center around completing the building envelope, including siding and window installation, air-infiltration sealing, and making way for professional subcontractors hired to complete the main house systems. Students will have ample opportunity to plan, observe and participate in all testing and inspection procedures, as well as work alongside the hired subs as the “building science” specific to the raffle house progresses. Classroom topics will closely precede/follow the actual activities and projects at the project house.

**Corequisite:** CARP-155, CARP-156, CARP-157, and CARP-158 are required for students in the Carpentry program

**Note:** This course is open to all students with instructor permission.

### **CARP-155 Construction Materials and Methods II** 3 Credits

This course covers the broad range of both current and timeless construction materials and methods introduced in CARP-144. Emphasis remains on problem solving, tool savvy and building techniques directly applicable to carpentry work on a construction site, but now especially as it relates to interior and exterior finish work, and building science topics. Classroom curriculum includes text and special calculators, classroom lecture, after-class research and assignments, field trips, on-line research, and visitors from the community and industry. Laboratory time continues to primarily consist of building, but especially finishing, NIC’s annual “Really Big Raffle” house. Other projects around the NIC campus and local Coeur d’Alene community are added as time permits. Special attention is given to construction safety issues, especially tool use and OSHA standards. Sustainable, energy efficient green building practices are infused into all course curriculum.

**Lecture:** 2 hours per week

**Lab:** 2 hours per week

**Corequisite:** CARP-154, CARP-156, CARP-157, and CARP-158

**Prerequisite:** CARP-143, CARP-144, CARP-145, CARP-146, and CARP-147

### **CARP-156 Exterior Finish Carpentry** 2 Credits

This course applies exterior building finish theory from other or previous CARP courses (CARP-155 and entire first semester carpentry classes), directing students’ mental and physical efforts at the program project “Really Big Raffle” house. Class time will deal with which and how much specific exterior building materials will be bought and how the class will install them. Particular emphasis will be placed on applicable codes and covenants, strong building science and the most current best construction practices. Main theory and activities include closing the building envelope, siding and window installation, roofing, exterior trim, concrete flatwork prep, decks and whatever else is required to complete the project house’s exterior, making it ready for the painter (hired subcontractor) and the “Really Big Raffle.”

**Lecture:** 2 hours per week

**Lab:** 4 hours per week

**Corequisite:** CARP-154, CARP-155, CARP-157, and CARP-158

**Prerequisite:** CARP-143, CARP-144, CARP-145, CARP-146, and CARP-147

### **CARP-157** 2 Credits

### **Interior Finish Carpentry**

This course applies interior building finish theory from other or previous CARP courses (CARP-155 and entire first semester carpentry classes), directing students’ mental and physical efforts at the the program project “Really Big Raffle” house. Class time will deal with which, and how much, specific interior finish materials will be bought and how the class will install them. Particular emphasis will be placed on applicable codes and covenants, strong building science and the most current best construction practices. Main theory and activities include prepping for sheetrock installation and painting (by others), learning about multiple construction trim tools and methods, hanging and trimming all doors, observe/assist the cabinet installation, lay out and construct stairs as well as whatever else is required to complete the project house’s interior making it ready for the painter (hired subcontractor) and the “Really Big Raffle.”

**Lecture:** 2 hours per week

**Lab:** 4 hours per week

**Corequisite:** CARP-154, CARP-155, CARP-156, and CARP-158

**Prerequisite:** CARP-143, CARP-144, CARP-145, CARP-146, and CARP-147

### **CARP-158** 5 Credits

### **Construction Methods Lab II**

This course is an on-site, hands-on laboratory application of all student learning outcomes from previous and corequisite carpentry courses. There is heavy and frequent tool and equipment use, climbing of scaffolds and ladders, caring for lumber and other building materials, and working in any kind of weather. Safety issues and OSHA standards are practiced daily. Students will be completing construction of NIC’s annual “Really Big Raffle” house, with time made for other smaller projects and side jobs benefiting the NIC campus and the local Coeur d’Alene community. Work is completed by individual and small groups of students using their own basic tools and ample opportunity for both leadership and team player roles. Emphasis is placed on real-world construction industry demands for critical thinking, problem solving, positive work ethic, and teamwork. Carpentry students work alongside hired professional subcontractors through the project house’s finishing construction stages, starting with final “pick-up” framing early in the spring semester. This relationship continues through siding, exterior finishing, interior door hanging and trimming. The term ends with a completed house ready for the “Really Big Raffle” raffle.

**Lab:** 10 hours per week

**Corequisite:** CARP-154, CARP-155, CARP-156, and CARP-157

**Prerequisite:** CARP-143, CARP-144, CARP-145, CARP-146, and CARP-147

### **CARP-251** 4 Credits

### **Carpentry Management I**

This course consists of weekly theory and field study. Students will obtain experience in planning and management of various construction projects that are part of the program’s laboratory curriculum. Cost and materials estimating, advanced math concepts applied to construction projects, worksite issues/ethics, advanced communication skills, and construction scheduling and estimating are applied under supervision. In addition, advanced specialty construction skills will be addressed according to students’ individual preferences. Weekly seminars will provide opportunities for students to share experiences, debrief, and obtain faculty assistance in applying theory concepts to field experience.

**Prerequisite:** CARP-141, CARP-142, CARP-143, CARP-144, CARP-145, CARP-146, CARP-147, CARP-154, CARP-155, CARP-156, CARP-157 and CARP-158

**CARP-252**                      **Carpentry Management II**  
**4 Credits**                      This course provides students with opportunities to further their skills in advanced carpentry techniques and to advance their supervisory skills through on-site supervision of students in the first-year Carpentry program. Students will continue to meet weekly to share experiences, debrief, and obtain faculty assistance in applying theory concepts to field experience. During their supervised experience, students will be evaluated on their performance of program outcomes.  
**Prerequisite:** CARP-141, CARP-142, CARP-143, CARP-144, CARP-145, CARP-146, CARP-147, CARP-154, CARP-155, CARP-156, CARP-157, and CARP-158

## CHEMISTRY

**CHEM-100**                      **Concepts of Chemistry I**  
**4 Credits**  
 This course is an introduction to chemistry as it relates to modern technological society. It is designed for non-science majors who would like to learn about chemistry in the context of their everyday lives. Upon completion of CHEM-101, CHEM-100 will count as elective science credits only and will not satisfy core lab science credits.  
**Lecture:** 3 hours per week  
**Corequisite Lab:** 3 hours per week (CHEM-100L)  
**GEM 4**

**CHEM-101**                      **Introduction to Essentials of General Chemistry I**  
**4 Credits**  
 This course is a survey of the basic concepts of inorganic chemistry that includes quantitative concepts and development of problem solving methods. This course is designed for general education majors. It can be used by students as preparation for CHEM-111. It also satisfies chemistry requirements for allied health majors.  
**Lecture:** 3 hours per week  
**Corequisite Lab:** 3 hours per week (CHEM-101L)  
**Prerequisite:** MATH-025 or an appropriate score on a placement test  
**GEM 4**

**CHEM-105**                      **General, Organic, and Biochemistry**  
**4 Credits**  
 This course provides a general overview of inorganic, organic, and biological chemistry topics with a health care emphasis. CHEM-105 is designed to provide necessary chemistry background for subsequent courses in the health care field.  
**Lecture:** 3 hours per week  
**Corequisite Lab:** 3 hours per week (CHEM-105L)  
**Prerequisite:** MATH-025 or an appropriate score on a placement test  
**GEM 4**

**CHEM-111**                      **Principles of General College Chemistry I**  
**5 Credits**  
 This course is a study of matter and its interactions, including properties of matter, changes that it undergoes, and energy changes that accompany these processes. Emphasis is on concepts and problem solving, however many applications are examined. Students entering CHEM-111 are expected to have some chemistry background. This may be satisfied by completing at least one year of high school chemistry or CHEM-101.  
**Lecture:** 4 hours per week  
**Corequisite Lab:** 3 hours per week (CHEM-111L)  
**Prerequisite:** MATH-108 or an appropriate score on a placement test  
**GEM 4**

**CHEM-112**                      **Principles of General College Chemistry II**  
**5 Credits**  
 This course is a continuation of a study of matter and its interactions, including properties of matter, changes that it undergoes, and energy changes that accompany these processes. Emphasis is on concepts and problem solving; however, many applications are examined.  
**Lecture:** 4 hours per week  
**Corequisite Lab:** 3 hours per week (CHEM-112L)  
**Prerequisites:** CHEM-111 and CHEM-111L  
**GEM 4**

**CHEM-253**                      **Quantitative Analysis**  
**5 Credits**  
 This course is the first course in the study of analytical chemistry for scientists. Students who are majoring in the physical or life sciences may take this course as an introduction to the basic concepts of quantitative analysis.  
**Lecture:** 3 hours per week  
**Corequisite Lab:** 6 hours per week (CHEM-253L)  
**Prerequisite:** CHEM-112

**CHEM-275**                      **Carbon Compounds**  
**3 Credits**  
 This course introduces students to aspects of organic chemistry important to life sciences. The course covers the structure, nomenclature, and physical properties of organic compounds.  
**Lecture:** 3 hours per week  
**Prerequisite:** CHEM-101 or CHEM-111

**CHEM-277**                      **Organic Chemistry I**  
**3 Credits**  
 This course is the first course in a two-semester sequence of a comprehensive study of the principles and theories of organic chemistry emphasizing the properties, structure, synthesis and reactions of organic compounds.  
**Lecture:** 3 hours per week  
**Prerequisite:** CHEM-112  
**Recommended:** CHEM-278

**CHEM-278**                      **Organic Chemistry I Lab**  
**1 Credit**  
 This course is the laboratory that accompanies CHEM-277. It is an introduction to organic laboratory techniques and spectroscopy, including organic compound synthesis.  
**Lab:** 3 hours per week  
**Pre/Corequisite:** CHEM-277

**CHEM-287**                      **Organic Chemistry II**  
**3 Credits**  
 This course is a continuation of CHEM-277 and includes an introduction to biological molecules.  
**Lecture:** 3 hours per week  
**Prerequisite:** CHEM-277  
**Recommended:** CHEM-288

**CHEM-288**                      **Organic Chemistry II Lab**  
**1 Credit**  
 This course is the laboratory that accompanies CHEM-287. It is a continuation of organic synthesis and spectroscopy.  
**Lab:** 3 hours per week  
**Prerequisite:** CHEM-278  
**Pre/Corequisite:** CHEM-287

**CHILD DEVELOPMENT****CHD-110**  
3 Credits**Child Health and Safety**

This course introduces the student to essentials in creating a safe and healthy environment for young children, birth to age 8, both typically and atypically developing. Students will explore both the indoor and outdoor environment and learn how to promote health and nutrition in the classroom, prevent illnesses and reduce injuries, and create mentally healthy environments.

**Lecture:** 3 hours per week

**CHD-134**  
3 Credits**Infancy through Middle Childhood**

This course provides an introductory overview of human development from conception through middle childhood. Physical, cognitive, and social-emotional development of typically and atypically developing children will be examined in the context of biological, historical, cultural, and familial influences.

**Lecture:** 3 hours per week

**GEM 6**

**CHD-150**  
3 Credits**Professional Partnerships -  
Families, Schools, and Community**

This course will cover the essentials for professionally managing an effective early care and education program or classroom by developing partnerships among staff, family, and community members. Topics include the design and implementation of contracts and policies, record keeping, communication strategies, family involvement, professional affiliations, and the importance of collaboration to supporting typically and atypically developing children and their families. Students will become aware of the impact personal attitudes and philosophies have on building partnerships, solving problems, and resolving conflicts. Students will become familiar with the NAEYC Code of Ethical Conduct and its practical application.

**Lecture:** 3 hours per week

**CHD-165 CDA Professional Portfolio Development**  
1 Credit

This course is designed as the final step for individuals working in early childhood programs who are preparing to apply for their national Child Development Associate (CDA). Participants will be guided through the development of the final requirements for the Child Development Associate (CDA) credential, including: professional portfolio completion, collection of required resources, writing of six reflective statements of competence, administration/summary/reflection of parent questionnaires, and development of a professional philosophy statement as outlined by the CDA application requirements. Students will also prepare for their CDA verification visit, online exam and will finalize their application to the National Council for Professional Recognition.

**Lecture:** 1 hour per week

**Pre/Corequisite:** CHD-110, CHD-134, CHD-150

**CHD-171**  
3 Credits**Early Childhood Curriculum**

This course will examine the critical role of curriculum in meeting the physical, social, emotional, and cognitive needs of typically and atypically developing children from birth through age 8. Strategies for creating a child-centered approach to curriculum will be practiced including the use of space, materials, relationships, and routines. Students will gain experience in observing, assessing, and documenting children's ideas and works. Self reflection and hands-

on learning are vital components of this course. Some class sessions will be held at the NIC Children's Center to facilitate this process.

**Lecture:** 3 hours per week

**Prerequisite:** CHD-134

**CHD-235**  
3 Credits**Observation and Assessment**

This course provides students with the skills necessary to observe, record, and interpret the behavior of young children.

**Lecture:** 2 hours per week

**Lab:** 2 hours per week

**Prerequisite:** CHD-134

**CHD-243**  
3 Credits**Early Childhood Education**

This course introduces students to the field of early childhood education. Developmentally appropriate practices for programs serving both typically and atypically developing children birth to age 8 are examined. Topics include curriculum, play theory, literacy, behavior guidance, early care, education programs in the U.S. and internationally, primary grade education, and working with families.

**Lecture:** 3 hours per week

**CHD-254**  
3 Credits**Child Guidance Theory**

This course examines techniques for understanding and effectively guiding the behavior of young children, both typically and atypically developing. Included are skills for managing classroom situations, encouraging conflict resolution, effective use of praise, preventing problems, promoting self esteem, and setting individualized goals for young children in a classroom setting.

**Lecture:** 3 hours per week

**Recommended:** CHD-134

**CHD-298A**  
3 Credits**Child Development Practicum A**

This course offers a supervised experience working with young children in the NIC Children's Center and is the first of three practicum experiences for students in the A.S. Child Development program. Students gain practical experience working with mentor teachers, observing and assessing classroom environments, and learning how to meet the individual needs of children with varying abilities.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**Prerequisite:** CHD-134

**CHD-298B**  
3 Credits**Child Development Practicum B**

This course offers continued experience working with young children in a supervised setting. Emphasis is on observing young children, using observation as a tool for creating classroom curriculum, and partnering with mentor teachers to practice reflective teaching. Students are encouraged to continue their lab experience at the NIC Children's Center or at a NIC Head Start program.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**Prerequisites:** CHD-134 and CHD-298A

**CHD-298C**                      **Child Development Practicum C**  
*3 Credits*

This course is the final experience working directly with young children in a supervised setting in the NIC Children's Center, NIC Head Start program, or in an approved off-campus setting. During practicum lab, students will continue to practice skills in team teaching, curriculum development, guidance techniques, and working with young children of varying abilities. Practicum C seminars will focus on professional roles and responsibilities in early childhood education and students will create a professional portfolio.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**Prerequisites:** CHD-134 and CHD-298A

**Pre/Corequisites:** CHD-298B

**CHD-298D**                      **Child Development Practicum D**  
*3 Credits*

This course is intended primarily for those students who have completed degree or certificate programs, but need ongoing college credit for professional development purposes. This may include those professionals seeking CDA Certificate renewal, Head Start staff, and community early childhood teachers who have already completed child development courses at NIC but need further skill and development in a particular domain. Topics of study and application will be individualized according to student and program need.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**Prerequisite:** CHD-134

**CINEMA ARTS****CINA-126**                      **Film and Culture**  
*3 Credits*                      **(same as HUMS-126)**

This course presents films as artifacts of culture and history, examines North American and foreign films, and evaluates selected critical readings to promote meaningful comparative analysis. It focuses on becoming more critically aware of the rich and diverse forms of cinematic expression, developing an appreciation for responses to visual imagery, and using basic concepts of film theory and cultural analysis to enrich the viewing experience. The concepts and methods introduced have applications to careers in broadcasting, graphic design, public relations, journalism, and corporate communications.

**Lecture:** 2 hours per week

**Corequisite Lab:** 1 hour per week (CINA-126L)

**GEM 5**

**COLLEGE SKILLS****CSC-013**                      **Reading Comprehension and**  
*3 Credits*                      **Vocabulary Development**

This course is designed to enhance reading and vocabulary skills with an emphasis on comprehension of expressed and implied main ideas. The course also focuses on developing vocabulary skills including contextual clues, synonyms, antonyms, and affixes. Enrollment is based on an ACT Reading score of 0-18 or an SAT Reading score of 0-460. This course does not fulfill degree requirements.

**CSC-043**                      **Reading in Applied Technology**  
*1 Credit*

This course is designed to improve reading skills when using technical materials. This course emphasizes learning for critical and efficient reading, including reading for information, following directions, critical reading, checking information, drawing conclusions, vocabulary acquisition, and comprehending graphics in technical materials.

**CSC-100**                      **College Transition**  
*1 Credit*

This course is designed to provide the student with a general introduction and transition to the college experience. It will assist students in developing a meaningful education plan in accordance with their personal values, needs, and career goals. This course will orient students to the processes, resources, and multiple services available at North Idaho College.

**Lecture:** 1 hour per week

**CSC-104**                      **College Reading**  
*2 Credits*

This course is a college-level reading course designed for the skilled reader who would like to learn strategies for improving reading comprehension, enhancing textbook reading skills, and developing flexible reading rates. Reading techniques are applied to reading assignments in content areas such as sciences, social sciences, and humanities. The course is taught using lecture, computer-aided instruction, and small group participation.

**Lecture:** 2 hours per week

**Prerequisite:** College-level reading ability verified with appropriate placement test scores

**CSC-105**                      **College Study Skills**  
*2 Credits*

This course provides instruction and practical study techniques essential for academic success. This course emphasizes managing time, taking notes, reading textbooks efficiently, and preparing for and taking exams.

**Lecture:** 2 hours per week

**CSC-106**                      **College Internet Skills**  
*1 Credit*

This course covers the basics of taking an interactive course via the Internet. Students will learn how to use NIC's learning management system for Internet classes. This involves developing skills in the use of email, online discussion boards, World Wide Web access, equipment needs, and navigating an online course. Students will analyze the difference between online and traditional courses to evaluate his or her learning style in order to develop good academic skills to succeed in online classes. This course provides an excellent opportunity to learn how to navigate classes for future Internet coursework.

**Lecture:** 16 hours

**CSC-108**                      **Tutoring Skills**  
*1 Credit*

This course provides an introduction to learning theories, styles, and techniques as related to tutoring. Topics will include active listening, effective questioning, diversity awareness, implementation of tutoring strategies, and assessment of learning styles and study skills. Participatory classroom activities will be included to develop communication, critical thinking, and problem solving skills. This course provides participants with leadership and communication skills that may be applied throughout the college experience. Students do not need to be a peer tutor to be enrolled in this course.

**Lecture:** 16 hours



**CSC-109**                      **TRIO Peer Tutoring, Level I**  
*1 Credit*

This course is designed to prepare peer tutors for their role as a tutor. This course provides instruction in practical tutoring techniques and processes essential for tutoring success. Students will become knowledgeable about tutoring responsibilities, tutoring methodology, learning differences, boundaries, and assistive technology. Experiential learning activities will be used to develop communication, critical thinking, problem solving skills, and diversity awareness.  
**Lecture:** 4 hours per day for 1 week

**CSC-110**                      **TRIO Peer Tutoring, Level II**  
*1 Credit*

This course is designed to prepare peer tutors for their role as tutors. This course provides instruction in practical tutoring techniques and processes essential for tutoring success. Students will become knowledgeable about tutoring methodology, leadership, adult learners, at-risk students, cultural differences, and advanced tutoring strategies. Experiential learning activities will be used to develop communication, critical thinking, problem solving skills, and diversity awareness.  
**Lecture:** 4 hours per day for 1 week  
**Prerequisite:** CSC-109 with a minimum grade of C

**CSC-112**                      **Student Leadership Development**  
*2 Credits*

This course is designed to prepare students for their role as leaders on campus. Strengths-based curriculum will help students identify their personal strengths in order to increase proficiency and confidence as leaders. Experiential learning activities will be used to develop leadership styles, communication skills, diversity awareness, and etiquette. Students will learn how these skills are an essential part of competent leadership on campus and in the community.

**CSC-113**                      **Resident Assistant Training**  
*1 Credit*

This course focuses on student development theory and its application in a college residence hall setting. The course provides an emphasis on the development of leadership styles, peer counseling techniques, crisis intervention, and interpersonal communication skills.

**CSC-114**                      **Career Development and Life Planning**  
*3 Credits*

This course provides students with the skills necessary to make informed career decisions including identifying and assessing individual interests, skills and abilities, values, and preferred job characteristics. Students will also examine the world of work, job search strategies, and current and future work trends.

**COLLISION REPAIR TECHNOLOGY**

**NOTE:** Course enrollment requires prior acceptance into the Collision Repair Technology program. Successful completion of each semester and/or permission of the instructor is required for enrollment in the next semester.

**ACRR-161**                      **Exterior and Interior Renovation**  
*1 Credit*

This course provides classroom introduction to basic automotive refinishing and primarily covers automotive detailing. Automotive finishes, products used, and techniques will be covered. Emphasis will be placed on prewash, exterior polish, and interior renovation of “live” customer vehicles. Health and safety issues will also be covered.  
**Lecture:** 6 hours per week for 2 weeks

**ACRR-162**                      **Fundamentals of Collision Repair**  
*4 Credits*

This course provides classroom introduction and discussion related to the fundamentals of collision repair, welding, trim and hardware, and exterior panel repair for automobiles. Vehicle construction and terminology, collision energy management, automotive fasteners, and bolt-on replacement parts will also be covered in addition to health and safety issues.  
**Lecture:** 6 hours per week for 7 weeks

**ACRR-163**                      **Damage Analysis and Small Dent Repair**  
*2 Credits*

This course provides classroom introduction and discussion to automotive refinishing related to straightening and repairing steel, body fillers and application techniques, analysis of damage, and appropriate repair strategies. Health and safety issues will also be covered.  
**Lecture:** 6 hours per week for 3 weeks

**ACRR-164**                      **Introduction to Paint Refinishing**  
*1 Credit*

This course provides classroom introduction and discussion related to automotive corrosion protection and application, and introduction to automotive painting fundamentals. Surface preparation, masking, finish identification, primers, and fundamentals of paint chemistry will also be covered. Health and safety issues will also be covered.  
**Lecture:** 6 hours per week for 3 weeks

**ACRR-165L**                      **Collision Repair Lab I**  
*6 Credits*

This course features hands-on shop experience in all phases of auto refinishing, gas metal arc welding, basic body panel repair techniques, fiberglass, and plastic parts repair. Mock-up vehicles as well as actual customer work will be utilized. Health and safety practices are promoted.  
**Lab:** 19 hours per week for 8 weeks

**ACRR-166L**                      **Collision Repair Lab II**  
*5 Credits*

This course is a continuation of the hands-on concepts covered in ACRR-165L and includes all phases of auto refinishing, gas metal arc welding, basic body panel repair techniques, fiberglass, and plastic parts repair. Mock-up vehicles as well as actual customer work will be utilized.  
**Lab:** 19 hours per week for 8 weeks

**ACRR-171**                      **Paint Refinishing Fundamentals**  
*3 Credits*

This course provides classroom introduction and discussion related to safety and the environment; refinish equipment; and color theory, application, tinting, and blending. MSDS, environmental laws, and material mixing will also be covered in addition to health and safety issues.  
**Lecture:** 6 hours per week for 5 weeks

**ACRR-172**                      **Damage Analysis and Estimating**  
*2 Credits*

This course provides classroom introduction and discussion related to vehicle construction and vehicle identification numbers (VIN), collision repair estimates, crash manuals, damage analysis, and introduction to measuring. Damage reporting, cooling systems, air conditioning, and interior analysis will also be covered in ad-

dition to health and safety issues.

**Lecture:** 6 hours per week for 4 weeks

**ACRR-173 Measurement and Structural Analysis**  
2 Credits

This course provides classroom introduction and discussion related to damage conditions, point-to-point measuring and three-dimensional measuring, and structural steel parts. Frame sectioning and vehicle body assembly will also be covered in addition to health and safety issues.

**Lecture:** 6 hours per week for 4 weeks

**ACRR-174 Surface Prep and Adhesive Bonding**  
1 Credit

This course provides classroom introduction and discussion related to adhesive bonding, and panel removal and installation will also be covered in addition to health and safety issues.

**Lecture:** 6 hours per week for 2 weeks

**ACRR-175L Collision Repair Lab III**  
5 Credits

This course features hands-on shop experience in all phases of auto refinishing, gas metal arc welding, basic body panel repair techniques, and fiberglass and plastic parts repair. Mock-up vehicles as well as actual customer work will be utilized. Health and safety practices are promoted.

**Lab:** 19 hours per week for 8 weeks

**ACRR-176L Collision Repair Lab IV**  
5 Credits

This course features hands-on shop experience in all phases of auto refinishing, gas metal arc welding, basic body panel repair techniques, fiberglass, and plastic parts repair. Mock-up vehicles as well as actual customer work will be utilized. Health and safety practices are promoted.

**Lecture:** 22.5 hours per week for 8 weeks

## COMMUNICATION

**COMM-101 Introduction to Speech Communication**  
3 Credits

This course introduces students to what communication is and how it affects human interaction. Emphasis is on public speaking with attention to audience analysis, organizational, and delivery skills. The controlled and supportive classroom environment is an ideal setting for students to practice and perfect those communication skills of effective speaking and critical listening valued in all professions, the community, and personal relations. It is, however, a complex discipline of reading, writing, research, and performance.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-099 or an appropriate score on a placement test

**Recommended:** ENGL-101 and college-level reading and writing abilities  
GEM 2

**COMM-103 Oral Interpretation**  
3 Credits

This course makes literature come alive through effective reading and interpreting is the goal of this course. Students will learn to select, analyze, and perform literary pieces including stories, plays, poems, and famous orations.

**Lecture:** 3 hours per week

**COMM-111 Interview Techniques**  
2 Credits

This course provides practical experience in the development of interviewing techniques for a variety of settings and career applications. The process is analyzed and practiced, including setting up, conducting, and assessing the interview. Students learn to design and carry out effective interviews through study and practice of the practical “do’s and don’ts” for several types of interviews. Skills gained are helpful to those pursuing careers in journalism, communications, law enforcement, psychology, oral history, and counseling. Use of an audio tape recorder is suggested.

**Lecture:** 3 hours per week for 14 weeks

**COMM-209 Argumentation**  
3 Credits

This course is an introduction to the principles and practices of argumentation as a form of communication. Analysis, reasoning, evidence, and refutation skills are stressed. It provides skills in reasoned argumentation and is useful for pre-law, business, and careers where logical analysis and structured reasoning is stressed.

**Lecture:** 3 hours per week

**Recommended:** COMM-101 and strong college-level reading and writing skills

**COMM-212 Nonverbal Communication**  
3 Credits

This course is an introduction to the basic concepts in the study of body language, symbols, and various means of communicating without using spoken language. The study of nonverbal communication will help students better understand how people communicate in relationships at work and at home, and may create an awareness of the student’s own nonverbal communication style.

**Lecture:** 3 hours per week

**COMM-220 Introduction to Intercultural Communication**  
3 Credits

This course is an introduction to cultural differences and their effects on communication. The course attempts to help students become more sensitive to the needs of people from other cultures with whom we interact. With more diversity in our country, and to create and maintain positive relationships with minimal hostility and friction, an understanding of how to communicate across cultures will prove to be a considerable asset. Communication competence with people of other cultures calls for a repertoire of communication skills rarely taught in any other college course.

**Lecture:** 3 hours per week

GEM 5

**COMM-233 Interpersonal Communication**  
3 Credits

This course is an introduction to the skills and concepts that impact how people deal on a one-to-one level within interpersonal relationships. Emphasis is on self-examination and understanding how “I communicate with others” and how that can be improved. Students will develop an understanding of how perception, identity and gender influence our communication. This is an excellent course for developing skills necessary for everyday life where relationships must be developed and maintained.

**Lecture:** 3 hours per week

GEM 6

**COMM-236 Small Group Communication**  
3 Credits

This course is designed to present the fundamentals of small

group communication in such a way that the student actually experiences the small group process and evaluates his/her own and others' behaviors for success. The course will combine theory and practical application.

**Lecture:** 3 hours per week

**COMM-252 Introduction to Public Relations**  
3 Credits

This course examines issues, tasks, and responsibilities of public relations practitioners in a variety of professional settings. Public relations is a strategic communication process that builds mutually beneficial relationships between organizations and their publics. This course will cover the theories and foundations of public relations and provide an overview of the principles, strategies, and practices of the profession. Legal and ethical issues facing public relations professionals will also be addressed. Multiple writing assignments address basic requirements of public relations professionals.

**Lecture:** 3 hours per week

**Prerequisites:** COMJ-121, COMJ-140, ENGL-101

**COMPUTER AIDED DESIGN  
TECHNOLOGY**

**NOTE: Course enrollment requires prior acceptance into the Computer Aided Design Technology program. Successful completion of each semester and/or permission of the instructor is required for enrollment in the next semester.**

**CADT-102A Technical Sketching-Architectural Applications**  
2 Credits

This course is an introduction to architectural design principles and applications including terminology and fundamentals, size and shape descriptions, projection methods, floor plans, elevation, views, and drawing reproduction processes.

**Lecture/Lab:** 3 hours per week

**CADT-104A CAD Graphics I-Architectural Applications**  
2 Credits

This course is an introduction to the components utilized in CAD technology. The primary focus will be on learning the fundamental capabilities of the current CAD program and how it applies to architectural design principles and applications.

**Lecture/Lab:** 6 hours per week

**CADT-104M CAD Graphics I-Mechanical Applications**  
2 Credits

This course is an introduction to the components utilized in Computer Aided Design (CAD) technology. The primary focus will be on learning the fundamental capabilities of the current CAD program and how they apply to mechanical design principles and applications. Concentrated efforts will be made to stress learning 2-D CAD commands and the importance of accuracy and clarity toward basic drawing solutions.

**Lecture/Lab:** 6 hours per week

**CADT-105 Descriptive Geometry**  
3 Credits

This course focuses on developing the knowledge and skills necessary for solving problems using descriptive geometry. Students will develop line projections, true size and shape of lines or planes, and piercing points of lines and planes in space. In addition, they will

develop skills in pattern development. 2-D CAD software will be used as the instructional platform. Concepts will be reinforced through hands-on activities that focus on theories discussed.

**Lecture:** 3 hours per week

**CADT-106A CAD Graphics II-Architectural Applications**  
2 Credits

This course focuses on learning the advanced capabilities of the current CAD program and how it applies to architectural design principles and applications. This course is a continuation of CADT-104A CAD Graphics I - Architectural Applications.

**Lecture/Lab:** 6 hours per week

**Prerequisite:** CADT-104A

**CADT-106M CAD Graphics II-Mechanical Applications**  
2 Credits

This course is a continuation of CADT-104M. The primary focus will be on learning advanced concepts of the current CAD program and how they apply to mechanical design principles and applications. Concentrated efforts will be made to stress learning CAD commands and the importance of accuracy and clarity toward basic drawing solutions.

**Lecture/Lab:** 6 hours per week

**Prerequisite:** CADT-104M

**CADT-109 Basic Mechanical Design**  
4 Credits

This course will focus on learning contemporary documentary procedures toward 2-D mechanical working drawings in accordance with current industry standards. Students will use 2-D CAD software as a design platform. Concentrated efforts will be made to stress the importance of accuracy and clarity in mechanical working drawings, procedures, and practices. Emphasis will also be placed on developing confidence and proficiency in the development of contemporary working drawings. In the lecture/lab environment students will be presented with hands-on assignments/projects to reinforce learning outcomes.

**Lecture/Lab:** 4 hours per week

**Prerequisites:** CADT-104M and CADT-106M or instructor permission

**CADT-131 Residential Architecture I**  
4 Credits

This course is an introduction to residential construction techniques including terminology, media, line conventions, architectural lettering, scaling, floor plans, elevations, dimensioning techniques and building codes. Emphasis is placed on architectural standards. Various architectural CAD software applications will be utilized.

**Lecture/Lab:** 5 hours per week

**Prerequisites:** CADT-106A or instructor permission

**CADT-133 Commercial Architecture I**  
2 Credits

This course is an introduction to commercial techniques including materials, equipment, fixtures, and building codes. Development of various working drawings will be included. Various architectural software applications will be utilized.

**Lecture/Lab:** 3 hours per week

**Prerequisite:** CADT-106A or instructor permission

**CADT-201** **Architectural Print Reading and Estimating***2 Credits*

This course is an introduction to print reading and interpretation, layout, terminology, materials, construction methods, dimensions, symbols, building codes, estimating techniques, and methods of preparing estimates.

**Lecture/Lab:** 2 hours per week

**CADT-202** **Residential Architecture II***4 Credits*

This course focuses on residential architectural standards, fixtures, floor plans, sections, elevations, stairs, roofs, foundations, and building codes. Primary focus is on wood construction techniques, terminology, and materials. Various architectural CAD software applications will be utilized.

**Lecture/Lab:** 5 hours per week

**Prerequisite:** CADT-131 or instructor permission

**CADT-203** **Commercial Architecture II***3 Credits*

This course focuses on commercial construction techniques including materials, equipment, fixtures, and building codes. Development of various working drawings will be included. Various architectural CAD software applications will be utilized.

**Lecture/Lab:** 4 hours per week

**Prerequisite:** CADT-133 or instructor permission

**CADT-204** **Residential Architecture III***4 Credits*

This course focuses on advanced residential architectural standards, fixtures, floor plans, sections, elevations, stairs, roofs, foundations, and building codes. Development of various working drawings will be included. Various architectural CAD software applications will be utilized.

**Lecture/Lab:** 5 hours per week

**Prerequisite:** CADT-202 or instructor permission

**CADT-205** **Commercial Architecture III***3 Credits*

This course focuses on advanced commercial construction techniques including materials, equipment, fixtures, and building codes. Development of various working drawings will be included. Various architectural CAD software applications will be utilized.

**Lecture/Lab:** 4 hours per week

**Prerequisite:** CADT-203 or instructor permission

**CADT-207** **Building Design Integration***2 Credits*

This course focuses on building design with the integration of design principles, structural components and the mechanical, electrical and plumbing systems. Development of various working drawings will be included. Various architectural software applications will be utilized.

**Lecture/Lab:** 3 hours per week

**Corequisite:** CADT-204 and CADT-205, or instructor permission

**CADT-250** **SolidWorks I***2 Credits*

This course is an introduction to SolidWorks and presents fundamental principles toward feature-based parametric modeling and design. Emphasis will be on using basic tools toward the creation of parts, assemblies, and drawings.

**Lecture/Lab:** 3 hours per week

**CADT-252** **SolidWorks II***2 Credits*

This course is a continuation of CADT-250 and presents more in-depth knowledge with feature-based parametric modeling and design. Emphasis will be on parts, assemblies, and drawings.

**Lecture/Lab:** 3 hours per week

**Prerequisite:** CADT-250

**CADT-253** **Industrial Processes***3 Credits*

This course introduces the product cycle theory in regard to Machine Control Processes via CAD/CAM/CAE methodology. CADT-253 is an exploratory/hands-on learning environment that includes visiting local industries to gain understanding of industrial processes and their role in the product cycle process. Students will be introduced to rapid-prototyping and produce rapid-prototype parts.

**Lecture:** 3 hours per week

**CADT-254** **Power Transmission***3 Credits*

This course is an introduction to kinematic analysis of mechanical mechanisms and the transmission of power. Using selected computer aided design programs, students will gain understanding of linkages, gears, cams, belts, and chain systems.

**Lecture:** 3 hours per week

**Prerequisites:** CADT-250, CADT-253, and MCTE-101 or an appropriate score on a placement test

**Corequisites:** CADT-257, MATH-143

**CADT-255 Geometric Dimensioning and Tolerancing***3 Credits*

This course builds on the knowledge learned in CADT-109. This course will focus on geometric dimensioning and tolerancing principles and standards as they relate to working drawings. Topics include, but are not limited to, symbols, datum selection, feature control frames, and related tolerances. Students will learn to interpret and apply geometric dimensioning and tolerancing standards to drawings.

**Lecture:** 3 hours per week

**Prerequisites:** CADT-109

**CADT-257** **Advanced Mechanical Design***4 Credits*

This course places further emphasis on learning feature-based parametric software for the creation of parts, assemblies, and drawings while gaining further knowledge in computer aided design technology. The primary focus of the course will be in combination of using parametric software toward design intent. Students will continue to produce actual parts through the cooperation of the NIC Machine Technology program and will be expected to choose a final project of which they will design, develop, produce working drawings, and present to the class for their final grade. This final project will be at the student's own expense.

**Lecture:** 4 hours per week

**Prerequisites:** CADT-255 or instructor permission

**CADT-261** **Statics and Strengths of Materials***3 Credits*

This course introduces the basics of statics and strengths of materials without calculus. Students will study stress and strength factors of rigid bodies toward practical mechanical design problems. A good understanding of algebra and trigonometry, along with a knowledge of Microsoft Excel and CAD systems, are recommended to solve a variety of problems.

**Lecture:** 3 hours per week

**Prerequisites:** MCTE-101 or an appropriate score on a placement test

## COMPUTER APPLICATIONS OFFICE TECHNOLOGY

### CAOT-112 1 Credit

#### Keyboarding I

This course provides introductory development of basic keyboarding skills. It proceeds from basic alphabetic keyboarding through numeric and symbolic keyboarding. Emphasis is placed on developing touch control of the keyboard using proper keyboarding techniques and building speed and accuracy.

**Prerequisite:** Must be a career and technical student

### CAOT-113 1 Credit

#### Keyboarding II

This course is a continuation of CAOT-112. Emphasis is placed on improving keystroke efficiency and on reinforcing and building keying speed and accuracy.

**Prerequisite:** CAOT-112 and must be a career and technical student. Students may enroll and complete these courses during the same semester.

### CAOT-115 1 Credit

#### Outlook

This course will introduce the functions used in Microsoft Outlook including email messages, calendar, contacts, tasks, journals, and notes. This course is based on hardware and software that uses the Windows operating system.

### CAOT-120 1 Credit

#### Word Processing/Word I

This course will lead to proficiency using word processing software to create and format documents according to current business standards. This course provides an introduction to word processing fundamentals in a hands-on environment with business-oriented examples. It includes creating, storing, retrieving, editing, printing, formatting paragraphs and documents, and tables. This is a valuable course for those who want to learn how to use word processing software. In addition, students will demonstrate keyboarding proficiency of 25 wpm/95% accuracy on a three-minute timing. This course is based on hardware and software that uses the Windows operating system.

### CAOT-121 1 Credit

#### Word Processing/Word II

This course will lead to proficiency using word processing software to create and format documents according to current business standards. This course is a continuation of CAOT-120. This course provides additional word processing functions, including graphics, themes and building blocks, merging, styles, templates, and developing multi-page documents. In addition, students will demonstrate keyboarding proficiency of 35 wpm/95% accuracy on a three-minute timing. This course is based on hardware and software that uses the Windows operating system.

**Prerequisites:** CAOT-120. Students may enroll and complete these courses during the same semester.

### CAOT-122 1 Credit

#### Word Processing/Word III

This course will lead to proficiency using word processing software to create and format documents according to current business standards. This course is a continuation of CAOT-121. This course provides instruction in advanced word processing functions includ-

ing integrating Word with other programs, creating templates and macros, forms, master documents, collaboration, and customizing Word. This course is based on hardware and software that uses the Windows operating system.

**Prerequisite:** CAOT-121. Students may enroll and complete these courses during the same semester.

### CAOT-130 1 Credit

#### Spreadsheets/Excel I

This course is an introduction to spreadsheet fundamentals. This is a hands-on class that includes basic spreadsheet construction and formatting, formulas and functions, charts, and basic data analysis. Some computer knowledge and basic math skills are recommended. This course is based on hardware and software that uses the Windows operating system.

### CAOT-131 1 Credit

#### Spreadsheets/Excel II

This course is a continuation of CAOT-130. This course provides additional spreadsheets functions including managing workbook data, using tables, analyzing table data, automating worksheet tasks, enhancing charts, sharing files, and incorporating web information. This course is based on hardware and software that uses the Windows operating system.

**Prerequisite:** CAOT-130. Students may enroll and complete these courses during the same semester.

### CAOT-132 1 Credit

#### Spreadsheets/Excel III

This course is a continuation of CAOT-131. This course provides additional spreadsheets functions including using what-if analyses, pivot tables, importing and exporting data, advanced worksheet management, and macros. This course is based on hardware and software that uses the Windows operating system.

**Prerequisite:** CAOT-131. Students may enroll and complete these courses during the same semester.

### CAOT-140 1 Credit

#### Database/Access I

This course is an introduction to database management fundamentals. This is a hands-on course that includes basic skills for designing and manipulating a database, building and using queries, sorting and editing records, using forms and reports, and introduces database relationships. This course is based on hardware and software that uses the Windows operating system.

### CAOT-150 1 Credit

#### PowerPoint

This course provides an introduction to presentation software fundamentals using PowerPoint. A hands-on course that uses business-oriented examples, it includes planning, creating, storing, retrieving, editing, formatting, and viewing presentations. This course is based on hardware and software that uses the Windows operating system.

**Recommended:** Some keyboarding proficiency

### CAOT-162 2 Credits

#### Introduction to Computer Applications

This course is a rich interactive learning experience designed to give students the basic tools and aptitudes they need to meet today's technology challenges. This course explores how computers and their peripheral devices work and the capabilities of software to meet the needs of the user. Emphasis is placed on the use of computers to

manage information for personal and professional uses. Software applications in word processing, spreadsheets, and databases are used during the semester. Lab assignments using software applications are a major portion of the course requirement.

**CAOT-164**                      **Computer Fundamentals for  
Tech Programs**

1 Credit

This course covers basic computer concepts including computer hardware, computer software, and using an operating system. Emphasis will be placed on current industry-recognized business applications. Students will become familiar with the basic operations and performance of personal computers. This course is based on hardware and software that uses the Windows operating system.

**Lecture:** 1 hour per week

**CAOT-165**                      **Productivity Software  
for Tech Programs**

1 Credit

This course covers productivity software based on Microsoft Office including common program functions, word processing functions, spreadsheet functions, and presentation software functions. Emphasis will be placed on current industry-recognized business applications. This course is based on hardware and software that uses the Windows operating system.

**CAOT-166**                      **Living Online for Tech Programs**

1 Credit

This course covers the basics of the Internet, including networks and the Internet, email, using the Internet, and the impact of computing and the Internet on society. Emphasis will be placed on current industry-recognized business applications. This course is based on hardware and software that uses the Windows operating system.

**Lecture:** 1 hour per week

**CAOT-168**                      **Integrated Medical Office Software**

3 Credits

This course presents the use of an integrated medical practice management and electronic health record system (PM/EHR) in a medical office setting. Students first learn the conceptual framework both for medical billing and for the use of electronic health records in medical documentation and patient management. By working through exercises of increasing difficulty that simulate use of a PM/EHR, students develop transferable skills needed to manage the required software tasks across the total patient encounter. Concepts learned in this course are general enough to cover most integrated medical software packages, and students who complete this course should be able to use other brands of software with minimum training.

**Lecture:** 3 hours per week

**CAOT-179**                      **Medical Terminology**

2 Credits

This course is a comprehensive introduction to terminology used in the medical field. Taking a body systems approach, emphasis is placed on anatomy and physiology, abnormal conditions, diagnostic and surgical procedures, as well as medical roots, prefixes, and suffixes. Skill emphasis is placed on defining medical terms and abbreviations, understanding basic human anatomy, and spelling of medical terms.

**Lecture/Lab:** 2 hours per week

**CAOT-180**                      **Legal Issues in Health Care**

1 Credit

This course provides an overview of the laws and ethical issues relevant to medical careers. Topics include medical practice acts

and boards, risk management, basic elements of contract law, professional liability and medical malpractice, privacy, confidentiality and privileged communications, medical records and informed consent, and workplace legalities.

**CAOT-183**                      **Business Editing and Proofreading**

3 Credits

This course deals with the principles of English grammar, punctuation, sentence structure, and usage necessary for preparation of all business communications with an emphasis on proofreading, spelling, and editing documents. It is also useful for students who need to apply correct rules or the mechanics of our language to written communications.

**Lecture:** 3 hours per week

**CAOT-184**                      **Records Systems Management**

3 Credits

This course provides instruction in the management of manual and electronic records. The life cycle of records from creation through disposal or permanent retention is covered. Emphasis is placed on the classification of records, application of the ARMA filing rules, the organization and management of manual and electronic information, types of records storage facilities, the importance of records retention programs, and the necessity of providing for the safety and security of information. The use of manual, mechanical, and automated methods of information storage and retrieval including micrographic and optical disk storage is also discussed.

**Lecture:** 3 hours per week

**Prerequisite:** CAOT-140

**Pre/Corequisite:** CAOT-120

**CAOT-186**                      **Medical Coding**

3 Credits

This course is designed to help learners master the complexity of medical coding. Using the Current Procedural Terminology (CPT) and the International Classification of Diseases - Clinical Modification (ICD-CM) coding books, students will transform written descriptions of diseases, injuries, and procedures into numeric designations. Exercises will cover all medical specialties including dermatology, cardiology, primary care, and orthopedics and addresses the common coding problems encountered in the real world. Skill emphasis is placed on knowledge of coding theories and practical coding applications.

**Prerequisite:** CAOT-179 or instructor permission

**CAOT-191**                      **Medical Receptionist Internship I**

3 Credits

This course provides supervised training in medical receptionist skills through on-the-job experience in a medical-related office. It provides a practical application of medical receptionist skills as part of the learning process and involves approximately nine hours per week of in-office work.

**In-Office Work:** 9 hours per week

**Prerequisites:** CAOT-179 and CAOT-212 and instructor permission

**CAOT-204**                      **Career Leadership**

1 Credit

This course is designed to allow students to explore character traits and to discover the characteristics that are needed to become an effective leader. Students are given an opportunity to apply the knowledge they gain of character and leadership through the planning and implementation of a community service project. Students

will be encouraged to participate in service learning and/or leadership activities. Students will demonstrate project management, teamwork, problem solving and time management.

**Lecture:** 1 hour per week

**CAOT-205 Business Document Formatting/Transition**  
2 Credits

This course is an introduction to machine transcription and document formatting including formatting business documents such as letters, memos, reports, agendas, itineraries, and news releases. Students prepare documents by listening to recorded dictation and transcribing the dictation using word processing software. Development of good listening skills is stressed. Emphasis is placed on developing proofreading and editing skills to produce mailable documents.

**Prerequisites:** CAOT-120 and CAOT-183

**CAOT-210 Office Procedures**  
3 Credits

This course is designed to provide students with the information necessary to be successful in today's rapidly changing office environment. In addition to providing students with opportunities to practice and use previously learned skills and abilities, topics include office technology; the global economy; increased diversity in the workplace; career planning and preparation; the importance of interpersonal, oral, and written communication skills; teamwork; critical thinking skills; ethical issues in the work environment; learning and applying effective telephone techniques; handling office callers; scheduling appointments, meetings, and conferences; making travel arrangements; handling the office mail; and stress and time management.

**Lecture:** 3 hours per week

**Pre/Corequisite:** CAOT-120

**CAOT-216 Medical Transcription I**  
1 Credit

This course is an introduction to transcribing recorded medical dictation and covers basic reports used in the medical field, related medical terminology, use of reference material, and specialized rules of grammar and punctuation peculiar to dictated medical reports. Emphasis is on the importance of correct usage of medical terms with an introduction to proofreading and editing of medical reports. Medical reports will be transcribed from four individual case studies covering the reproductive, musculoskeletal, cardiopulmonary, and integumentary body systems. Application testing is completed under timed conditions.

**Prerequisites:** CAOT-179 and CAOT-205

**CAOT-217 Medical Transcription II**  
1 Credit

This course is a continuation of CAOT-216. Medical reports will be transcribed from six individual case studies covering the urinary, nervous, digestive, endocrine, lymphatic, and respiratory body systems.

**Prerequisite:** CAOT-216. Students may enroll and complete these courses during the same semester.

**CAOT-220 Administrative Support Internship I**  
3 Credits

This course provides supervised training in administrative skills through on-the-job experience in a business office. It provides a practical application of administrative office skills as a part of the learning process and involves approximately nine hours per week of in-office work.

**On-the-Job Activities:** 9 hours per week

**CAOT-221 Administrative Assistant Internship II**  
3 Credits

This course is a continuation of CAOT-220.

**On-the-job Activities:** 9 hours per week

**Prerequisite:** CAOT-220 and instructor permission

**CAOT-222 Legal Administrative Assistant Internship I**  
3 Credits

This course provides supervised training in administrative skills through on-the-job experience in a legal-related office. It provides a practical application of legal administrative office skills as part of the learning process.

**In-Office Work:** 9 hours per week

**Prerequisite:** CAOT-213 and instructor permission

**CAOT-223 Legal Administrative Assistant Internship II**  
3 Credits

This course is a continuation of CAOT-222.

**In-Office Work:** 9 hours per week

**Prerequisite:** CAOT-222 and instructor permission

**CAOT-224 Medical Administrative Assistant Internship**  
3 Credits

This course provides supervised training in administrative medical office skills through on-the-job experience in a medical-related office. It provides a practical application of administrative medical office skills as part of the learning process.

**In-Office Work:** 9 hours per week

**Prerequisites:** CAOT-217 and instructor permission

**CAOT-225 Medical Billing Specialist Internship I**  
4 Credits

This course provides supervised training in medical accounts receivables/insurance billing through on-the-job experience in a medical facility. It provides practical application of medical accounts receivables/insurance billing as part of the learning process.

**On-Site Work:** 11 hours per week

**Prerequisites:** ACCT-110 and CAOT-186 and instructor permission

**CAOT-226 Medical Billing Specialist Internship II**  
4 Credits

This course is a continuation of CAOT-225.

**On-Site Work:** 11 hours per week

**Prerequisite:** CAOT-225 and instructor permission

**CAOT-250 Office Skills Capstone**  
1 Credit

This course is an application-oriented capstone assessment of students' proficiency in Computer Application and Office Technology (CAOT), Paralegal (PLEG), or Accounting Assistant skills.

**Lecture:** 1 hour per week

**COMPUTER INFORMATION TECHNOLOGY**

**CITE-101 Networking I**  
4 Credits

This course provides students with the fundamental knowledge and skills to install and configure server operating systems in a small business environment. It will focus on four main areas: installing, securing, networking, and basic network services. By the end of the

course, students will have installed and configured a server operating system that is secure, on the network, and provides basic network services to the end user.

**Lecture/Lab:** 4 hours per week

**Corequisite:** CITE-101L

### **CITE-102**

*3 Credits*

### **Networking II**

This course provides students with the knowledge and skills to configure server operating systems in a small to medium business environment. It will focus on four main areas: resource access, security, advanced networking, and advanced network services. By the end of the course, students will have configured a server operating system that is fault-tolerant, secure, scalable, and provides advanced network services to the end user.

**Lecture/Lab:** 4 hours per week

**Prerequisite:** CITE-101

**Corequisite:** CITE-102L

### **CITE-103**

*1 Credit*

### **Command Line Fundamentals**

This course teaches the fundamental skills necessary for working in a command line environment of today's common operating systems such as Microsoft DOS and PowerShell, and the Linux Bash environment. This course is intended for technical professionals wanting to advance their skills and for students preparing for a technology related career.

**Lecture:** 1 hour per week

### **CITE-104**

*3 Credits*

### **Systems Administration I**

This course covers the fundamentals of implementing, managing, maintaining, and provisioning services and infrastructure in a server-based network environment. This course covers the initial implementation and configuration of core networking services, such as IP networking, file storage, Directory Services, user and group management, file and print services, and virtualization.

**Lecture:** 3 hours per week

### **CITE-105**

*3 Credits*

### **Systems Administration I Projects**

This course utilizes projects in teaching the fundamentals of implementing, managing, maintaining, and provisioning services and infrastructure in a server-based network environment. This course covers the initial implementation and configuration of core networking services, such as IP networking, file storage, Directory Services, user and group management, file and print services, and virtualization.

**Lecture:** 1 hour per week

**Lab:** 6 hours per week

**Corequisite:** CITE-104

### **CITE-106**

*1 Credit*

### **Systems Administration I Certification**

This course will assist students in preparing for Information Technology Systems Administration level one industry certification exam(s).

**Lecture:** 1 hour per week

**Recommended:** CITE-104 and CITE-105

### **CITE-115**

*1 Credit*

### **Desktop Operating System Support Certification**

This course will assist students in preparing for Information Technology desktop operating system industry certification exam(s).

**Lecture:** 1 hour per week

**Recommended:** CITE-116 and CITE-117

### **CITE-116**

*3 Credits*

### **Desktop Operating System Support**

This course concentrates on supporting desktop and mobile operating systems in an enterprise computing environment. It examines installation, configuration, networking, remote access, resource access, secure wireless network access, security issues and their resolution.

**Lecture:** 3 hours per week

### **CITE-117**

*1 Credit*

### **Desktop Operating System Support Projects**

This course utilizes projects in supporting desktop and mobile operating systems in an enterprise computing environment. It examines installation, configuration, networking, remote access, resource access, secure wireless network access, security issues and their resolution.

**Lab:** 3 hours per week

**Corequisite:** CITE-116

### **CITE-118**

*2 Credits*

### **Computer Information Technology Essentials**

This course provides students with the knowledge of computer hardware and software and advanced concepts such as security, networking, and the responsibilities of an IT professional. Students who complete this course will be able to explain the internal components of a computer, describe how to assemble a computer system and install an operating system. Understand troubleshooting methodologies used in both computer system repair and maintenance as well as in a networked environment.

**Lecture:** 2 hours per week

### **CITE-119**

*2 Credits*

### **Computer Information Technology Essentials Projects**

This course presents a comprehensive advanced exposure to computer operating systems and hardware. Students working through hands-on activities and labs gain skills in assembling components, install, configure and maintain devices, PCs and software, understand the basics of networking and security/forensics, laptops, printers and properly diagnose, document, resolve common hardware and operating system software issues while applying troubleshooting skills. Students also gain understanding of appropriate customer support; understand the basics of virtualization, desktop imaging, and deployment.

**Lecture:** 1 hour per week

**Lab:** 6 hours per week

**Corequisite:** CITE-118

**Recommended:** CITE-116 and CITE-117

### **CITE-120**

*1 Credit*

### **Computer Information Technology Essentials Certification**

This course is intended to assist the student in preparing for the Information Technology industry certification examination by providing instructor mentoring, practice and simulation certification practice exam questions, supplemental resources, and optional supplemental lab exercises.



**Lecture:** 1 hour per week

**Recommended:** CITE-118 and CITE-119

**CITE-121**  
3 Credits

**Network Support I**

This course provides students with the knowledge of the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of LAN concepts, media, and operations are introduced to provide a foundation for students.

**Lecture:** 3 hours per week

**CITE-122**  
3 Credits

**Network Support I Projects**

This course provides students with the knowledge of the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of LAN concepts, media, and operations are introduced to provide a foundation for the student to be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes and troubleshoot network issues.

**Lecture:** 1 hour per week

**Lab:** 6 hours per week

**Corequisite:** CITE-121

**CITE-123**  
1 Credit

**Network Support I Certification**

This course will assist students in preparing for entry level network technician industry certification exam(s).

**Lecture:** 1 hour per week

**Recommended:** CITE-121 and CITE-122

**CITE-127 Desktop Commodity Operating System Support Projects**  
2 Credits

This course utilizes projects in supporting commodity desktop and mobile operating systems in an enterprise computing environment. It examines installation, configuration, maintenance, remote access, resource access, secure wireless network access, security issues and their resolution. In addition configuring backups and restoring data, installing patches and updates, and networking are examined.

**Lecture:** 4.5 hours per week

**Lab:** 1.5 hours per week

**Corequisite:** CITE-116

**CITE-150**  
3 Credits

**Introduction to Networking**

This course is designed to provide students with the background to understand local area networking information including industry language, data communication protocols, and an overview of microcomputers and network user basics. Topics include operating systems, network operating systems, network card configuration, and installations for network connectivity. Hands-on exercises and scenario-based reviews are included with coverage of critical networking issues and concepts.

**Lecture/Lab:** 4 hours per week

**CITE-165**  
3 Credits

**Linux System Administration**

This course is for anyone interested in gaining a greater understanding of Linux. It contains essential information for anyone responsible for providing basic installation, operation, and troubleshooting services on Linux workstations and servers. This course will also

appeal to Microsoft professionals seeking to gain Linux expertise.

**Lecture/Lab:** 4 hours per week

**Prerequisite:** Proficiency in one or more non-Linux operating systems

**CITE-201**  
3 Credits

**Networking III**

This course provides students the fundamental knowledge and skills needed to configure network identity and access management services in a corporate business environment through the use of central administration and policy enforcement.

**Lecture/Lab:** 4 hours per week

**Prerequisite:** CITE-102

**Corequisite:** CITE-201L

**CITE-202**  
3 Credits

**Networking IV**

This course provides students the knowledge and skills needed to maintain and support network identity and access management services in a corporate business environment. Topics addressed include managing policies, performing backup and restore, and monitoring and troubleshooting directory services related issues.

**Lecture/Lab:** 4 hours per week

**Prerequisite:** CITE-201

**Corequisite:** CITE-202L

**CITE-202A**  
1 Credit

**Networking IV Certification Exam Preparation**

This course is intended to assist students in preparing for the Networking IV Information Technology industry certification examination by providing instructor mentoring, simulation certification practice exam question, supplemental resources, and optional supplemental lab exercises.

**Lab:** 8-16 hours per week

**Corequisite:** CITE-202

**CITE-203**  
3 Credits

**Networking V**

This course addresses the responsibilities of server administration and the day-to-day operations and management of an infrastructure of servers for an enterprise organization. Topics addressed include server administration using scripts and batch files, remote administration, and managing hosted services.

**Lecture/Lab:** 4 hours per week

**Prerequisite:** CITE-202

**Corequisite:** CITE-203L

**CITE-203A**  
1 Credit

**Networking V Certification Exam Preparation**

This course is intended to assist students in preparing for the Networking V Information Technology industry certification examination by providing instructor mentoring, simulation certification practice exam questions, supplemental resources, and optional supplemental lab exercises.

**Lab:** 8-16 hours per week

**Corequisite:** CITE-203

**CITE-205 Systems Administration II Certification**  
1 Credit

This course will assist students in preparing for Information Technology Systems Administration level two industry certification exam(s).

**Lecture:** 1 hour per week

**Recommended:** CITE-206 and CITE-207

**CITE-206 Systems Administration II****3 Credits**

This course covers the administration tasks necessary in maintaining a network server in a business infrastructure. Topics include deploying images, managing users and groups in a directory database, managing policies, securing data, remote access, monitoring, and update management.

**Lecture:** 3 hours per week**Prerequisite:** CITE-104**CITE-207 Systems Administration II Projects****3 Credits**

This course uses projects to teach the skills necessary to maintain network servers in a business infrastructure. Projects include deploying images, managing users and groups using a directory database, management policies, securing data, configuring remote access, monitoring, and configuring update management.

**Lecture:** 1 hour per week**Lab:** 6 hours per week**Corequisite:** CITE-206**CITE-208 Systems Administration III****3 Credits**

This course covers advanced administration tasks necessary in supporting enterprise network infrastructures. Topics include deploying an enterprise network infrastructure, advanced user and group management, advanced networking services, cross vendor network integration, identity management, designing for fault tolerance, and disaster recovery.

**Lecture:** 3 hours per week**Prerequisite:** CITE-206**CITE-209 Systems Administration III Projects****3 Credits**

This course uses projects to teach the skills necessary to support enterprise network infrastructures. Projects include deploying an enterprise network infrastructure, implementing advanced user and group management, implementing advanced networking services, supporting cross vendor network integration, supporting identity management, designing for fault tolerance and disaster recovery.

**Lecture:** 1 hour per week**Lab:** 6 hours per week**Corequisite:** CITE-208**CITE-211 Systems Administration III Certification****1 Credit**

This course will assist students in preparing for Information Technology Systems Administration level three industry certification exam(s).

**Lecture:** 1 hour per week**Recommended:** CITE-208 and CITE-209**CITE-213 Network Support II****3 Credits**

This course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn about configuration of routers and switches for advanced functionality. Students will develop the knowledge for configuring and troubleshooting routers and switches to resolve common issues in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network.

**Lecture:** 3 hours per week**Prerequisite:** CITE-121**CITE-215 Network Support II Projects****3 Credits**

This course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. Students will be able to configure and troubleshoot routers and switches and resolve common issues in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network.

**Lecture:** 1 hour per week**Lab:** 6 hours per week**Corequisite:** CITE-213**CITE-217 Network Support III****3 Credits**

This course discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements.

**Lecture:** 3 hours per week**Prerequisite:** CITE-213**CITE-219 Network Support III Projects****3 Credits**

This course discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement remote access operations in a complex network.

**Lecture:** 1 hour per week**Lab:** 6 hours per week**Corequisite:** CITE-217**CITE-221 Network Support III Certification****1 Credit**

This course will assist students in preparing for an associate level network technician industry certification exam(s).

**Lecture:** 1 hour per week**Recommended:** CITE-217 and CITE-219**CITE-295 Computer Information Technology Internship****4 Credits**

This course involves a working partnership in which the sophomore students of the CITE program join with area employers in a structured, real-life relationship. Students will gain insight and on-the-job work experience doing projects that would normally be assigned to the employer's entry-level support staff. During this supervised experience, students will be evaluated on their performance of course competencies. Students are responsible for finding an appropriate internship site and permission of the instructor is required. This course may be used to substitute for ATEC-117.

**Lecture:** 15 hours**On-Site Work:** 135 hours**Prerequisite:** Sophomore standing in the CITE program

**COMPUTER SCIENCE****CS-100 Intro to Computers and Computer Science**  
3 Credits

This course is an introduction to computers and computer science for non-computer science majors. Prior experience with computers, such as using a graphical user interface and a word processor, is recommended. Students with no prior experience will be expected to attend out-of-class labs to learn the basics of a computer. Topics include an historical perspective, evolving hardware and software, using the Internet, creating web pages, social implications, and using a modern programming language. Problem solving and algorithm development are important themes of the course. The course involves substantial use of microcomputers outside of class and the possible use of minicomputers and alternative operating systems.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-025 or an appropriate score on a placement test

**CS-107 Intro to Robotics Programming**  
3 Credits

This course provides an introduction to programming using RobotC programming language. No prior programming experience is expected. The course is appropriate for students interested in learning how to program in C with hands-on experience of making the NXT Robot run on programs designed in class. It provides an introduction to fundamentals of programming basics of RobotC programming language and hardware NXT design. Students will program robots and learn how to control a robot's direction and speed. Students will also learn how robots use feedback from sensors (touch, light, and sound) to interpret the world around them. Students will apply their knowledge to create obstacle course challenges that the programmed robot will run autonomously.

**Lecture:** 3 hours per week

**Recommended:** CS-100

**CS-115 Introduction to Problem Solving and Programming**  
3 Credits

This course provides an introduction to computational thinking and problem solving. Students will be able to apply elementary computing concepts including variables, loops, functions, lists, conditionals, concurrency, data types, simple object oriented concepts, I/O, events, syntax, and structured programming. Basic concepts of computer organization and editing, and the influence of computers in modern society will be explored..

**Note:** CS-115 carries no credit if taken after successful completion of higher numbered computer science courses.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-108 or an appropriate score on a placement test

**CS-150 Computer Science I**  
4 Credits

This course offers an introduction to the field of computer science using a current programming language. Central themes of the course include an introduction to computer organization, algorithmic problem solving, structured and object oriented program design, and the societal and professional context in which computer science exists. Fundamental data types including arrays and structures will be explored and concepts such as complexity, invariants, abstract data types, pointers, and linked lists will be introduced.

**Lecture:** 3 hours per week

**Corequisite:** CS-150L (2 hours per week)

**Prerequisite:** MATH-108 or an appropriate score on a placement test

**Recommended:** CS-100

**CS-151 Computer Science II**  
4 Credits

This course provides continuing experience in problem solving and software design methods. The exploration of recursion is continued and the entire software-design cycle is considered in greater depth. Introduction to abstract data types and fundamental data structures will cover topics: writing code to generate, use, and maintain complex dynamic structures, including linked lists, pointers, stacks, queues, sorts, searches, and trees. Other topics include a continued development of skills in the analysis of algorithms, dynamic memory use, and the use of external files.

**Lecture:** 3 hours per week

**Pre/Corequisite:** CS-151L (2 hours per week) and MATH-187

**Prerequisite:** CS-150

**CS-155 Computer Organization and Assembly Language**  
3 Credits

This course covers topics including digital logic, machine-level representation of data, and processor architecture covering the ALU, control unit, assembly language, memory organization, addressing methods, I/O and interrupts.

**Lecture:** 3 hours per week

**Pre/Corequisite:** MATH-187

**Prerequisite:** CS-150

**CS-210 Programming Languages**  
3 Credits

This course develops fundamental concepts of major programming languages, with primary emphasis on language features and their role in designing code and software. Students will study the constructs of programming language design including a conceptual study of procedural, data-flow, functional, and object-oriented languages.

**Lecture:** 3 hours per week

**Prerequisite:** CS-151

**CS-228 Introduction to UNIX**  
2 Credits

This course is offered with the primary goal of providing Computer Science majors with UNIX operating system experience to facilitate their transfer to a four-year university. It is also helpful for students who are interested in learning about the UNIX operating system, which is used extensively in business and on the Internet. Course topics typically include basic command line use of the UNIX operating system; the file structure and permissions; using text editors; creating scripts; the shells, network, and Internet tools; graphical environments; and an introduction to UNIX administration. Students will be expected to complete homework that may be completed on campus, on a PC or MAC using a UNIX variant, or via the Internet. Students will have accounts on a UNIX or Linux server on campus that can be accessed via the Internet.

**Lecture:** 2 hours per week

**Recommended:** CS-100

**CS-240 Digital Logic**  
4 Credits

This course includes the following topics: digital logic concepts, logic design, Karnaugh maps, combinational and sequential networks, state tables, state machines, and programmable logic arrays. Laboratory activities use basic lab equipment, logic analyzers, and digital oscilloscopes.

**Lecture:** 3 hours per week

**Corequisite Lab:** CS-240L (2 hours per week)

**Prerequisite:** MATH-170 or MATH-187 or instructor permission

**CS-241 Computer Operating Systems**  
*3 Credits*

This course provides an overview of operating systems and operating system principles. It includes sections on concurrency, scheduling and dispatch, memory management, net-centric computing, OS security, and process management. Concurrent programming using threads is also explored.

**Lecture:** 3 hours per week

**Pre/Corequisite:** CS-228 or CS-270

**Prerequisite:** CS-151 and CS-155

**CS-270 System Software**  
*3 Credits*

This course is designed to provide an introduction to the UNIX operating system and variants (such as Linux) as well as system programming concepts. Programming productivity tools will be introduced such as making, debugging, linking, and loading tools. Shell programming and scripting languages will also be used. System programming tools include process management and interprocess communication, exception handling, network concepts, and network programming.

**Lecture:** 3 hours per week

**Prerequisite:** CS-151

**COOKING**
**COOK-110 Soups and Sauces**  
*1 Credit*

This course will focus on the fundamental knife skills and basic food organization and preparation. Students will learn techniques for preparing soups and sauces. A variety of sauces will be introduced including mother sauces, small sauces, clear soup, cream soup, chowders, purees, and specialties.

**Lecture:** 1 hour per week

**COOK-112 Cooking for One or Two**  
*1 Credit*

This course is about learning to prepare meals for one or two people. Focus will be placed on putting fun into preparing healthy, attractive meals. Planning, shopping, preparation, and storing will also be discussed.

**Lecture:** 1 hour per week

**COOK-113 Cooking Around the World**  
*1 Credit*

This course will focus on the fundamentals of international cuisines. Students will learn to identify flavor combinations and cooking techniques from around the world. International cuisines explored will include Thai, Indian, Mediterranean, and Central and South American.

**Lecture:** 1 hour per week

**CREDIT FOR PRIOR LEARNING**
**CPL-121 Introduction to Credit for Prior Learning**  
*1 Credit*

This course is designed to introduce students to credit for prior learning. Students will summarize prior learning experiences, request and review outlines for applicable courses, develop goal statements, and write a detailed work history.

**CPL-122 Credit for Prior Learning**
**2 Credits Portfolio Development**

This course is designed to instruct students in methods utilized to summarize and document prior learning experiences. Students will describe skills, competencies and areas of knowledge that may have been attained outside of a traditional classroom environment. Students will write, edit, and build a portfolio.

**Prerequisite:** CPL-121

**CPL-123 Portfolio Credit Assessment**  
*1-15 Credits*

A team comprised of a minimum of three people including program instructors, the Division Chair, and the Dean will evaluate portfolio requests for credit. It is the student's responsibility to provide sufficient information about previous learning experiences and how they have applied the learning in the specific profession.

**Prerequisites:** CPL-121 and CPL-122

**CRIMINAL JUSTICE**
**CJ-103 Introduction to Criminal Justice**  
*3 Credits* (same as LAWE-103)

This course offers an introduction to the purpose, function, and brief history of the agencies dealing with criminal justice, while presenting a survey of requirements for entering criminal justice service. Students discuss crime, the criminal, traffic, and vice as social problems; the function of the courts; prosecution and defense attorneys; correctional and penal institutions; and probation and parole. This course will introduce the student to the various agencies and employment opportunities within the criminal justice system.

**CJ-202 Corrections in America**  
*3 Credits* (same as LAWE-202)

This course includes a survey of the historical, philosophical, and legal bases of correctional procedures and institutions. It also includes an examination of current problems and innovations.

**Prerequisite:** LAWE-103 or CJ-103 or permission of instructor

**CJ-205 Criminal Procedure**  
*3 Credits* (same as LAWE-205)

This course includes an examination of the procedural aspects of criminal law. It will include specific applications of procedures by actors in the criminal justice process including police, prosecutors, defense attorneys, judges, and corrections officials. This examination will provide a basic understanding of state and local legal codes, as well as current applications of law in both arrest and search and seizure.

**CJ-245 Introduction to Criminology**  
*3 Credits* (same as SOC-245)

This course introduces students to the study of criminology by exploring a broad range of issues related to crime and criminal behavior. The course reviews the theoretical foundations and relevant research for understanding the causes of crime, criminal behavior, and systems of punishment within society.

**Lecture:** 3 hours per week

**Recommended:** SOC-101 or SOC-102

## CULINARY ARTS

**NOTE:** Course enrollment requires prior acceptance into the Culinary Arts program.

### **CULA-111** **Food Safety and Sanitation** 3 Credits

This course provides a clear understanding of daily procedures required to ensure that food is handled safely, avoiding contaminants that cause serious food-borne illnesses. Students will prepare for the ServSafe Managers Examination, earning a certification with a score of 75% or higher.

**Lecture:** 3 hours per week

### **CULA-120** **Professional Kitchen I** 4 Credits

This course is an introduction to the professional kitchen. Students will explore the history of the professional kitchen and its organization. An overview of food safety and sanitation, nutrition, menu and recipes, kitchen staples and equipment identification, and kitchen equipment use will be presented. Skills development will include knife skills, basic cooking methods and techniques, and calculation of recipe conversions, total recipe cost, and cost per portion.

**Lecture:** 4 hours per week

### **CULA-120L** **Professional Kitchen Lab I** 4 Credits

This course will apply the knowledge and skills taught in Professional Kitchen I theory while operating Emery's, the college restaurant. Emphasis is placed on practical experiences to enhance skills in food safety and sanitation; use of equipment; knife skills, basic cooking methods, and techniques; and recipe conversions, recipe costs, and costs per portion.

**Lab:** 12 hours per week

### **CULA-121** **Professional Kitchen II** 4 Credits

This course integrates the fundamental culinary and baking principles learned in Professional Kitchen I with an emphasis on more advanced concepts, including poultry, seafood, and meat cookery; advanced garde manger; advanced custards; fruit desserts and garnishes; basic cake and icings; and churned/still frozen desserts.

**Lecture:** 4 hours per week

### **CULA-121L** **Professional Kitchen Lab II** 4 Credits

This course will provide students practical application of the skills learned from theory courses through the exploration of more advanced menu offerings while operating Emery's Restaurant.

**Lab:** 12 hours per week

**Prerequisite:** CULA-120L

### **CULA-130** **Menu Planning and Procurement** 2 Credits

This course is an introduction to the fundamentals of menu construction. Emphasis is placed on the importance of the menu in creating a successful business. Students will examine and analyze various menu models and learn how changes to the menu can drastically increase/decrease sales, create interest, satisfy individual tastes and nutritional needs, and be used as an important sales and marketing tool. Principles of purchasing and the effect on profitability of hospitality operations will be explored.

**Lecture:** 2 hours per week

**Prerequisite:** CULA-165

### **CULA-165** **Introduction to Customer Service** 3 Credits

This course will focus on the basics of customer service. Quality customer service will be at the center of all discussions. Special attention will be placed on front-end restaurant and dining service procedures. Students will apply principles learned in class during the "on-the-job" lab in the college restaurant. A skills development log and completion of written assignments will be required.

**Lecture:** 30 hours

**Lab:** 45 hours

### **CULA-165L** **Introduction to Customer Service Lab** 0 Credits

This course is an on-the-job training lab to be taken in conjunction with CULA-165. Principles taught in CULA-165 will be applied in this lab.

### **CULA-166** **Restaurant Customer Service Operations** 3 Credits

This course will explore advanced customer service relations, dining room procedures, and internal customer service. Students will learn and experience a variety of front-end positions including service supervisor. Special service situations will be addressed as well as standards for industry communications. Students will apply principles learned in class during the "on-the-job" lab in the college restaurant. A skills development log and completion of written assignments will be required.

**Lecture:** 30 hours

**Lab:** 45 hours

### **CULA-166L** **Restaurant Customer Service Operations Lab** 0 Credits

This course is an on-the-job training lab to be taken in conjunction with CULA-166. Principles taught in CULA-166 will be applied in this lab.

### **CULA-176** **Culinary Arts Internship** 2 Credits

This course provides supervised training in culinary arts through on-the-job experience in a restaurant or related facility. It provides a practical application of culinary skills as part of the learning process.

**Prerequisites:** CULA-165 and CULA-170

**On-site Work:** 90 hours

## DANCE

### **DANC-105** **Aerobic Dance/Fitness** 1 Credit

This course combines cardiovascular conditioning, toning, flexibility exercises, and a fat burning intensity level. DANC-105 is offered in two levels: Nice and Easy, a low impact with moderate intensity for the beginner; and Intermediate, a muscle strengthening and higher level of intensity. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

### **DANC-111** **Beginning Rhythm and Movement** 1 Credit

This course will explore the many different forms of dance, from the Charleston to the waltz to jazz. It also covers different periods of history, styles, and rhythms. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**DANC-112**  
*1 Credit*
**Social/Swing Dance I**

This course will teach the East Coast Swing dance, a popular couple dance. Single, double, and triple rhythm will be covered, along with both 6-count and Lindy Hop 8-count step versions. Other related dances (West Coast Swing, Jive, Foxtrot) may be introduced depending on the students' interests and skill level. Students will get a moderate intensity workout that improves endurance, agility, coordination, balance, and posture. This course may be repeated for a total of four credits. A special activity fee may be required.

**Activity:** 2 hours per week

**DANC-113**  
*1 Credit*
**Jazz Dance I**

This course is an introduction to the movements and styles of today's jazz dancer. It emphasizes exercises and combinations of steps and explores theatrical, lyrical, and "funk" styles set to popular music. This course is a fun alternative to sports and helps develop an appreciation for the art form, music, rhythm awareness, and coordination. It also provides physical conditioning through strength and flexibility. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**DANC-114**  
*1 Credit*
**Jazz Dance II**

This course is a continuation of DANC-113, exploring movements and styles of today's jazz dancer. It emphasizes exercise, combination steps, and explores theatrical, lyrical, and "funk" styles to popular music. This course provides an alternative to sports and helps develop an appreciation for the art form, music, rhythm awareness, and coordination. It also provides physical conditioning through strength and flexibility. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Recommended:** DANC-113

**DANC-115**  
*1 Credit*
**Modern Dance: Beginning I**

This course is a discovery of dance movement through the physical and mental discipline techniques of Graham and Cunningham. It includes an insight into how dances are created through improvisation, and by analyzing these movements, students will explore choreography. This course provides a creative outlet and physical conditioning of strength and flexibility. It also develops coordination and an appreciation of the art form. This is an excellent course for theatre and performing arts students. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**DANC-117**  
*1 Credit*
**Ballet: Beginning I**

This course focuses on basic technique, body alignment, and the development of step combinations. It includes related terminology and history of the art form. DANC-117 helps improve flexibility, muscle strength and control, and mental discipline over the body and promotes the aesthetic understanding and appreciation of classical ballet. This course satisfies may be repeated for a total of four credits.

**Activity:** 2 hours per week

**DANC-118**  
*1 Credit*
**Ballet: Beginning II**

This course is a continuation of DANC-117 for beginners and concentrates on technique, alignment, and progressions. The student is introduced to more complex steps through faster-paced instruction. The course increases flexibility, muscle strength and control, and mental discipline over the body and enhances an appreciation of the art form as technique improves. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Prerequisite:** DANC-117

**DANC-120**  
*1 Credit*
**Latin Social Dance**

This course will teach popular and exciting Latin couple dances, with an emphasis on Salsa and Cha Cha. Students will learn steps, techniques, and Latin motion style particular to these social dances. Other Latin dances may be introduced (Rumba, Samba, and Merengue) depending on the student's interest and skill level. This course may be repeated for a total of four credits. A special activity fee may be required.

**Activity:** 2 hours per week

**DANC-121**  
*1 Credit*
**Tap Dance: Beginning I**

This course is a basic class in standard tap dance technique. The course will focus on an introduction to the history of American tap dance. Students will be given exposure to fads and current styles which are popular in the tap technique syllabus. This includes classical tap, stomp, step dance and clogging, and rhythm tap. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

## DIESEL TECHNOLOGY

**NOTE:** Course enrollment requires prior acceptance into the Diesel Technology program. Successful completion of each semester and/or permission of the instructor is required for enrollment in the next semester.

**DSLT-104 Safety and Introduction to Shop Practices**  
*2 Credits*

This course will cover the theory and application of shop safety, tool and equipment usage, precision measuring, basic welding, and oxyacetylene skills.

**Lecture/Lab:** 3 hours per week

**DSLT-117L**  
*2 Credits*
**Diesel Lab**

This course provides students with hands-on exposure in a shop setting on the subjects covered in the DSLT-137 theory course. Instruction utilizes a variety of mock-ups, training aids, components, and limited live customer work. Primary emphasis will be placed on suspension system and steering diagnostics and repair.

**DSLT-123L Diesel Engines/Electrical Systems Lab**  
*6 Credits*

This course will give students hands-on exposure in a shop setting to those subjects covered in the DSLT-123 theory class. This instruction will utilize a variety of mock-ups, training aids, components, and limited live customer work.

**Lab:** 12 hours per week

**DSLT-124**                      **Powertrain/Brake Systems**  
5 Credits

This course will teach students the operation, construction, service, and repair of heavy-duty clutch systems, manual transmissions, drive-lines, universal joints, single and two-speed differentials, as well as axles and bearings. This course will also teach students the operation, construction, service, and repair of heavy truck and equipment air systems, foundation air brake systems, foundation hydraulic brake systems, as well as wheels and seals.

**Lecture/Lab:** 10 hours per week

**Corequisite:** DSLT-124L

**DSLT-124L**                      **Powertrain/Brake Systems Lab**  
6 Credits

This course will give students hands-on exposure in a shop setting to those subjects covered in the DSLT-124 theory class. This instruction will utilize a variety of mock-ups, training aids, components, and limited live customer work.

**Lab:** 12 hours per week

**Corequisite:** DSLT-124

**DSLT-125**                      **Diesel Engines**  
2 Credits

This course will include instruction on the basics of how to identify, repair, rebuild, and/or replace diesel engines. Students will learn two-stroke and four-stroke combustion engine theory as well as engine performance criteria. Instruction will include the operation and basic principles of various diesel engine components and their respective systems.

**Lecture/Lab:** 4 hours per week

**DSLT-126**                      **Electrical Systems**  
2 Credits

This course will cover troubleshooting and repair procedures for heavy-duty electrical systems, including electrical principles as they relate to the components used in trucks and heavy equipment, writing schematics, and lighting along with the associated testing and repair procedures for each system. Topics include basic electricity fundamentals, starting, and charging systems, batteries, troubleshooting, and lighting systems.

**Lecture/Lab:** 4 hours per week

**DSLT-133**                      **Introduction to Electrical**  
1 Credit

This course will cover fundamental electrical theory concepts and basic electrical system formulas.

**Lecture:** 1 hours per week

**DSLT-137**                      **Suspension/Steering and A/C**  
2 Credits

This course teaches students the operation, components, and repair of various truck and heavy equipment suspension systems. Instruction will include spring, pad, and air components, adjustments, and alignment procedure for truck steering systems. Instruction also covers the theory, operation, components, and repair of mobile air conditioning systems.

**Lecture:** 2 hours per week

**Corequisite:** DSLT-117L

**DSLT-203**                      **Basic Hydraulic Systems**  
2 Credits

This course covers basic hydraulic system principles and concepts, plus hydraulic components. Exposure to simple hydraulic formulas will also be covered.

**Lecture:** 2 hours per week

**DSLT-223**                      **Advanced Tune-Up/Computerized Engines**  
4 Credits

This course will teach students how to troubleshoot, adjust, repair, or replace components associated with tune-up procedures for diesel engines. Exhaust emissions and other environmental issues pertaining to diesel engines will also be discussed. Students will also learn the operation, construction, and repair techniques associated with diesel fuel systems and induction systems. The course will provide students with the opportunity to become aware of the principles of theory for control devices, governors, and other controls related to diesel engines. This course will also teach students how to test, troubleshoot, adjust, repair, or replace components associated with computerized engines. Students will also learn the operation, construction, and theory of computerized engine controls.

**Lecture/Lab:** 8 hours per week

**Corequisite:** DSLT-223L

**Recommended:** DSLT-133

**DSLT-223L**                      **Advanced Tune-Up/Computerized Engines Lab**  
6 Credits

This course will give students hands-on exposure in a shop setting to those subjects covered in DSLT-223 theory class. This instruction will utilize a variety of mock-ups, training aids, components, and limited live customer work.

**Lab:** 12 hours per week

**Corequisite:** DSLT-223

**Recommended:** DSLT-123L and DSLT-133

**DSLT-224**                      **Undercarriage/Powershift Transmissions and Hydraulics**  
4 Credits

This course teaches students the operation, construction, and repair of heavy equipment undercarriages and heavy-duty power-shift transmissions. Instruction covers construction and repair of various power-train components used in the heavy equipment industry. Students will also gain an understanding of the operation, construction, and theory of torque converters and final drives. This course will also teach students the theory of operation, construction, adjustment, maintenance, and repair of heavy equipment hydraulic systems. Students will also learn how to design hydraulic systems and implement changes to existing hydraulic systems.

**Lecture/Lab:** 8 hours per week

**Corequisite:** DSLT-224L

**DSLT-224L**                      **Undercarriage/Powershift Transmissions and Hydraulics Lab**  
6 Credits

This course gives students hands-on experience in a shop setting. It is designed to provide opportunities for application of subjects covered in the DSLT-224 theory class. Instruction will utilize a variety of mock-ups, training aid, components, and limited live customer work.

**Lab:** 12 hours per week

**Corequisite:** DSLT-224

**ECONOMICS****ECON-201**                      **Principles of Economics (Macro)**  
3 Credits

This course is an introductory study of our national economy. This includes the tools of supply and demand, the measurement of inflation and employment, and discussion of the definition, role, and importance of national income and money and the banking system.

The course also analyzes the role of government and the effects of international trade on the U.S. economy. Economic vocabulary and analysis of economic situations are emphasized.

**Lecture:** 3 hours per week

**Recommended:** MATH-108 or two years of high school algebra

**GEM 6**

**ECON-202 Principles of Economics (Micro)**  
3 Credits

This course is an introductory study of the economic behavior of individual consumers and suppliers. It examines consumer response to price and income changes and levels of satisfaction, supplier response to costs, and business response to degree of competition. Economic vocabulary and analysis of economic situations are emphasized.

**Lecture:** 3 hours per week

**Recommended:** ECON-201, Sophomore standing, MATH-108 or two years of high school algebra

**GEM 6**

## EDUCATION

**EDUC-201 Introduction to Teaching**  
3 Credits

This course provides an introduction to the world of teaching by focusing on teachers, learners, curriculum, and the social context in which teaching occurs. Insight and understanding will be facilitated through reflection and analysis of the students observations and participation in 30 hours of field experience in public schools. This course is required for some education transfer degrees. Its goals are to assist students in making an educated decision about teaching as a career choice, develop communication and interpersonal skills, encourage creativity and critical thinking, and provide opportunities to examine personal values and beliefs about teaching.

**Lecture:** 2 hours per week

**Field Experience:** 30 hours per semester

**Prerequisite:** Sophomore standing or permission of instructor

**Recommended:** College-level reading, oral and written English language, and computer skills

## ELECTRONIC MEDICAL RECORDS

**EMRS-122 Installing and Configuring EHRs**  
3 Credits

This course provides instruction in installation and maintenance of health IT systems, including testing prior to implementation. The course also provides an introduction to principles underlying system configuration, and hands-on experiences in computer labs or on a virtual server addressing approaches to assessing, selecting, and configuring EHRs/EMRs to meet the specific needs of customers and end-users.

**Lecture:** 3 hours per week

**Prerequisites:** CAOT-140, CAOT-168

## ENGINEERING

**ENGR-105 Engineering Graphics**  
2 Credits

This course provides instruction in computer-aided engineering drafting with emphasis on visualization of points, lines, planes,

and solids in space; freehand sketching; orthographic projection; isometric and oblique drawing; sectioning; dimensioning; descriptive geometry; and 3D modeling. It provides engineering students with beginning skills in computer-aided engineering drawing, but is not intended to train AutoCAD technicians.

**Lecture:** 2 hours per week

**Corequisite Lab:** ENGR-105L (2 hours per week)

**Prerequisite:** MATH-025 or an appropriate score on a placement test

**ENGR-123 Introduction to Engineering**  
2 Credits

This course allows students to explore careers and opportunities in engineering and technology. Topics covered include becoming an engineer, the history, opportunities and potential fields, and career paths in engineering. This course is conducted using lectures, discussions, research, projects, guest speakers, and at least one field trip. This course will also allow students to experience the design process and engineering problem solving, as well as graphical analysis, data analysis, and oral and written communication skills.

**Lecture:** 1 hour per week

**Lab:** 3 hours per week

**Recommended:** Student be familiar with the Internet

**ENGR-210 Statics**  
3 Credits

This course is a study of vector analysis, resolution of forces, free body diagrams, equilibrium, friction, centroids, moments of inertia, statics of rigid bodies, trusses, frames, machines, and cables. The course provides basic engineering skills in mechanics necessary for analysis of structures and dynamics of rigid bodies.

**Lecture:** 3 hours per week

**Prerequisites:** MATH-170 and PHYS-211

**ENGR-214 Surveying**  
4 Credits

This course presents theory and field applications of elementary surveying. It includes the use of instruments, error and precision, level circuits, running traverses, field calculations, boundary surveys, route surveys, construction surveys, triangulation, state coordinate systems, engineering astronomy, and photogrammetry. This course provides basic surveying skills that may help engineering students gain summer employment, but it is not intended as a preparation for direct entry into surveying occupations.

**Lecture:** 3 hours per week

**Corequisite Lab:** ENGR-214L (3 hours per week)

**Prerequisite:** MATH-147 or an appropriate score on a placement test

**ENGR-220 Dynamics of Rigid Bodies**  
3 Credits

This course is the study of kinematics and kinetics of particles and rigid bodies. Topics include position, velocity, acceleration, relative velocity and acceleration, translation and rotation by Newtons 2nd Law, energy, momentum methods, collisions, and vibrations. It provides basic engineering skills that apply to all machines and other engineering bodies in motion.

**Lecture:** 3 hours per week

**Prerequisites:** MATH-175 and ENGR-210

**ENGR-223 Engineering Analysis**  
3 Credits

This course introduces a combination of numerical analysis skills, problem solving and design techniques, and various computer software as they are utilized in basic engineering applications. Students will utilize oral and written communication skills in presenting



their solutions.

**Lecture:** 2 hours per week

**Lab:** 2 hours per week

**Pre/Corequisite:** MATH-175

**ENGR-240**  
4 Credits

**Circuits I**

This course presents a study of Ohm's Law, analysis methods, network theorems, Ideal Operational Amplifiers, and energy storage elements. Students will be able to apply principles of electrical circuits using hands-on lab activities and computers.

**Lecture:** 3 hours per week

**Corequisite Lab:** ENGR-240L (2 hours per week)

**Prerequisite:** MATH-175 or permission of instructor

**ENGR-241**  
4 Credits

**Circuits II**

This course presents a study of power, three phase, transformers, filters, Fourier transforms, and Laplace transforms. Students will be able to apply principles of electrical circuits using hands-on lab activities and computers.

**Lecture:** 3 hours per week

**Corequisite Lab:** ENGR-241L (2 hours per week)

**Prerequisite:** ENGR-240

**ENGR-295**  
3 Credits

**Strength of Materials**

This course is the study of material strength, including elasticity, stress, strain, beam analysis, analysis of structural forms, torsion, deformation, modes of failure, and column analysis. The course provides a basic understanding of how structures and machines should be designed to prevent failure.

**Lecture:** 3 hours per week

**Prerequisites:** ENGR-210 and MATH-175

**ENGLISH**

**THE WRITING CENTER:** The Writing Center, a comprehensive facility serving the entire campus, is located in the Lee Hall Annex. It is open daily from 8 a.m. to 3 p.m. The English and Humanities Division encourages all NIC students and faculty to drop in for assistance in document organization, sentence style, grammar, and punctuation. Computers and resource materials are available for use. Mini-courses and one-on-one tutoring are available to all programs, students, faculty, and staff.

**NOTE:** Once placed in an English class, students must pass that course with a C- or better before enrolling in the next class in the sequence. Classes in a sequence cannot be skipped once the student has been placed. Students should be prepared to provide a hard copy of their placement scores to their instructor.

**ENGL-099**  
3 Credits

**Fundamentals for Writing**

This course provides writing instruction that focuses on fluency, development, organization, revision, and editing/proofreading. As a part of this course, students will practice reading actively and critically, engaging in dialogues with texts, drafting essays in a format appropriate to purpose and audience, and utilizing a process approach to writing.

**Prerequisite:** An appropriate score on a placement test

**ENGL-101**  
3 Credits

**English Composition**

This course prepares students for the demands of writing for a range of audiences, purposes, and contexts. Students will learn processes and strategies for writing and revising clear, precise, and accurate prose and will demonstrate their abilities in a series of academic essays, mainly expository. Students will also learn to read, analyze, synthesize, and respond to a wide range of written works.

**Prerequisite:** ECTE-100, ENGL-099, or ESL-101 or an appropriate score on a placement test

**GEM 1**

**ENGL-101P**  
3 Credits

**English Composition**

This course is equivalent to ENGL-101 with the requirement of a corequisite lab course: ENGL-114C. These two courses prepare students for the demands of writing for a range of audiences, purposes, and contexts. Students will learn processes and strategies for writing and revising clear, precise, and accurate prose and will demonstrate their abilities in a series of academic essays, mainly expository. Students will also learn to read, analyze, synthesize, and respond to a wide range of written works.

**Prerequisite:** ECTE-100, ENGL-099 or ESL-101 or an appropriate score on a placement test

**Corequisite:** ENGL-114C

**GEM 1**

**ENGL-102**  
3 Credits

**English Composition**

This course provides instruction in the research and writing skills and processes. Students will learn methods for gathering, evaluating, synthesizing, and documenting a range of sources in support of expository and argumentative essays. Emphasis is on critical thinking and writing clear, concise, and effective prose. The course is required for all transfer degree programs.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**GEM 1**

**ENGL-102P**  
3 Credits

**English Composition**

This course is equivalent to ENGL-102 with the requirement of a corequisite lab course: ENGL-114D. This course provides instruction in the research and writing skills and processes. Students will learn methods for gathering, evaluating, synthesizing, and documenting a range of sources in support of expository and argumentative essays. Emphasis is on critical thinking and writing clear, concise, and effective prose.

**Lecture:** 3 hours per week

**Prerequisite:** Repeating ENGL-102

**Corequisite:** ENGL-114D

**GEM 1**

**ENGL-114**  
1 Credit

**Writing Across the Curriculum**

This course provides focused instruction and practice in the writing process. Based on writing across the curriculum principles, sections are offered on specific topics that supplement courses, subject areas, or writing tasks, with some sections emphasizing research and documentation. This course is a hybrid course, involving traditional classroom instruction, flexible-learning modules, Internet resources, and individual instruction in the Writing Center.

**Lecture:** 1 hour per week

**ENGL-175** Introduction to Literature  
3 Credits

This course introduces terminology and techniques necessary for analysis and explication of literary works from multiple genres. It is intended to provide students with basic experience in literary interpretation.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test  
**GEM 5**

**ENGL-195** Introduction to English Studies  
3 Credits

This course introduces the disciplines that make up English studies: creative writing, English education, linguistics, literature, rhetoric and composition, technical communication, film studies, new media, and critical theory. Topics include the principles, theoretical underpinnings, methods, and practical applications of English studies.

**Lecture:** 3 hours per week

**ENGL-202** Technical Writing  
3 Credits

This course offers instruction in the writing skills applicable to business and industry. This course emphasizes factual information in the form of writing instructions and describing mechanisms and processes. It includes the fundamentals of composing memos, letters, and reports. Technical Writing is designed for those interested in practical applications of technical writing principles.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-099 or an appropriate score on a placement test and sophomore standing or permission of the Division Chair

**Recommended:** ENGL-101

**ENGL-205** Interdisciplinary Writing  
3 Credits

This course builds on writing skills gained from ENGL-101 and ENGL-102. In addition, the course enables students to make connections among many disciplines and instructs students to write effective papers in the sciences, social sciences, history, business fields, as well as in the humanities. Emphasis is placed on the student's own writing of essays and explications.

**Lecture:** 3 hours per week

**Prerequisites:** ENGL-101 and ENGL-102

**ENGL-207** Trestle Creek Review  
2 Credits

This course introduces students to small-press publishing. Students solicit and read manuscripts from NIC and the community and collaboratively determine the contents of *Trestle Creek Review*, an annual literary magazine. Through the publication of the magazine, students become conversant with contemporary literature written by budding and established writers and gain skills in literary design, editing, and criticism. Additionally, students learn about the North American literary industry, and gain practical tools to advance their own writing and editing careers through involvement with national and international small magazines and presses. Students receive acknowledgment on the masthead of *Trestle Creek Review* as members of the editorial staff. This course may be taken twice for credit.

**Lecture:** 2 hours per week

**Recommended:** ENGL-101

**ENGL-210** Literary Analysis  
3 Credits

This course introduces the basic methods and theories of literary analysis, research, and writing. This course provides the critical vocabulary, skills, and methodologies with which to understand not only what a literary (or visual) text means, but also how it means. The course emphasizes the development of the skills necessary for analytical writing about literature and the importance of composing clear, compelling, and valid arguments in the interpretation of a text.

**Lecture:** 3 hours per week

**ENGL-216** Mythology  
3 Credits

This course surveys both Greek myths and themes common to all Western mythologies, particularly those of the hero quest. This course includes the study of a variety of stories, poems, plays, and films, and focuses on learning to identify the mythological elements at work within them. Mythology creates an awareness and appreciation of mythological stories and themes as a base for much of our literature and art; therefore, it enhances literary and artistic experiences.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**ENGL-257** Literature of Western Civilization  
3 Credits

This course examines significant literary works of Western Civilization from about 800 B.C. through Shakespeare. This course focuses on the values, traditions, themes, and ideas that have shaped Western culture and have influenced other disciplines such as art, psychology, and philosophy. This course helps link the basic concepts of early literature to the contemporary world.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**GEM 5**

**ENGL-258** Literature of Western Civilization  
3 Credits

This course is the study of Western (European and North American) classics from the mid-1600s to the present. This course includes internationally-acclaimed writers who are representative of the major literary movements (Enlightenment, Romantic, Realist, and Modernist traditions) and who are significant in shaping Western civilization. ENGL-258 serves as a foundation to the humanities through an exploration of writers and works that comprise the core of our literary and philosophical tradition.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**GEM 5**

**ENGL-267** Survey of English Literature  
3 Credits

This course is a study of historical documents, poetry, fiction, drama, and essays illustrating the development of English literature from the Anglo-Saxon period through the 18th century. This course enhances cultural literacy and awareness of pertinent issues in the humanities.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**GEM 5**

**ENGL-268** Survey of English Literature  
3 Credits

This course is a study of historical documents, poetry, fiction, drama, and essays illustrating the development of English literature from

the Romantic period to the present. This course enhances cultural literacy and awareness of pertinent issues in the humanities.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**GEM 5**

**ENGL-271 Introduction to Shakespeare**  
3 Credits

This course surveys major works of Shakespeare. Students will apply critical approaches to analysis of representative works among Shakespeare's poetry, tragedies, comedies, romances, and histories.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**GEM 5**

**ENGL-272 Business Writing**  
3 Credits

This course offers instruction in the practical application of business writing principles. It includes business writing strategies for memos, letters, and reports, and emphasizes audience analysis, content planning, language effectiveness, and message layout. ENGL-272 helps develop writing skills necessary for effective business communication.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-099 or an appropriate score on a placement test

**Recommended:** ENGL-101

**ENGL-277 Survey of American Literature**  
3 Credits

This course is a study of selected historical documents, journals, essays, poetry, and fiction illustrating the development of American literary ideas, values, and philosophy from the Colonial Period (1620) to the end of the Civil War (1865).

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**GEM 5**

**ENGL-278 Survey of American Literature**  
3 Credits

This course is a study of selected historical documents, journals, essays, poetry, fiction, and drama illustrating the development of American literary ideas, values, and philosophy from the Civil War (1865) to the present.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**GEM 5**

**ENGL-285 American Indian Literature**  
3 Credits  
(same as AIST-285)

This course explores traditional American Indian world views and belief systems as reflected in myths and legends, as well as contemporary poetry, short stories, and novels by Native Americans. The difference between American Indian and Eurocentric world views and the implications of these differences will be considered, as illustrated in literature. The course will also explore political, sociological, and psychological effects on American Indians of U.S. governmental policies and actions taken in regard to various tribes.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**GEM 5**

**ENGL-291 Creative Writing: Poetry**  
3 Credits

This course mined through exercises and discussions of student and professional writing. This course helps develop a personal, advanced writing style and an appreciation of literary forms. An above average writing ability and some familiarity with literature are necessary.

**Lecture:** 3 hours per week

**Recommended:** ENGL-101

**ENGL-292 Creative Writing: Fiction**  
3 Credits

This course introduces the principles and techniques of fiction writing, examined through exercises and discussions of student and professional writing. This course helps develop a personal, advanced writing style and an appreciation of literary forms. Above-average writing ability and some familiarity with literature are necessary.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**ENGL-293 Creative Writing: Literary Nonfiction**  
3 Credits

This course introduces the principles and techniques of literary nonfiction writing, examined through exercises and discussions of student and professional writing. This course helps develop a personal, advanced writing style and an appreciation of literary forms. Above-average writing ability and some familiarity with literature are necessary.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**ENGL-295 Contemporary U.S. Multicultural Literature**  
3 Credits

This course provides a study of fiction, nonfiction, poetry, and film across a diverse range of cultures in the United States. Selections each semester will include works from the 1960s to the present, including the perspective of women and men who may represent diverse races, ethnicities, social classes, religions, sexual orientations, ages and abilities. Since the Civil Rights movement, writers once marginalized are now published in the mainstream, expressing diverse themes in challenging, experimental styles.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**ENGL-296 Major Figures**  
3 Credits

This course offers a comprehensive study of the works of a major figure and that figure's contributions to literature and culture. Repeatable only with a change of topic. Major figures will vary from year to year.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**ENGLISH AS A SECOND LANGUAGE**

**ESL-100 ESL Grammar and Structure**  
4 Credits

This course is an intensive review of the grammar and sentence structures of written English. Particular attention is given to complex verb forms, verbal phrases, models, preposition, modifiers, and basic sentence strategies. Attendance at the language laboratory is required. This course prepares students to compete successfully with native English speakers in an academic setting and provides an important language base for students planning to enter English

composition courses. Students must have earned a minimum score of 500 on the Test of English as a Foreign Language (TOEFL). The course may be repeated for a total of eight credits. Placement is determined by instructor.

**Lecture:** 4 hours per week per credit

**Prerequisite:** Minimum score of 500 on the TOEFL

### **ESL-101** **ESL Composition** 3 Credits

This course helps non-native speakers of English to understand and produce the kind of academic writing required in college. Emphasis is on the most common and effective formats of academic writing and on editing for accuracy of expression, grammar, and sentence structure. This course is valuable for building fluency in written expression. It prepares students for success in competing with native English speakers in college writing courses. A working knowledge of English grammar and basic sentence strategies is required. Students must have earned a minimum score of 500 on the Test of English as a Foreign Language (TOEFL). The course may be repeated for a total of eight credits. Placement is determined by instructor.

**Lecture:** 3 hours per week

**Prerequisite:** Minimum score of 500 on the TOEFL

## **ENGLISH – CAREER AND TECHNICAL**

**NOTE:** These courses do not satisfy the requirements for Associate's Degree degree programs.

### **ECTE-100** **Fundamentals of Writing** 3 Credits

This course provides writing instruction that focuses on fluency, development, organization, revision, and editing/proofreading. As a part of this course, students will practice reading actively and critically, engaging in dialogues with texts, drafting essays in a format appropriate to purpose and audience, and utilizing a process approach to writing.

**Prerequisite:** An appropriate score on a placement test

## **ENTREPRENEURSHIP**

### **ENTP-105** **Entrepreneurship Skills** 3 Credits

This course provides an overview of the role of entrepreneurial businesses in the United States and the impact of those businesses on the national and global economy. Students evaluate the skills and commitment necessary to successfully operate an entrepreneurial venture. Additionally, students review the challenges and rewards of entrepreneurship as a career choice, as well as the entrance strategies needed to accomplish such a choice. As a key component of this course, students will generate a prospective business idea that can be honed in future entrepreneurship courses. Integrated course content to include: marketing, management, operations, finance, and computer skills and literacy.

**Lecture:** 3 hours per week

### **ENTP-115** **Entrepreneurship Opportunity Analysis** 3 Credits

This course provides students with the skills to assess the personal attributes, as well as the skills base, professional talent, and educational and work experiences within an organization that are necessary to create successful business ideas. Students examine the external environment to identify trends and needs in the marketplace for potential business opportunities. Each individual has the

opportunity to screen potential business ideas by assessing whether or not these compliment the individual and his/her organization based on an evaluation of its strengths and skills base, as well as the student's personal, professional, and financial goals. Students develop initial market feasibility analyses to test their concepts through basic market research.

**Lecture:** 3 hours per week

**Pre/Corequisite:** ENTP-105

### **ENTP-125** **Small Business Financial Management** 3 Credits

This course includes a focused approach on the financial and accounting aspects of operating and growing a business. Students will learn about options for capital and how to manage credit. This course also examines the relationship of managerial accounting to control cash flow and the decision-making functions of management. It includes a study of how costs are classified and analyzed for cost-volume-profit analysis (i.e. breakeven and target profit analysis). Students will also learn basic dual-entry accrual accounting theories, financial statement structure and cash flow projection. In addition, students will learn the basic tenets of establishing and evaluating budgets and the implementation of a strong internal control system.

**Lecture:** 3 hours per week

**Pre/Corequisite:** ENTP-105

### **ENTP-135** **Business and Marketing Plan Development** 3 Credits

This course is designed to enable students to manage and operate a small business. In this course, students will develop a business and marketing plan. The areas covered include developing a business plan, securing financing, developing advertising and promotional materials, choosing a site location, and managing the business. This course is beneficial for those planning to start a business as well as those already operating a business.

**Lecture:** 3 hours per week

**Pre/Corequisite:** ENTP-105

## **ENVIRONMENTAL SCIENCE**

### **ENSI-119** **Introduction to Environmental Science** 4 Credits

This course provides an excellent overview of many scientific disciplines including chemistry, biology and geology. Basic scientific principles are used to understand and address challenges faced in the environment including biodiversity loss, species extinction, the growth of human population, man's use of energy and water resources, toxicology, ocean acidification, global climate change and pollution of the environment.

**Lecture:** 3 hours per week

**Corequisite Lab:** ENSI-119L (2 hours per week)

**Prerequisite:** MATH-025 or an appropriate score on a placement test

**GEM 4**

### **ENSI-225** **International Environmental Issues** 3 Credits

This course will examine complex relationships between physical and social factors that contribute to unique regional variations and global significance of international environmental problems. The physical basis of major environmental issues including biodiversity, water resources and climate change will be discussed. In addition to physical and chemical factors, relationships of culture, demographics, geography, economics, history and politics will be explored as these factors may complicate a region's environmental problems.

Students will be required to use spatial and analytical data to communicate multifaceted international environmental problems and defend the economic feasibility, social/political acceptability and scientific basis of potential solutions. This global perspective will allow students to analyze and defend adaptation and mitigation strategies for these topics.

**Lecture:** 3 hours per week

**Recommended:** ENSI-119

## FIRE SERVICE TECHNOLOGY

### FST-100

48 Credits

### Fire Service Technology

This course will transcript the non-credit Idaho State Fire Fighters certification courses to 48 credits so they can be utilized as the technical skills course for the Fire Service Technology A.A.S. degree. These courses are delivered through fire departments statewide.

**Lecture:** 622 hours

**Lab:** 222 hours

## GEOGRAPHY

### GEOG-100

4 Credits

### Physical Geography

This course is an introduction to the Earth's physical systems and the interaction among the atmosphere, hydrosphere, biosphere, and lithosphere. It emphasizes the atmospheric sciences (weather and climate), landforms, water resources, and soils.

**Lecture:** 3 hours per week

**Corequisite Lab:** GEOG-100L (2 hours per week)

GEM 4

## GEOLOGY

### GEOL-101

4 Credits

### Physical Geology

This course is the study of the origin and development of the earth. It includes the detailed study of the development of the Earth's crust, its minerals, rocks, volcanoes, glaciers, mountains, and continents. This course provides an understanding of the natural and physical processes of the planet Earth and an appreciation for the impact geology has on everyday life.

**Lecture:** 3 hours per week

**Corequisite Lab:** GEOL-101L (2 hours per week)

GEM 4

### GEOL-102

4 Credits

### Historical Geology

This course is an introduction to the principles and interpretation of geologic history. It emphasizes the evolution of the Earth's lithosphere (crust), atmosphere, and biosphere through geologic time. This course includes consideration of the historical aspects of plate tectonics, the geologic development of North America, and important events in biological evolution and the resulting assembly of fossils. GEOL-102 provides an appreciation for the vast extent of geologic time, the natural processes affecting change on the Earth, and the identification of common fossil types.

**Lecture:** 3 hours per week

**Corequisite Lab:** GEOL-102L (2 hours per week)

**Recommended:** GEOL-101

GEM 4

### GEOL-123

4 Credits

### Geology of Idaho and the Pacific Northwest

This course is the study of the geologic history of Idaho and the Pacific Northwest. It provides a comprehensive overview of the major geologic provinces of the region and their genesis through geologic time. Lithologic and structural controls on topographic features are emphasized, as are current scientific and social issues directly related to the geology of various localities. Field trips to extraordinary locales illustrate landscape development in response to geologic change.

**Lecture:** 3 hours per week

**Corequisite Lab:** GEOL-123L (2 hours per week)

**Recommended:** GEOL-101

GEM 4

### GEOL-255

4 Credits

### Systematic Mineralogy

This is a study of the classification and determination of minerals by physical, chemical, and crystallographic and optical properties. It emphasizes occurrences, identification, and uses of the silicate minerals and the non-silicate ore and rock-forming minerals. The weekly three-hour laboratory includes hands-on testing and identification of mineral samples including utilizing their optical properties in oil mounts and thin section, and field trips to significant mineral locations. Students learn to recognize and identify important ore and industrial minerals, while gaining an appreciation for the application of mineral resources to everyday life.

**Lecture:** 3 hours per week

**Corequisite Lab:** GEOL-255L (3 hours per week)

**Prerequisites:** GEOL-101 and GEOL-101L

### GEOL-270

3 Credits

### Geology of National Parks

This course is designed to enhance student understanding of key geological concepts by examining features from selected national parks. Landscape genesis and evolution is studied in relation to the wider scope of regional geologic history. One three-day field trip is required.

**Lecture:** 3 hours per week

**Prerequisite:** GEOG-100, GEOL-101, GEOL-102, or GEOL-123

## GRAPHIC DESIGN/ VISUAL COMMUNICATIONS

**NOTE:** Course enrollment requires student to be a Graphic Design or Web Design major.

### GDES-101

2 Credits

### History of Graphic Design

This course introduces students to the characteristic manner of expressions, basic designs, various constructions, and execution of graphic design, and its visual aesthetics at particular times and places throughout history. The course covers how the look of graphic design has evolved and what caused this evolution, starting with commercial art at the beginning of the industrial revolution in the 19th century and ending with the current digital era.

**Lecture:** 1 hour per week

**Lab:** 2 hours per week

**GDES-102**                      **Survey of Graphic Design**  
*3 Credits*

This course introduces students to the characteristic manner of expressions, basic designs, various constructions, and execution of graphic design, and its visual aesthetics at particular times and places throughout history. The course covers how the look of graphic design has evolved and what caused this evolution, starting with commercial art at the beginning of the industrial revolution in the 19th century and ending with the current digital era.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**GDES-112**                      **Drawing for Designers**  
*2 Credits*

This course introduces students to the fundamentals of drawing for graphic designers. Topics and activities include hand-eye coordination, observation techniques, attention to format and proportion, perspective, and composition. Students will be introduced to current techniques used by working graphic designers. Students will be expected to complete a minimum of five projects.

**Lecture:** 1 hour per week

**Lab:** 3 hours per week

**GDES-120**                      **Typography**  
*2 Credits*

This course introduces the techniques used in typography, which is the visual communication of information through type. A historical perspective will trace the development of typography from its beginning to its current use in graphic design. Students will learn about the transition from traditional techniques and concepts to the creation of electronic documents utilizing quality typographic work. Attention to detail will be stressed so that students have an opportunity to acquire and demonstrate the use of the typographic skills necessary in today's graphic design work.

**Lecture:** 1 hour per week

**Recommended:** GDES-131

**GDES-131**                      **Adobe Illustrator – Vector Graphics**  
*3 Credits*

This course offers in-depth knowledge of the Adobe Illustrator for Graphic Design software program. Students are introduced to basic hardware and software, standard input and output devices, and basic troubleshooting in a graphic design environment. Students will explore the fundamental concepts associated with Illustrator and learn the basics of computer-aided illustration.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**GDES-132**                      **Adobe Photoshop - Raster Graphics**  
*3 Credits*

This course offers in-depth knowledge of the Adobe Photoshop - Raster Graphics software program. This course introduces students to basic hardware and software, standard input and output devices, and basic troubleshooting in a graphic design environment. In addition, students will gain experience in image creation and manipulation. This course will cover the fundamental concepts needed to scan, correct, manipulate, and enhance bitmap (Raster) images.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisite:** GDES-131

**GDES-133**                      **Adobe InDesign –**  
*3 Credits*                      **Layout and Composition**

This course offers in-depth knowledge of the Adobe InDesign software program. It introduces students to basic hardware and software, standard input and output devices, and basic troubleshooting in a graphic design environment. Students will also gain experience in typesetting and preparing single-page and multi-page layouts for publication.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-132

**GDES-141**                      **Web Development Basics**  
*3 Credits*

This course introduces the student to HTML, CSS and other essential web coding concepts in addition to the creation of pleasing graphical interface/web pages using industry graphic design software. Emphasis is placed on hands-on skills. Students will use standards-compliant HTML to create basic web pages, be able to use styles to format those web pages, and will demonstrate an understanding of advanced CSS selectors and properties. Students will demonstrate the ability to effectively design and layout web pages using CSS.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**GDES-213**                      **Digital Illustration**  
*2 Credits*

This course is a digital drawing fundamentals lab for graphic designers that includes working with a stylus and tablet, introduction to various media techniques, and conceptual integration with design and layout tools to achieve a knowledgeable broad project overview from start to finish. Students will be introduced to tools and digital paradigms used by working professionals in creating digital visuals in a timely manner applicable to graphic design, web, game design and video production. This course is meant to develop hands-on experience within a series of five projects constructed in class.

**Lecture:** 1 hour per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-132 and GDES-133

**GDES-221**                      **Graphic Design I**  
*3 Credits*

This course offers instruction in the principles of design. Students research case studies, use problem solving skills and techniques, and gain an understanding of basic layout composition and color theories in print, web, and video. Students develop concepts with rough layouts and comprehensive layouts on assigned projects including creation of their own business package. Field trips and student presentations support theories and concepts learned in the classroom.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisite:** GDES-131

**Recommended:** GDES-132

**GDES-222**                      **Graphic Design II**  
*3 Credits*

This course is a continuation of GDES-221 and is designed to give students more hands-on experiences in developing skills with tools, materials, and professional methods for creating professional

visuals. Students will learn to incorporate research, illustrations, and other graphics necessary to complete packaging, advertising proposals, and then present results individually and as a group. Continued emphasis is placed on computer applications and on assigned projects. This course is helpful in building visual literacy, expanding conceptual and technical skills, and improving creative problem solving.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-221

### **GDES-223** **Graphic Design III** 3 Credits

This course is a continuation of GDES-222 and provides hands-on exposure to a variety of complex visual design problems. Real life interaction with customers provides opportunities to best prepare students for future design careers. GDES-223 develops the creative use of computer technologies and requires working with clients for proposal submissions, presentations, and respect to stringent deadlines.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-222

### **GDES-225** **Introduction to Digital Video** 3 Credits

This course introduces students to the basic technical skills necessary for using digital video cameras, lighting equipment, and audio/video editing software used in conjunction with Apple hardware and software. The course covers the step-by-step processes necessary to create effective video projects including story boarding techniques and sequences related to a video production workflow. Individual and team video projects produced in a DVD and online format will be required.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-132 and GDES-221

### **GDES-226** **Computer Animation** 2 Credits

This course provides students with computer animation techniques using leading vector and Raster software commonly used in the graphic design and media industries. The end product is integrated into various existing and new media including web browsers, self-running applications such as DVDs, online, and interactive kiosks. It covers step-by-step process animation projects combining graphic design and professional video animation software.

**Lecture:** 1 hour per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-131 and GDES-132

### **GDES-245** **User Experience Design and Usability** 3 Credits

This course takes an in-depth look at the use of prototyping and usability testing and their impact on user experience on various design projects throughout the semester. Topics include: website planning and strategy, sketching, prototyping, wireframes, interaction design, web usability testing methods, reporting & presentation skills.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

### **GDES-247** **Social Media Design Strategies** 2 Credits

This course is specifically tailored to meet the needs of the web design professional. The class instructs the student on how to build a presence and leverage it across multiple iterations of modern social networking portals; creating a foundation for the current and future application of these portals in the business and creative environments.

**Lecture:** 1 hour per week

**Lab:** 3 hours per week

**Recommended:** GDES-222, GDES-225, GDES-246

### **GDES-250** **Prepress** 2 Credits

This course provides a systematic introduction to the complex print production process. By taking a step-by-step approach through simple, straightforward projects and examples, students will gain a better understanding of the essentials of digital color prepress. Students will learn which type of software to use for optimal results at each stage of the prepress process, the advantages and disadvantages of different proofing methods, and the steps graphic designers can take to ensure high-quality printed output. Students will experience both the theoretical and practical challenges of new prepress tools.

**Lecture:** 1 hour per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-222

### **GDES-255** **Design Concepts for the Web** 3 Credits

This course is a continuation of the Web Development Basics course and further utilizes HTML and CSS for designing and formatting online content for the web. This course will focus on contemporary web standards for interface development by reinforcing the separation of content from the presentation layer and focusing on end-user behavior. Students will use optimized graphic formats, typography, layout principles, and cascading styles to develop conceptual designs into fully working functional, live, interactive websites.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Pre/Corequisites:** GDES-221

### **GDES-258** **DOM Scripting for Designers** 3 Credits

This course introduces students to basic programming concepts through the use of ECMAScript (JavaScript) and the Document Object Model. Students will learn the history of ECMAScript and its role in contemporary websites and web applications. Basic and intermediate scripts will be created to solve common interface problems. Students will learn to evaluate existing libraries and scripts so that they can make informed decisions about their applicability for a given task. Students will learn best practices and unobtrusive DOM scripting techniques.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-222 and GDES-245

**GDES-260 Development for Mobile Devices**
**3 Credits**

This course is designed to bring students up to speed on designing for smaller platforms, namely mobile phones and handheld devices. Students will build upon foundational CSS to achieve adaptive layouts based on minimal viewports and discuss the importance of supporting this audience segment.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-255

**Corequisites:** GDES-245

**GDES-261 Applied Web Development**
**3 Credits**

This course is a project-oriented course that will apply knowledge from previous web design classes. Applied Web Development students will learn how to build dynamic, database-driven websites using PHP and MySQL. They will use PHP to transform static HTML web designs into functional dynamic web sites. Students will become proficient at server-side programming, form processing and validation, database queries and content management.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-260

**GDES-271 Design Projects**
**3 Credits**

This course includes the development of real-life design projects. Students will complete publishable projects while performing client-graphic designer interaction; designing pre-production, production, and marketing costs; and delivering projects to the customer in a variety of media for different markets. Students must be responsive to client-driven deadlines.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-131, GDES-132, GDES-133, and GDES-221

**GDES-283 Portfolio Development**
**3 Credits**

This course provides an overview of the graphic design profession, provides techniques to engage students in the first assembly of their graphic design professional resume and portfolio, and knowledge of essential job interview skills. The result of combining a first portfolio, while acquiring practical and relevant information about the industry, prepares students for internship opportunities. The course is designed to further prepare students toward clients' expectations, to stress deadlines, and to reinforce necessary technical learning. Assigned projects mirror real life assignments, including professional ethics, communication, and production costs.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** GDES-222

**GDES-290 Internship**
**1-6 Credits**

This course provides students with practical, on-the-job experience in preparation for a successful career in the graphic design field. The internship is paired with in-class learning and weekly meetings with the sponsoring instructor and designated business or agency. An internship is an excellent job market pathway. An exit portfolio review is scheduled at the completion of the course. GDES-290 can be repeated in order to earn a maximum of six credits in this course.

**Prerequisites:** Instructor permission

**HEALTHCARE INFORMATICS**
**HCIT-101 Health Information I**
**3 Credits**

This course is designed to introduce students to the roles and responsibilities found in the environment of health information management. Study will include methods of collecting and processing data in a variety of healthcare settings with a focus on accreditation and licensure guidelines; examine reimbursement and the correlation to coding systems; statistical analysis of patient information, examine storage, security, confidentiality, and compliance-related requirements; assess implementation of the electronic health record; and the role human resources and employees relating to employment practices, productivity, and evaluation.

**HCIT-110 SQL Fundamentals**
**3 Credits**

This course teaches students the fundamentals of database structure and SQL (Structured Query Language). They learn techniques useful for querying databases and they learn to apply their skills in realistic scenarios extracting data and organizing it into meaningful information. Students gain experience with database servers and client tools. Recommended: Familiarity with spreadsheets or databases.

**Recommended:** CAOT-130 and CAOT-140

**HCIT-210 Health IT Customer Service**
**3 Credits**

This course covers the development of skills necessary to communicate effectively across the full range of roles that will be encountered in health care and public health settings. This course also introduces how to use Lean Six Sigma decision-making processes, team-building principles and efficiency-boosting tools to do more without increasing costs.

**Lecture:** 3 hours per week

**Prerequisite:** CAOT-168

**HCIT-220 Healthcare Computer Technician Internship**
**3 Credits**

This course provides the sophomore student of the HCIT program supervised, structured training in healthcare computer technician skills through on-the-job experience in a healthcare-related facility. Students will gain insight and on-the-job work experience doing projects that would normally be assigned to the employer's entry-level support staff. Students are responsible for finding an appropriate internship site and permission of the instructor is required. This is a required course in the Healthcare Computer Technician program and is graded on a satisfactory/unsatisfactory basis. This course includes 135 hours of on-site work experience/approximately nine hours per week for 15 weeks in a healthcare-related facility.

**Work Site/Internship:** 9 hours per week

**Prerequisites:** CAOT-168, CAOT-180, CITE-114, HCIT-101

**Pre/Corequisites:** HCIT-210

**HEATING, VENTILATION,  
AIR CONDITIONING, AND  
REFRIGERATION**

**NOTE:** Course enrollment requires prior acceptance into the Heating, Ventilation, Air Conditioning, and Refrigeration program. Students enrolled in this program are required to earn a grade of C- or better in their classes or receive instructor permission in order to advance to the next semester.



**HVAC-161**  
3 Credits

This course is designed to explore the common aspects of HVACR technology. Discussion will focus on such topics as psychometrics, air distribution and balance, as well as system installation and controls. This is a required course in the HVACR program. Current industry professionals who want to update skills are invited to take this as a stand-alone course.

**HVAC-161L**  
5 Credits

This course provides an opportunity to apply and practice the theories taught in HVACR Principles, HVACR Electrical, and HVACR Heating Systems. Safety principles and procedures used in the field are also emphasized in this lab course. Students enrolled in the HVACR program are required to take this class concurrently with theory courses. Of the required five credits, a maximum of two credits can be substituted in an approved internship/co-op with instructor permission.

**HVAC-165**  
4 Credits

This course will discuss basic electrical safety and electrical theory such as Ohms Law, circuit schematics and circuit characteristics/symbols as it applies to DC and AC circuits in the HVACR industry. Basic control circuits, sequence of operation for basic HVACR applications and electric motor theory, as well as specific information on HVACR electrical component devices will also be covered. Both electrical testing and troubleshooting methods are taught and practiced. HVACR professionals are invited to take this course as a refresher to update skills. Students enrolled in the HVACR program are required to take this course as part of their program.

**HVAC-167**  
4 Credits

This course will focus on basic heat transfer theory and concepts. Specific areas of study include the different mediums used for heat transfer, electric heat systems, and fossil fuel systems (natural gas, propane, and fuel oil). Residential and light commercial system applications will be made throughout the program. Industry professionals who want to update skills are encouraged to take this as a stand-alone course. Students enrolled in the HVACR program are required to take this course as part of their program.

**HVAC-171L**  
5 Credits

This course provides students an opportunity to apply and practice the theories taught in HVAC Systems, HVACR Heating, HVACR Codes and Licenses, and HVACR Principles. Safety principles and procedures used in the field will be a major focus. Students enrolled in the HVACR program are required to take this course concurrently with theory courses. Of the required five credits, up to two credits can be substituted in an approved internship/co-op with instructor permission.

**HVAC-175**  
4 Credits

This course will focus on HVACR systems that utilize the refrigeration cycle. Refrigeration, as it applies to air conditioning, typical operation conditions, heat pumps, room air conditioners, furnaces, and AC combined will be covered. Students will have the opportunity to explore troubleshooting methods for HVACR systems. Students enrolled in the HVACR program are required to take this course as part of their program. Industry professionals who want to update skills are encouraged to take this as a stand-alone course.

**HVACR Principles****HVACR Lab I****HVACR Electrical****HVACR Heating****HVACR Lab II****HVACR Systems****HVAC-177**  
4 Credits

This course will introduce students to the refrigeration cycle. In addition, it will concentrate on the major components and flow control devices that are used in a refrigeration system. Major topics covered will include refrigeration and refrigerants, system evacuation, refrigerant management, system charging, evaporators, condensers, compressors, and flow controls. Focus will also be placed on applications and system troubleshooting practices. Students enrolled in the HVACR program are required to take this course as part of their program. Industry professionals who want to update skills are encouraged to take this as a stand-alone course.

**HVAC-180**  
3 Credits

This course provides information needed to successfully pass the Gas Fitter License exam and the EPA refrigerant license- Type II level. Students will have the opportunity to take both exams during the semester. Students enrolled in the HVACR program are required to take this course as part of their program. Current industry professionals that want to update skills are invited to take this as a stand-alone course.

**HVACR Codes and Licenses****HISTORY****HIST-101**  
3 Credits

This course explores important chapters of the human past from the earliest civilizations through the 15th century. The course considers how people, environment, social movements, religion, political ideologies, and philosophical ideas have shaped human society. This course is recommended for students seeking a broad background of general knowledge, whether as the foundation of a liberal arts education, out of curiosity, or to be well informed. It develops critical thinking skills essential in every career.

**Lecture:** 3 hours per week

**Recommended:** College-level reading and writing skills

**GEM 6**

**History of Civilization to 1500****HIST-102**  
3 Credits

This course explores important chapters of the human past from the Voyages of Discovery in the 15th century to the 20th century. The course considers how people, environment, social movements, religion, political ideologies, and philosophical ideas have shaped human society. This course is recommended for students seeking a broad background of general knowledge, whether as the foundation of a liberal arts education, out of curiosity, or to be well informed. It develops critical thinking skills essential in every career.

**Lecture:** 3 hours per week

**Recommended:** College-level reading and writing skills

**GEM 6**

**History of Civilization Since 1500****HIST-103**  
3 Credits

This course explores the history of the world in the 20th century, beginning with the Berlin Conference in 1885 and continuing to the present. Emphasis will be placed on the causes and effects of the two World Wars, the dynamics of the Cold War, the rise of terrorism, and the role of the nation-state. Students are expected to read and write at college level and are required to participate in discussions.

**Lecture:** 3 hours per week

**Recommended:** College-level reading and writing skills

**GEM 6**

**History of Civilization 20th Century**

**HIST-111****U.S. History to 1876****3 Credits**

This course offers a broad chronological overview of U.S. history with emphasis on the political, economic, social, and cultural currents from the Pre-Columbian period through post-Civil War Reconstruction (c. 1876). Attention is given to themes which illuminate current events.

**Lecture:** 3 hours per week**Recommended:** College-level reading and writing skills**GEM 6****HIST-112****U.S. History after 1876****3 Credits**

This course offers a broad chronological overview of U.S. History with emphasis on political, economic, social, and cultural currents from the Gilded Age (c. 1876) through the present. Attention is given to themes which illuminate current events.

**Lecture:** 3 hours per week**Recommended:** College-level reading and writing skills**GEM 6****HIST-131****History of Latin America****3 Credits**

This course provides a survey of the historical development of Latin America from pre-Columbian times to the present day. The course examines the origins and legacies of economic, religious, and political institutions and the cultural and social contributions of Native Americans, Africans, and Europeans. Students are expected to read and write at college level and will be required to participate in discussions.

**Lecture:** 3 hours per week**HIST-141****History of Africa****3 Credits**

This course is an introductory survey of Africa history from ancient times to the present. The course covers traditional political systems and culture, the impact of Christianity and Islam, the economic and political intrusion of Europe, and the development of economic and political crises in contemporary Africa.

**Lecture:** 3 hours per week**HIST-181****East Asian History and Civilizations****3 Credits**

This course is a survey of East Asian history and civilization from ancient times to the present with a focus on China, Korea, Japan, and Vietnam.

**Lecture:** 3 hours per week**Recommended:** College level reading and writing skills**HIST-207****Explorations in the History of Civilization****3 Credits**

This course provides an in-depth study of a historical period, geographical area, or historical theme. Topics will vary by semester and will be determined annually by history faculty. Reading, discussion, lectures, and media will focus on the issues and forces contributing to the chosen topic. See the class schedule for announcement of the semester's chosen topic(s).

**Lecture:** 3 hours per week**HIST-208****Explorations in U.S. History****3 Credits**

This course provides an in-depth study of a historical period, geographical area, or historical theme. Topics will vary by semester and

will be determined annually by history faculty. Reading, discussion, lectures, and media will focus on the issues and forces contributing to the chosen topic. See the class schedule for announcement of the semester's chosen topic(s).

**Lecture:** 3 hours per week**HIST-211****History of the Americas I: First Peoples and Colonial Period****3 Credits**

This course provides a comparative topical study of Indian cultures, European colonization, race relations, society, culture, economy, religion, and government in the Western Hemisphere from the first peoples to the wars of independence.

**Lecture:** 3 hours per week**Prerequisite:** ENGL-101**GEM 6****HIST-212****History of the Americas II: Since Independence****3 Credits**

This course provides a comparative topical study of the U.S., Canadian and Latin American nations from independence to the present within the broader context of the Western World. Emphasis will be placed on political, social and economic developments, minority experience and inter-American relations.

**Lecture:** 3 hours per week**Pre/Corequisite:** ENGL-101**GEM 6****HIST-223****History of the Pacific Northwest****3 Credits**

This course provides a chronological and thematic study of the Pacific Northwest from pre European contact through the present. The focus of the course is on the history of Oregon, Washington and Idaho. Emphasis is placed on the socio/cultural, economic, and political growth of the region and its role in the larger transnational landscape. Special attention will be given to the Inland Northwest within the greater Pacific Northwest.

**Lecture:** 3 hours per week**Prerequisite:** ENGL-101**HIST-240****American Indian History (same as AIST-240)****3 Credits**

This course provides a historical overview of post-contact Indian and non-Indian relations and their effect on Indian culture, including reactions, adaptations, and conflicts in social, political, and economic systems. Some emphasis will be placed on prominent Indian personages and geographical groups, their migrations and intertribal and U.S government relationships, including federal Indian policy. Students will gain a deeper sense of "nations" and an understanding of the importance of tribal heritage and identify from a historical perspective.

**Lecture:** 3 hours per week**Prerequisites:** ENGL-101**HIST-241****History of the Lands of the Bible****3 Credits**

This course provides an in-depth study of the social, political, and cultural developments of the lands of the Bible; ancient Mesopotamia, Syria, Palestine, and Egypt. The class will consist of reading, discussion, lectures and media focusing on the issues and forces contributing to the history of the lands of the Bible.

**Lecture:** 3 hours per week**Prerequisites:** ENGL-101**Recommended:** HIST-101

**HIST-243 History of Christianity I: Early and Medieval**  
*3 Credits*

This course provides an in-depth study of the history of early and Medieval Christianity to c. 1500. The class will consist of reading, discussion, lectures and media focusing on the issues and forces contributing to the history of Christianity from the first century to the fifteenth century.

**Lecture:** 3 hours per week

**Prerequisites:** ENGL-101

**Recommended:** HIST-101

**HIST-244 History of Christianity II: Since 1350**  
*3 Credits*

This course provides an in-depth study of the history of Christianity from fourteenth century to the present. The class will consist of reading, discussion, lectures and media focusing on the issues and forces contributing to the history of Christianity in the different regions of the Globe.

**Lecture:** 3 hours per week

**Prerequisites:** ENGL-101

**Recommended:** HIST-102

**HIST-261 Russia: History and Civilization Through Film and Fiction**  
*3 Credits*

This course surveys the history of Russia from earliest times to the present. It investigates political, economic, multi-national, social, and cultural aspects of Russian and Soviet history by reading historical literature, novels, and analyzing films.

**Lecture:** 3 hours per week

**Prerequisites:** ENGL-101

**HIST-263 Many Spains: Historical Origins of Hispanic Civilization (same as FLAN-263)**  
*3 Credits*

This course provides an in-depth study of the historical origins of Hispanic Civilization through the study of the history of the Iberian peoples. The class will consist of reading, discussion, lectures and media focusing on the social, cultural and historical forces that shaped the experience of the peoples that inhabit the Iberian peninsula.

**Lecture:** 3 hours per week

**Prerequisites:** ENGL-101

**HIST-271 Civilization of Ancient Greece and Rome (same as FLAN-271)**  
*3 Credits*

This course provides an in-depth study of the social, political, and cultural developments of the Mediterranean world during Greek and Roman times. The class will consist of reading, discussion, lectures and media focusing on the issues and forces contributing to the history and civilization of ancient Greece and Rome.

**Lecture:** 3 hours per week

**Prerequisites:** ENGL-101

**HIST-273 Europe in the Middle Ages (same as HIST-207E)**  
*3 Credits*

This course provides an in-depth study of the history of Europe between the 4th century and the 15th century. The class will consist of reading, discussion, lectures and media focusing on the issues and forces contributing to the history of Europe in the Middle Ages.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101

**HIST-282 Introduction to the History of Mexico**  
*3 Credits*

This course provides an introduction to the basic issues and themes of Mexican history from the pre-Hispanic era to the present. This course emphasizes how women, campesinos, indigenous populations, and the urban poor experienced and helped shape Mexican society.

**Lecture:** 3 hours per week

**Prerequisites:** ENGL-101

**HIST-290 The Historian's Craft**  
*3 Credits*

This course provides an introduction to the discipline of history, to basic skills for research methodology, and to major schools of historical writing.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101

**Pre/Corequisite:** ENGL-102

**HOSPITALITY**
**HOSP-100 Introduction to Hospitality and Tourism (same as RRM-100)**  
*3 Credits*

This course provides a general overview of hospitality management. It covers the growth and development, organization and structure, and all of the functional areas of the hospitality industry, including travel and tourism, lodging, food services, and recreation. Included are an explanation of both the management and operational functions of hospitality operations, a discussion of the personal and professional demands of hospitality management, examination of managing human resources, and an exploration of the future of the industry.

**Lecture:** 3 hours per week

**HOSP-102 Guest Focused Service**  
*3 Credits*

This course will show students how hospitality professionals create and deliver guest-driven service, enhance value, build guest loyalty, promote repeat business, and continuously improve the process of providing excellent service. Students will learn how every aspect of food service and lodging operations contribute to the guest experience.

**Lecture:** 3 hours per week

**HOSP-110 Front Office Procedures**  
*3 Credits*

This course details the flow of business through a hotel beginning with the reservation process and ending with check-out settlement. Included are examinations of how front desk activities and functions influence other departments and impacts management. The course also addresses ethics and general strategies when dealing with the public.

**Lecture:** 3 hours per week

**HOSP-111 Food Safety and Sanitation (same as CULA-111)**  
*3 Credits*

This course provides a clear understanding of daily procedures required to ensure that food is handled safely, avoiding contaminants that cause serious food-borne illnesses. Students will prepare for the ServSafe Managers Examination, earning a certification with a score of 75% or higher.

**Lecture:** 3 hours per week

**HOSP-117**
**3 Credits**

This course highlights the many career opportunities in the hospitality industry. Students learn the techniques necessary to gain employment such as resume writing, interviewing skills, appropriate interview attire, and networking.

**Lecture:** 3 hours per week

**Careers in Hospitality**
**Lecture:** 3 hours per week

**Prerequisites:** HOSP-100 and MATH-025 or an appropriate score on a placement test

**HOSP-140**
**3 Credits**

This course is an introduction to the principles of leadership and its relationship to management. Emphasis will be on leadership techniques, group dynamics, facilitation styles, problem solving, decision making, and communication techniques needed to inspire and influence. Students will apply leadership styles through experiential and group practice.

**Lecture:** 3 hours per week

**Leadership Principles  
(same as RRM-140)**
**HOSP-235**
**4 Credits**
**Food Appreciation**

This course provides a food appreciation laboratory experience where students will examine the different preparation and service methods of commercial food operation. Traditional restaurant menus will be prepared and evaluated for quality standards.

**Lecture:** 3 hours per week

**Lab:** 2 hours per week

**Recommended:** CULA-150 or HOSP-150

**HOSP-150**
**1 Credit**

This course provides practical skills and knowledge for safe food service in outlets ranging from cafeterias and coffee shops to room service, banquet areas, and high-check average dining rooms. On completion of this course, students will be certified in ServSafe.

**Lecture:** 1 hour per week

**Food Service Sanitation and Safety**
**HOSP-243**
**3 Credits**
**Sales and Marketing in the Hospitality Industry**

This course is designed to provide students with a solid background in hospitality sales and marketing. The main focus is on practical sales techniques for selling to targeted markets.

**Lecture:** 3 hours per week

**HOSP-202**
**1 Credit**

This course is an in-depth look at guest service. Upon completion, students will demonstrate a thorough understanding of guest driven service. Students who successfully complete a 30-question exam provided by the American Hotel and Lodging Association will be certified as a Guest Service Professional.

**Lecture:** 1 hour per week

**Guest Service Gold**
**HOSP-250**
**3 Credits**
**Risk Management  
(same as RRM-250)**

This course helps students appreciate and understand both the needs and techniques for identifying and managing risks to employees, guests, and property in the resort industry. This course focuses on identification and control of risk, incident investigation, and increasing employee and public awareness of potential risk. Enrollment in this course is restricted to career and technical students who are declared majors in a program for which it is required (see program requirements in current catalog).

**Lecture:** 3 hours per week

**Prerequisites:** HOSP-100 or RRM-100, HOSP-102, HOSP-140 or RRM-140, and HOSP-115 or RRM-290

**HOSP-215**
**3 Credits**

This course explores how to balance marketing and control objectives, plan the business, select and train employees, and establish and maintain control systems. As well as an in-depth look at a range of beverage products including beers, wine varieties, spirits, specialty coffees, and teas. Proper beverage presentation, food pairing, and extensive coverage of responsible alcohol service will be taught.

**Lecture:** 3 hours per week

**Recommended:** HOSP-100

**Bar and Beverage Management**
**HOSP-290**
**3 Credits**
**Hospitality Field Experience**

This course has students work under the supervision of a member of the management staff at a hospitality venue applying skills learned in the classroom. The student must demonstrate a minimum of entry-level competence as determined by the field experience supervisor and must document 135 hours at the job site.

**On-Site Training:** 135 hours

**Recommended:** HOSP-117

**HOSP-225**
**3 Credits**

This course identifies the elements of event planning and management. Students will learn about different types of events, venues, step-by-step planning, and the management skills required to communicate with various stakeholders in the process.

**Lecture:** 3 hours per week

**Event Planning and Management  
(same as RRM-225)**
**HUMS-101**
**3 Credits**
**Montage: Introduction to the Humanities**

This course explores how the humanities, through many varied types of creative works, comment on human experiences and raise questions of value and meaning. Students will learn an approach to understanding a wide variety of works in visual art, music, literature, and philosophy, based on questions applicable to all genres. The course is highly interactive, with frequent class discussion and informal written responses to works being explored. This course provides a good foundation for further humanities study in courses focusing on one particular field, such as literature, philosophy, or the arts. It is an ideal course for students who intend to focus on areas other than the humanities but wish to broaden their education.

**Lecture:** 3 hours per week

**Recommended:** College level reading and writing ability

**GEM 5**
**HOSP-230**
**3 Credits**

This course will focus on profit/cost margins, daily balance sheets, banking procedures, charting and forecasting products and services, personnel development and management, documentation systems, target marketing, and regulations governing the food and beverage industry. Students will learn to use management tools in analyzing operational effectiveness of hotel and restaurant organizations.

**Financial Management**
**HUMANITIES**

**HUMS-126**
*3 Credits*
**Film and Culture  
(same as CINA-126)**

This course presents films as artifacts of culture and history, examines North American and foreign films, and evaluates selected critical readings to promote meaningful comparative analysis. It focuses on becoming more critically aware of the rich and diverse forms of cinematic expression, developing an appreciation for our responses to visual imagery, and using basic concepts of film theory and cultural analysis to enrich our viewing experience. The concepts and methods introduced have applications to careers in broadcasting, graphic design, public relations, journalism, and corporate communications.

**Lecture:** 2 hours per week

**Corequisite Lab:** 1 hour per week (HUMS-126L)

**GEM 5**
**HUMS-200**
*3 Credits*
**Interdisciplinary Seminar  
(same as INTR-200)**

This course integrates a range of disciplines, including social sciences, the arts, history, literature, philosophy, and natural sciences, to explore issues related to community, sustainability and/or humanity's role in maintaining public and environmental health in the 21st century. Utilizing experiential learning, writing across the curriculum, reading, research, and special projects, students use problem-solving skills to explore these issues.

**Lecture:** 3 hours per week

**Pre/Corequisite:** ENGL-101

**GEM 5**
**HUMS-205**
*3 Credits*
**Visual Texts and Culture**

This course is an interdisciplinary introduction to the study of visual culture. Borrowing from literary, cultural, and critical theory, this course investigates visual texts (images) and how they construct, subvert, reinforce, or otherwise participate in the exchange of cultural meaning. Students will develop specific visual, written, and verbal skills for observing, analyzing, and describing visual artifacts in mediums including film, fashion, art, television, photography, the Internet, and other visual sources.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101

**Recommended:** HUMS-101

**HUMAN RESOURCES ASSISTANT**
**HRA-110**
*3 Credits*
**Diversity and Human Relations**

This course is designed to help human resources professionals recognize the need to incorporate diversity into all phases of the organization. Topics include understanding and valuing diversity, diversity in the workplace, managing diversity, cultural elements, and communication issues.

**Lecture:** 3 hours per week

**HRA-210**
*3 Credits*
**Recruiting, Selection, and Retention**

This course is designed to give students a basic understanding of the employment process. Emphasis is placed on legal compliance, planning, recruitment, selection, and retention. By the end of the course students should understand the fundamentals and legal aspects of various methods and techniques in recruiting, selection, and employment.

**Lecture:** 3 hours per week

**INDUSTRIAL MECHANIC/  
MILLWRIGHT**

**NOTE: Enrollment requires prior acceptance into the program. Successful completion of each semester and/or permission of the instructor is required for enrollment in the next semester.**

**MM-150**
*8 Credits*
**Industrial Mechanics I**

This course is an introduction to the principles of safety, hand and power tools, precision measuring, thread systems and fasteners, mechanical drive systems, equipment installation, and alignment.

**Lecture:** 8 hours per week

**Corequisite:** MM-151L, MM-155

**MM-151L**
*5 Credits*
**Industrial Mechanics Lab I**

This course applies the skills learned in MM-150, including safety practices, precision measuring, tool usage, mechanical drive systems, equipment installation, and alignment. Students will work on assigned tasks, projects, and performance tests.

**Lab:** 15 hours per week

**Corequisite:** MM-150, MM-155

**MM-152**
*7 Credits*
**Industrial Mechanics II**

This course provides instruction in the technical skills required in the safe use of SMAW, GMAW and GTAW welding, industrial electricity, pipe fitting, coupling maintenance and alignment, bearings, packings, seals, and pumps.

**Lecture:** 7 hours per week

**Prerequisite:** MM-150, MM-151L, MM-155

**Corequisite:** MM-152L, MM-156

**MM-152L**
*5 Credits*
**Industrial Mechanics Lab II**

This course applies the skills learned in MM-152 including exercises in welding, coupling alignment and maintenance, bearing maintenance, pipe fitting, electric motor and control maintenance, and pump maintenance. Exercises in hydraulics components and troubleshooting areas are also included.

**Lab:** 15 hours per week

**Prerequisite:** MM-150, MM-151L, MM-155

**Corequisite:** MM-152, MM-156

**MM-153**
*2 Credits*
**Industrial Mechanics III**

This course covers advanced welding, advanced hydraulics, safe rigging practices, preventative maintenance, lubrication, and industrial mechanic skills.

**Lecture:** 2 hours per week

**Corequisite:** MM-153L

**MM-153L**
*4 Credits*
**Industrial Mechanics Lab III**

This course applies the theory concepts learned in MM-153 including welding concepts, hydraulics, rigging practices, preventative maintenance, assigned tasks, projects, and related performance tests.

**Lab:** 22 hours per week

**Corequisite:** MM-153

**MM-155**

2 Credits

This course provides the necessary skills to understand industrial blueprints. Students will learn to read and understand title blocks, bills of materials, dimensions and notes, welding symbols, orthographic projection, auxiliary views, and section views.

**Lecture:** 2 hours per week**Corequisite:** MM-150, MM-151L**Industrial Blueprints**

GEM 7

**INTR-250C Integrative Business and Value Creation**

3 Credits

This course explores how organization and individuals turn resources and opportunity into value. It examines the functions and activities of business in contemporary society. Emphasis is placed on the terminology necessary to understanding business principles and practices. The course also includes an exploration of business environments, human resources, management, marketing management, finance, management information tools, and international marketing. Focus is on critical factors essential to understanding the interdependence between different facets of business operations. This course is useful for those non-business majors who need an overview of what the study of business encompasses.

**Lecture:** 3 hours per week**Prerequisite:** 30 credits; 100-level or higher

GEM 7

**MM-156**

3 Credits

This is a basic course in the fundamentals of fluid power. Students will learn how to effectively troubleshoot industrial hydraulic systems with emphasis on reservoirs, pumps, filters, directional flow and pressure control valves, cylinders, and motors.

**Lecture:** 3 hours per week**Corequisite:** MM-152, MM-152L**Industrial Hydraulics****INTERDISCIPLINARY STUDIES****INTR-200**

3 Credits

This course integrates a range of disciplines, including social sciences, the arts, history, literature, philosophy, and natural sciences, to explore issues related to community, sustainability and/or humanity's role in maintaining public and environmental health in the 21st century. Utilizing experiential learning, writing across the curriculum, reading, research, and special projects, students use problem-solving skills to explore these issues.

**Lecture:** 3 hours per week**Pre/Corequisite:** ENGL-101

GEM 5

**Interdisciplinary Seminar  
(same as HUMS-200)****INTR-250D**

3 Credits

This course introduces students to the social issues related to juvenile justice by applying a philosophical and sociological lenses. The course reviews the central reasons for society's treatment and understanding of juvenile offenders. The philosophical roots of belief systems regarding practices and treatment of juvenile offenders will be explored by completing a historical analysis of juvenile law and punishment. Philosophical and sociological theoretical models are applied to understand the causes of criminal behavior by examining the social factors that influence and shape belief systems and behaviors. Finally, the course concludes by examining theories for prevention of juvenile crime by understanding the interdependent role between juvenile justice systems and society, which will be demonstrated through a learning product, project, or presentation.

**Lecture:** 3 hours per week**Prerequisite:** 30 credits; 100-level or higher

GEM 7

**Juvenile Justice****INTR-250A**

3 Credits

This course explores the social, cultural, historical, and biological nature of human death and dying through the application of social scientific research methods. Topics include: decomposition, death rituals, cultural construction of death, mourning and bereavement, end of life issues, and the ethical implications of death and dying. Students will examine the variety of socio-cultural responses, historically and today, to the biological fact of death. In the process, students will be exposed to a diverse array of disciplines and apply knowledge gained to develop a community based research project.

**Lecture:** 3 hours per week**Prerequisite:** 30 credits; 100-level or higher

GEM 7

**Death and Dying: A Sociocultural,  
Historical, and Biological Perspective****INTR-250E**

3 Credits

This course explores various frameworks writers have used to contemplate and respond to natural spaces. Students will be encouraged to situate themselves as individuals and as a community within these frameworks and to create their own texts in response to the natural spaces around them both independently and collaboratively. Using the lenses of literature, ethics, and political discourse, students will encounter different ways of seeing natural spaces, and then will venture into nature to draft their own individual and collaborative creative texts in response to what they see while looking through these same lenses.

**Lecture:** 3 hours per week**Prerequisite:** 30 credits; 100-level or higher

GEM 7

**Writing in the Wild: Literature  
and Language of Natural Spaces****INTR-250B**

3 Credits

This course explores the ways humans live in, experience, process and record the physical environments in which they dwell. Through the lens of literature and philosophy, students will discover different ways that writers and thinkers have experienced their environments and recorded those experiences, along the way engaging in inquiry about how the digital age is shifting humans' sense of physical belonging-in-place. How has our cultural shift to the virtual (through video games, cell phones, social media, e-mail, etc.) changed our perceptions of what it means to be in the world? This is the central question that the class will explore.

**Lecture:** 3 hours per week**Prerequisite:** 30 credits; 100-level or higher**Physical and Virtual Environments****INTR-250F Integrative Inquiry: The Art of Presence**

3 Credits

This course is designed to develop reflective intrapersonal communication via the praxis of mindfulness, creativity, and reflection by grounding experiences through the integration of communication, psychology, and art. In this course, students will employ diverse forms of art as a means to develop self-awareness and mindful presence and to experience an authentic encounter between self and

other via a process that requires self-knowledge and self-acceptance. Creativity is one of the ways that the self can learn to become more present, as the act of creation requires the full attention of the self, immersed fully within the present moment.

**Lecture:** 3 hours per week

**Prerequisite:** 30 credits; 100-level or higher

GEM 7

### **INTR-250G Teaching and Learning in the Outdoors**

**3 Credits**

This course explores how humans' interests, attitudes, beliefs and skills are developed outside the walls of a schoolroom. Topics include: experiential learning, teaching, lesson design, assessment, quality assurance, safety, patterns of learning and development, standards, and ethical considerations for experiential education. The key question students will investigate: How do people teach and learn outside of the traditional classroom? In the process of active inquiry, students will be exposed to a diverse array of disciplines and apply knowledge gained to collaboratively design and implement a developmentally appropriate and challenging outdoor learning experience for others.

**Lecture:** 3 hours per week

**Prerequisite:** 30 credits; 100-level or higher

GEM 7

### **INTR-250H Manufacturing Desire: Persuasive Marketing and Message Creation**

**3 Credits**

This course provides students with copywriting, advertising campaign planning and messaging strategies in various circumstances as one would experience in a typical advertising agency or client-side marketing team. Through the lenses of business marketing and English composition rhetoric, students will create for themselves a professional portfolio which showcases their copywriting abilities for web, print, broadcast, direct mail, sponsorship, and other advertising platforms (this portfolio is typically required by potential employers for students pursuing copywriting careers at agencies and in-house marketing positions).

**Lecture:** 3 hours per week

**Prerequisite:** 30 credits; 100-level or higher

GEM 7

### **INTR-250I Page to Stage: Making Theatre From Scratch**

**3 Credits**

This course follows the creation of a theatrical production from the writing of a short play all the way to its production in front of an audience. Techniques and skills in writing, design, acting/performance, and technical theatre will be explored and developed. Students should be prepared for meeting outside of regular class meetings.

**Lecture:** 3 hours per week

**Prerequisite:** 30 credits; 100-level or higher

GEM 7

### **INTR-250J Psychology of Marketing**

**3 Credits**

This course is designed to investigate how social and behavioral science informs and impacts business and marketing fields. Psychology of Marketing will integrate sociological perspectives, analyze and evaluate consumer behavior from a psychological framework, and then address, from the perspective of both distribution and consumption, the strategies that are implemented by companies and

organizations. The course culminates in a learning product, project, or presentation that connects these multiple ways of knowing to the intricacies of marketing and consumer behavior.

**Lecture:** 3 hours per week

**Prerequisite:** 30 credits; 100-level or higher

GEM 7

### **INTR-250K**

### **Art and Social Justice**

**3 Credits**

This course explores the intersection of social justice and the arts. Through the lens of sociology, literature, and fine arts, students will examine theories of social justice, analyze a range of literary and artistic texts, explore the ways in which artistic expression interacts with social movements, and apply their knowledge in a collaborative culminating project.

**Lecture:** 3 hours per week

**Prerequisite:** 30 credits; 100-level or higher

GEM 7

### **INTR-250L Artistic Expression in the 20th Century**

**3 Credits**

This course explores changes in the arts occurring in the early 20th Century that freed visual artists, writers, and musical composers to express new ideas in innovative and abstract ways. Reviewing 19th Century developments in technology, such as the camera, telegraph, and phonograph, along with the ideas of influential thinkers of the time, sets the stage for studying artistic, literary, and musical works of such people as Pablo Picasso, T.S. Eliot, and Igor Stravinsky. Students will respond aesthetically to and will make connections among visual art, literature, and music through individual and cooperative assignments that include options for artistic expression.

**Lecture:** 3 hours per week

**Prerequisite:** 30 credits; 100-level or higher

GEM 7

### **INTR-250M Eastern Europe: Society Through Film**

**3 Credits**

This course explores the politics and social history of Eastern Europe through the analysis of motion picture media. Drawing upon social science context and research methods, various topics will be presented as they correspond with issues presented by key Eastern European films. Such topics include: foreign occupation, Sovietization, political economy, political movements, regime change, cultural and religious identity, separatism, civil wars and contemporary political institutions.

**Lecture:** 3 hours per week

**Prerequisite:** 30 credits; 100-level or higher

GEM 7

### **INTR-250N The Mathematics and Aesthetics of Musical Tuning**

**3 Credits**

This course will track the development of musical tuning from the ancient world through the advent of equal temperament. Students will examine the philosophical and aesthetic implication of these changes in terms of musical performance, our mathematical understanding of the world, and our world view in general. What is elegant? What is consonant? What is ugly? What is dissonant, chaotic, or asymmetric?

**Lecture:** 3 hours per week

**Prerequisite:** 30 credits; 100-level or higher

GEM 7

### INTR-2500 Leadership in Interprofessional Healthcare

3 Credits

This course prepares students across disciplines to work collaboratively to address issues in healthcare. Students will analyze how various forces in healthcare drive change. Topics include economics, evidence-based practice, quality improvement, and a culture of safety. Students will work collaboratively to solve problems in patient case studies and examine contributions across disciplines. Students will reflect on their learning processes and how they can utilize communication, teamwork, leadership, and change management skills effectively to contribute to solving issues.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisite:** 30 credits; 100-level or higher

GEM 7

### INTR-290 Internship

Credits arranged

This course is an off-campus experience designed to give students the opportunity to apply their chosen areas of interdisciplinary study to specific community-related or employment-related situations. The internship will be overseen by a faculty member either in the Interdisciplinary Studies program or in one of the student's main areas of study. Eight credits maximum can be applied toward graduation.

**Prerequisite:** Permission of the instructor

### INTR-299 Independent Study

Credits arranged

This course involves readings or projects integrating the student's two selected areas of study, designed under the supervision of a faculty member in the Interdisciplinary Studies program or in one of the student's main areas of study. Six credits maximum may be applied toward graduation. Contact the Registrar's Office for Independent Study guidelines.

**Prerequisite:** Sophomore standing (26 credits completed), 3.00 GPA, and permission of the instructor

## JOURNALISM

### COMJ-100 Sentinel (NIC Newspaper) Staff

1 or 2 Credits

This course provides a practical working environment to apply journalism theory and techniques. Enrolled students become staff members of *The Sentinel*, the national award-winning NIC student news organization. Sentinel students learn the mechanics of producing a newspaper and maintaining a multimedia website. Students must contribute in one or more of the following areas: reporting, editing, design, photography, illustrations, comics, website maintenance, mobile applications, and/or advertising. The course may be repeated for a total of 10 credits. Previous or concurrent news writing, photo, design, art, business and/or web page experience is advised in area(s) of interest.

**Lab:** 3 hours per week for 1 credit; 6 hours per week for 2 credits

**Recommended:** COMJ-121

### COMJ-121 Introduction to Media Writing

3 Credits

This course provides an introduction to the principles of writing and organizing stories for publication in print and electronic mediums. Students will develop and compose news stories, learn and adhere to industry-standard style guidelines, conduct meaningful

and appropriate research, and understand how the ethics, laws, and culture of journalism influence media coverage. Basic media-writing skills will enhance a student's ability to procure employment in print, broadcast, public relations, and corporate communication professions.

**Lecture:** 3 hours per week

**Pre/Corequisite:** ENGL-101

### COMJ-140 Mass Media in a Free Society

3 Credits

This course examines the development, successes and failures of today's American media. Students will learn to become media literate consumers of books, magazines, newspapers, film, television, the Internet and other modern formats. Media theories, public relations and advertising will also be discussed.

**Lecture:** 3 hours per week

GEM 6

### COMJ-222 Modern Reporting

3 Credits

This course provides practical experience learning and working with modern technology to enhance news coverage and reporting skills on a variety of platforms. Students learn to create and post multimedia and print content that adheres to journalistic standards and practices by maintaining a blog throughout the semester. Students learn skills that prepare them for advancement to upper division journalism coursework or careers in publishing content on a variety of platforms.

**Lecture/Lab:** 3 hours per week

**Prerequisite:** COMJ-121

### COMJ-255 Editing and Publishing

3 Credits

This course examines the principles of newspaper composition and the fundamentals of editing copy, photographs and videos. Students learn and practice the responsibilities of modern editors, which includes selecting and evaluating news content, copy editing news articles, writing headlines and photo captions, editing video footage and designing news pages. Ethical guidelines for the industry are also addressed. Skills gained contribute to portfolio development and career preparation.

**Lecture/Lab:** 3 hours per week

**Prerequisite:** COMJ-121

### COMJ-298 Journalism Practicum

2 Credits

Journalism Practicum provides on-the-job training and experience through averaging a four-hour weekly internship in a media-related workplace. Developed as a "contract" agreement between the student intern and a "host" organization with permission of the instructor, this practicum offers practical work experience supporting preparation for upper division college studies or career entry. Students seeking clarification of career direction or real-world experience will benefit. This course may be repeated for a total of eight credits.

**Time:** Varies according to project

## LAW ENFORCEMENT

**NOTE:** LAWE-103, LAWE-202, and LAWE-205 may be taken without being accepted into the Law Enforcement program. All other LAWE courses require application and acceptance into the program before enrolling.



**LAWE-103 Introduction to Criminal Justice**  
**3 Credits (same as CJ-103)**

This course offers an introduction to the purpose, function, and brief history of the agencies dealing with criminal justice, while presenting a survey of requirements for entering criminal justice service. Students discuss crime, the criminal, traffic, and vice as social problems; the function of the courts; prosecution and defense attorneys; correctional and penal institutions; and probation and parole. This course will introduce the student to the various agencies and employment opportunities within the criminal justice system.

**LAWE-151 Pre-Academy U.S. Laws**  
**1 Credit**

This course consists of 43 hours of self-paced CD instruction on U.S., State, and local laws that will be covered in more detail during the Basic Patrol Academy. This coursework consists of CD based lectures and quizzes the student will take upon completion of each of the segments. This CD coursework will be sent to the student upon their acceptance into the Basic Patrol Academy. This Pre-Academy coursework must be completed and turned in for grading one week prior to the start of the academy.

**LAWE-152 Pre-Academy Officer Investigation and Procedures**  
**1 Credit**

This course consists of 43 hours of self-paced CD instruction. This pre-academy coursework emphasizes specific procedures and general investigation techniques on major social issues they will encounter in Law enforcement. This coursework consists of CD lectures and quizzes the student will take upon completion of each of the segments. This CD coursework will be sent to the student upon their acceptance into the Basic Patrol Academy. This pre-academy coursework must be completed and turned in for grading one week prior to the start of the academy.

**LAWE-202 Corrections in America**  
**3 Credits (same as CJ-202)**

This course includes a survey of the historical, philosophical, and legal bases of correctional procedures and institutions and an examination of current problems and innovations.

**Prerequisites:** LAW-103 or CJ-103 or permission of instructor

**LAWE-205 Criminal Procedure**  
**3 Credits (same as CJ-205)**

This course includes an examination of the procedural aspects of criminal law. It will include specific applications of procedures by actors in the criminal justice process including police, prosecutors, defense attorneys, judges, and corrections officials. This examination will provide a basic understanding of state and local legal codes, as well as current applications of law in both arrest and search and seizure.

**LAWE-250 Self Defense**  
**2 Credits**

This course covers the use of force, baton training, pepper spray training, electroshock weapons, handcuffing techniques, people searches, firearms liability, safety, inspection and maintenance, basic marksmanship, day and night range practice, and handgun, carbine, and shotgun qualifications.

**Prerequisite:** Enrollment by permission only

**LAWE-251 Basic Police Law**  
**3 Credits**

This course is the study of basic police law as it relates to the U.S. Constitution, Idaho Codes, liquor laws, rules of evidence, criminal

law, arrest, search and seizure, traffic code, brand laws, and Idaho Fish and Game laws. After completing the course, students will be able to determine traffic offenses, criminal offenses, probable cause of arrest, and how to process cases.

**Prerequisite:** Enrollment by permission only

**LAWE-252 Professional Orientation for Peace Officers**  
**2 Credits**

This course emphasizes and studies the human dimensions of the police profession, including standards for police ethics and professionalism, media relations, crime prevention, and human relations.

**Prerequisite:** Enrollment by permission only

**LAWE-253 Police Procedures**  
**4 Credits**

This course teaches fundamental police skills such as searching buildings, operating emergency vehicles, Incident Command System (ICS), and writing reports. It also includes jail procedures, communication methods, officer survival, and courtroom demeanor and testifying. This course will also address issues related to homeland security, as well as gangs and other threat groups.

**Prerequisite:** Enrollment by permission only

**LAWE-254 Patrol Procedures**  
**2 Credits**

This course teaches patrol procedures and techniques for crimes in progress, including responding to armed robberies, unknown risk, high risk and felony traffic stops, prowler calls, hostage situations, and domestic disputes.

**Prerequisite:** Enrollment by permission only

**LAWE-255 Field Skills for Patrol Officers**  
**1 Credit**

This course provides an opportunity for students to demonstrate and utilize classroom skills in simulations and exercises in crime scene investigation, search warrant application, traffic stops, arrest situations, building search, and domestic disputes.

**Prerequisite:** Enrollment by permission only

**LAWE-256 Investigation**  
**3 Credits**

This course provides theory, techniques, and procedures for the investigation of traffic accidents, auto theft, juvenile crimes, allegations of child abuse, DUI situations, and suspicious deaths. It includes techniques and procedures for drug identification, protection of crime scenes, collecting evidence, fingerprinting, interviewing, notification, and interrogation.

**Prerequisite:** Enrollment by permission only

**LAWE-257 Enforcement Skills**  
**2 Credits**

This course provides hands-on training in handgun retention, defensive tactics/arrest and control techniques, handcuffing techniques, and handling hazardous materials.

**Prerequisite:** Enrollment by permission only

**LAWE-258 Police Physical Fitness**  
**1 Credit**

This course provides physical health and conditioning methods, focusing on a fitness lifestyle, and includes work on nutrition, agility, flexibility, and conditioning. Students must pass the Idaho P.O.S.T. Physical Readiness Test (PRT) prior to admission to the academy.

**Prerequisite:** Enrollment by permission only

**LAWE-290 Law Enforcement Theory**  
3 Credits

This course meets weekly to evaluate, critique, and document intern performance and experiences. It incorporates specialized or refresher training as needs arise during the intern experience.

**Prerequisites:** LAWE-250, LAWE-251, LAWE-252, LAWE-253, LAWE-254, LAWE-255, LAWE-256, LAWE-257, and LAWE-258

**LAWE-293 Law Enforcement Internship**  
10-12 Credits

This course is an internship experience with law enforcement agencies designed to match the student's abilities and career goals. Students will function in a law enforcement position under the direct supervision of a selected, experienced law enforcement officer. Students are evaluated on a daily basis in accordance with the agency's established training policies for new officers. Students will be expected to participate in the enforcement activities performed by the supervising officer.

**Prerequisites:** LAWE-250, LAWE-251, LAWE-252, LAWE-253, LAWE-254, LAWE-255, LAWE-256, LAWE-257, and LAWE-258

**MACHINING AND CNC TECHNOLOGY**

**NOTE: Enrollment requires acceptance into the program. Successful completion of each semester and/or permission of the instructor is required for enrollment in the next semester.**

**MACH-150 Machining Technology Theory I**  
6 Credits

This course consists of learning machining related terminology, measuring systems, measuring tool usage, cutter types, and cutter geometry. Some of the instruments used are hand tools, mechanical instruments, lathes, mills, and bench grinders. Students will use shop math for problem solving.

**Lecture:** 6 hours per week

**Corequisite:** MCTE-105, MACH-151L, MACH-171

**MACH-151L Machining Technology Laboratory I**  
6 Credits

This course consists of machining projects designed to promote machining skills on all shop machinery and hand tools. Projects are graded to assure that blueprint tolerances are met. Skills learned in theory sessions are transferred to the lab through projects. Students must acquire their own tools, but may use shop tools temporarily. A tool list is supplied to students at the beginning of the course.

**MACH-152L Machining Technology Laboratory II**  
5 Credits

This course consists of machining projects designed to promote machining skills on all shop machinery and hand tools. Projects are graded to assure that blueprint tolerances are met. Skills learned in theory sessions are transferred to the lab through projects. Students will use shop math for problem solving. Students must acquire their own tools, but may use shop tools temporarily. A tool list is supplied to students at the beginning of the course.

**Lab:** 15 hours per week

**Prerequisite:** MCTE-105, MACH-150, MACH-151L, MACH-171

**MACH-153 Precision Measuring**  
1 Credit

This course consists of learning terminology, measuring systems, and using measuring tools. Instruments used include hand tools, micrometers, calipers, scales, height gauges, and other measuring devices. Success is dependent on being able to read precision mea-

suring instruments and applying it to real manufactured parts as related to the machining industry.

**MACH-160 Manufacturing Processes**  
4 Credits

This course covers manufacturing strategies from interchangeability of common parts through various "waves" of production techniques including "lean manufacturing" as practiced in the Toyota production system and others. This course also includes an introduction to computer aided machining (CAM) and word address programming.

**Lecture:** 4 hours per week

**MACH-171 Blueprint Reading**  
2 Credits

This course is an introduction to identifying blueprint information, needed to produce a machined part, through the interpretation of lines, symbols, and numbers as shown on two and three view orthographic drawings. During the discussion of tolerances, geometric dimensioning and tolerancing will be introduced.

**Lecture:** 2 hours per week

**MACH-172 Blueprint Reading II**  
2 Credits

This course is a continuation of MACH-171 with an emphasis on more complex prints, geometric dimensioning, and tolerancing.

**MACH-201 Design for Manufacturing**  
1 Credit

This course will expose Computer Aided Design Technology - Mechanical students to basic manufacturing processes, concepts, and principles that will help prepare them with skills needed in the mechanical design industry. Students will be exposed to various manufacturing methods including machining, casting, welding, prototyping, and composites.

**Lecture:** 1 hour per week

**MACH-231 Computers in Machining**  
3 Credits

This course is designed to provide students with extensive experience with CAD/CAM systems. Students will use PCs to prepare for employment in the computerized manufacturing workplace with the opportunity to become certified in Master CAM Mill. Students will also explore other software applications commonly used in the workplace.

**MACH-253L Advanced Machining Laboratory I**  
5 Credits

This course is a hands-on learning experience using tools and techniques discussed in the first year machining program and MACH-253. Students will gain experience on CNC lathes, CNC mills, and precision grinders, as well as advanced technique practice on other manual machines.

**Prerequisite:** MACH-152L or instructor permission

**MACH-254L Advanced Machining Laboratory II**  
5 Credits

This course offers hands-on experience under work-like conditions and in-depth CNC and manual projects that build on skills acquired in MACH-253L. Upon successful completion of this course, students should have the necessary skills to be employed as an entry-level machinist.

**Prerequisite:** MACH-253L

**MACH-273 Intermediate Blueprint Reading**  
 3 Credits

This course will teach students to interpret advanced drawings and blueprints as well as make sketches with dimensions and additional information necessary to complete projects. Study of all types of section views, complex drawings, and unusual methods of drawing parts to better show features will also be completed. Students will receive hands-on experience sketching and interpreting sketches.

**Prerequisite:** MACH-172

**MACH-274 Geometric Dimensioning and Tolerancing**  
 3 Credits

This course introduces students to the concepts used in the machine trades known as geometric dimensioning and tolerancing. It builds on prior knowledge of blueprints and machined parts and applies that knowledge to “geometric toleranced” drawings. Students will learn the terminology and definitions of geometric dimensioning and tolerancing and how to apply its concepts.

**MACH-283 Computer Numerical Control Theory I**  
 5 Credits

This course introduces students to the standard practices and methods used in CNC machining for the CNC lathe and CNC milling machine. Students will be familiarized with the different types of controls and machines. Students will also learn basic programming, setup, and part production.

**Corequisite:** MACH-253L

**MACH-284 Advanced Machining Processes and Techniques**  
 5 Credits

This course will teach students more complex methods and setups as well as be exposed to other types of CNC machines. They will also learn precision grinding and finishing skills, tool and cutter grinding, fixturing, and production planning.

**Prerequisite:** MACH-283

**MATHEMATICS**

**NOTE:** Once placed in a mathematics course, students must pass that course with a C- or above before enrolling in the next course in the sequence. Courses in a sequence cannot be skipped once the student has been placed. Students should be prepared to provide a hard copy of their placement scores to their instructor.

**MATH-015 Basic Mathematics**  
 3 Credits

This course provides important skill building in basic computational skills, the language of mathematics, and problem solving required for pre-college level math courses. Students will be able to apply principles of whole number operations, fractions, decimals, percents, integers, ratio and proportion, and algebraic equations.

**Lecture:** 3 hours per week

**Prerequisite:** An appropriate score on a placement test

**MATH-025 Elementary Algebra**  
 3 Credits

This course provides an introduction to basic algebraic concepts. Students will be able to apply principles of integers, variables, polynomials, exponents, factoring, and solving and graphing first-degree equations. MATH-025 provides important skill-building for those who have not taken or have had difficulty with high school algebra.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-015 or an appropriate score on a placement test

**MATH-108 Intermediate Algebra**  
 4 Credits

This course provides development of algebraic concepts beyond MATH-025 or first year high school algebra. Students will be able to apply principles of linear, quadratic, and rational equations, radicals, circles and parabolas, complex numbers, functions, exponents, and logarithms. MATH-108 develops skills necessary for success in algebra-based, college-level math courses.

**Note:** MATH-108 carries no credit if taken after successful completion of higher numbered math courses with the exception of MATH-123 or MATH-130.

**Lecture:** 4 hours per week

**Prerequisite:** MATH-025 or an appropriate score on a placement test

**MATH-123 Contemporary Mathematics**  
 3 Credits

This course models the use of mathematics in real world situations. Students will be able to apply mathematical modeling principles to a variety of practical situations including personal finance, risk assessment, inferences, path analysis, linear programming, similarity and scaling, right-triangle trigonometry, game theory, and/or exponential growth.

**Lecture:** 3 hours per week

**Lab:** 1 hour per week

**Prerequisite:** MATH-025 or an appropriate score on a placement test

**GEM 3**

**MATH-130 Finite Mathematics**  
 4 Credits

This course provides practical insights into the important role of mathematics in the business world. Students will be able to apply principles of systems of linear equations and inequalities, linear programming, set theory, combinatorics, probability, and elementary concepts of statistics as they relate to decision making and problem solving.

**Lecture:** 4 hours per week

**Prerequisite:** MATH-108 or an appropriate score on a placement test

**GEM 3**

**MATH-143 College Algebra**  
 3 Credits

This course covers the definition of functions and their properties and notation in both an algebraic and graphical contexts. Students will be able to apply principles of polynomial and rational equations, functions and their inverses, graphs, systems of equations, complex numbers, sequences, and exponential and logarithmic functions. MATH-143 along with MATH-144 prepares students for traditional calculus courses which are required for degrees in mathematics, engineering, computer science, physics, chemistry, and other STEM related fields.

**Note:** The combination of MATH-143 and MATH-144 may be used in place of MATH-147 as the prerequisite for MATH-170.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-108 or an appropriate score on a placement test

**GEM 3**

**MATH-144 Analytic Trigonometry**  
 2 Credits

This course examines trigonometric concepts in terms of the Cartesian coordinate plane and the rectangular and polar coordinate systems. Students will be able to apply principles of angles, fundamental identities and identity verifications of trigonometry, and solving and graphing trigonometric functions. MATH-144 is

intended for students following a science, technology, engineering, or mathematics pathway. MATH-143 and MATH-144 cover the content of MATH-147.

**Note:** MATH-144 carries no credit if taken after successful completion of any higher numbered math course with the exception of MATH-157, MATH-160, MATH-253, or MATH-257.

**Lecture:** 2 hours per week

**Prerequisite:** MATH-143 or an appropriate score on a placement test

### **MATH-147**

*5 Credits*

### **Pre-Calculus**

This course is designed for the well-prepared mathematics student who wishes to condense the one-year sequence of MATH-143 and MATH-144 into one semester. Students will be able to apply principles of polynomial and rational equations, functions and their inverses, graphs, systems of equations, complex numbers, exponential and logarithmic functions, trigonometric functions, identities and graphs, applications of triangles, sequences and series, and polar coordinates. MATH-147 prepares students for calculus courses which are required for degrees in mathematics, engineering, computer science, physics, chemistry, and other STEM related fields.

**Note:** MATH-147 carries no credit if taken after successful completion of any higher numbered math course with the exception of MATH-157, MATH-253, or MATH-257. MATH-147 carries two credits if taken after MATH-143.

**Lecture:** 5 hours per week

**Prerequisite:** MATH-108 or an appropriate score on a placement test  
GEM 3

### **MATH-151**

*4 Credits*

### **Foundations for Statistics**

This course provides students with the prerequisite skills necessary for success in an inferential statistics course. It integrates intermediate algebra skills with sampling techniques and data analysis methods foundational for collecting, organizing, and summarizing data. Algebra topics include ratios, proportional reasoning, and solving proportional, linear, and radical equations. Data analysis methods include graphical and numerical descriptive techniques for quantitative and categorical data and modeling bivariate data with trend lines. Learning strategies emphasize conceptual understanding over mathematical calculations.

**Lecture:** 4 hours per week

**Prerequisite:** MATH-025 or an appropriate score on a placement test

### **MATH-157**

*3 Credits*

### **Mathematics for Elementary School Teachers I**

This course provides prospective elementary school teachers with a problem-solving approach to the topics of the elementary school math curriculum. Students will be able to apply principles and concepts of basic arithmetic operations on the set of real numbers. MATH-157 is required for elementary teacher certification by the State of Idaho.

**Lecture:** 3 hours per week

**Lab:** 1 hour per week

**Prerequisite:** MATH-143 or MATH-147 or an appropriate score on a placement test

### **MATH-160**

*4 Credits*

### **Survey of Calculus**

This course develops an understanding of the fundamentals of differential and integral calculus and the application of these principles and theories to the solution of real world problems. Students will be able to apply principles of functions, graphs, limits, derivatives,

exponential and logarithm functions, and integration. MATH-160 is the introduction to calculus as used in business, social sciences, and life sciences.

**Note:** MATH-160 carries no credit if taken after successful completion of any higher numbered math course with the exception of MATH-187, MATH-253, or MATH-257.

**Lecture:** 4 hours per week

**Prerequisite:** MATH-143 or MATH-147 or an appropriate score on a placement test

GEM 3

### **MATH-170**

*4 Credits*

### **Analytic Geometry and Calculus I**

This course provides an introduction to calculus as the mathematics of change and motion. Students will be able to apply principles of limits, derivatives, and integrals. MATH-170 builds a foundation for all further study typically required in mathematics, engineering, computer science, physics, chemistry, and other STEM related fields.

**Note:** MATH-170 carries no credit if taken after successful completion of a higher numbered math course with the exception of MATH-187, MATH-253, or MATH-257.

**Lecture:** 4 hours per week

**Prerequisites:** MATH-147, or MATH-143 and MATH-144 or an appropriate score on a placement test

GEM 3

### **MATH-175**

*4 Credits*

### **Analytic Geometry and Calculus II**

This course is a continuation of the calculus sequence. Students will be able to apply techniques of integration, applications of integration, polar coordinates, parametric equations, sequences, and series. MATH-175 is required for many mathematics, engineering, computer science, physics, chemistry, and other STEM related degrees.

**Note:** MATH-175 carries no credit if taken after successful completion of a higher numbered math course with the exception of MATH-187, MATH-253, MATH-257, or MATH-335.

**Lecture:** 4 hours per week

**Prerequisite:** MATH-170 or placement score MMT 70

### **MATH-187**

*4 Credits*

### **Discrete Mathematics**

This course provides an overview of mathematical topics applicable to the study of computer science. Students will be able to apply principles of basic set theory, propositional and predicate logic, number systems, Boolean algebra, combinatorics, and graph theory. MATH-187 is intended for computer science majors, mathematics majors, and for students wishing to pursue in-depth study of computer science.

**Lecture:** 4 hours per week

**Prerequisite:** MATH-147 or MATH-144 or an appropriate score on a placement test

**Recommended:** Knowledge of programming language such as C++ or Java

### **MATH-253**

*3 Credits*

### **Principles of Applied Statistics**

This course provides an introduction to statistical methods encompassing descriptive statistics and inferential statistics. Students will be able to apply principles of hypothesis testing for one and two samples, correlation and regression, chi-square, analysis of variance, and probability.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-130, MATH-143, MATH-147, or MATH-151 or an appropriate score on a placement test

GEM 3

**MATH-257 Mathematics for Elementary School Teachers II**
**3 Credits**

This course provides prospective elementary school teachers with a problem-solving approach to the topics of the elementary school math curriculum and is a continuation of MATH-157. Students will be able to apply principles of statistics, probability, geometry, and measurement. MATH-257 is required for elementary teacher certification by the State of Idaho.

**Lecture:** 3 hours per week

**Lab:** 1 hour per week

**Prerequisite:** MATH-157

**MATH-275 Analytic Geometry and Calculus III**
**4 Credits**

This course is the conclusion of the calculus course series. Students will be able to apply principles of vectors, vector-valued functions, partial differentiation, multiple integration, Green's Theorem, Stoke's Theorem, and the Divergence Theorem. MATH-275 is intended for STEM majors.

**Note:** MATH-275 carries no credit if taken after successful completion of MATH-370.

**Lecture:** 4 hours per week

**Prerequisite:** MATH-175

**MATH-335 Linear Algebra**
**3 Credits**

This course addresses vector spaces and linear mappings between such spaces. Students will be able to apply principles of linear systems, matrices, determinants, vector spaces, linear transformations, eigenvalues, and diagonalization of matrices. MATH-335 is intended for students seeking degrees in mathematics, computer science, or engineering.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-170

**MATH-370 Introduction to Ordinary Differential Equations**
**3 Credits**

This course addresses first, second, and higher order differential equations. Students will be able to apply a variety of techniques to solve ordinary differential equations, and systems of linear and non-linear equations. MATH-370 is intended for students seeking degrees in mathematics, physics, or engineering.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-175

**MATHEMATICS – CAREER AND TECHNICAL**

**NOTE:** These courses do not satisfy the requirements for Associate degree programs.

**MCTE-101 Technical Mathematics**
**3 Credits**

This course is designed as a basic math course for students in technical programs. Students will be able to apply principles of fractions, decimals, percents, ratio and proportion, calculator usage, integers, formula evaluation, equation solving, geometry, trigonometry and the metric system. MCTE-101 is intended for students in technical fields.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-015 or an appropriate score on a placement test

**MCTE-102 Computational Skills for Allied Health**
**3 Credits**

This course provides instruction in systems of metric and apothecary measurement. Students will be able to apply principles of measurement conversion, reduction, dimension analysis, drug orders and labels interpretation, oral parenteral and pediatric dosage calculation, intravenous (IV) calculations, ratio and proportion, linear equations, formulas, solutions, and mixture problems.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-025 or an appropriate score on a placement test and must be a Practical Nursing or Pharmacy Technology student.

**MCTE-103 Technical Mathematics for Aerospace Technology**
**3 Credits**

This course provides students with an overview of the mathematical concepts needed in the Aerospace Advanced Manufacturing certificated programs. Students will be able to apply principles of basic arithmetic, plane and angular geometry, area and volume of two- and three-dimensional solids, right-triangle trigonometry, and trigonometric functions.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-015 or an appropriate score on a placement test

**MCTE-104 Technical Mathematics for Auto/Diesel/Outdoor Power/Recreational Vehicles**
**3 Credits**

This course covers mathematical applications for specific technical programs. Students will be able to apply principles of fractions, decimals, percents, ratio and proportion, calculator usage, integers, formula evaluation, equation solving, geometry, the metric system, and measurement.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-015 or an appropriate score on a placement test

**MCTE-105 Technical Mathematics for Machining and Computer Aided Design Technologies**
**3 Credits**

This course covers mathematical applications of specific technical programs. Students will be able to apply principles of plane and angular geometry, congruent and similar figures, circles, right-triangle trigonometry, trigonometric functions, and vectors.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-015 or an appropriate score on a placement test

**MCTE-106 Technical Mathematics for industrial Mechanic/Millwright; Heating, Ventilation, Air Conditioning, and Refrigeration; Welding**
**3 Credits**

This course covers mathematical applications of specific technical programs. Students will be able to apply principles of fractions, decimals, percents, integers, ratio and proportion, the metric system, geometry, and right-triangle trigonometry.

**Lecture:** 3 hours per week

**Prerequisite:** MATH-015 or an appropriate score on a placement test

**MECHATRONICS**

**NOTE:** Course enrollment requires prior acceptance into the Mechatronics program. Successful completion of each semester and/or permission of the instructor is required for enrollment in the next semester.

**MECH-210 Mechatronics I**
**5 Credits**

This course introduces the fundamentals of mechatronics including theory concepts, troubleshooting, testing, and repair procedures.



medical assistant's role in assisting with adult and child health and wellness/illness examinations. Training will include equipment maintenance, quality control and procedures used in testing, and treatments performed in outpatient facilities. Students will recognize age and gender specific normal ranges for different tests.

**Lecture:** 1.5 hours per week

**Lab:** 4.5 hours per week

**Prerequisites:** MAST-100, MAST-101 and MAST-111

### **MAST-205 Administration of Medications** 3 Credits

This course provides the knowledge and skills necessary to safely administer medications in the ambulatory care setting. The use of aseptic technique and universal precautions procedures will be emphasized throughout the course. Students will define the principles of pharmacology and utilize standard math conversions in calculating medication dosages. Students will be expected to demonstrate proper administration of medications while complying with HIPAA and OSHA regulations, charting methodologies, and communication skills acquired in previous Medical Assistant courses. Students will be able to identify the top 50 drugs including their action(s), contraindications, schedule, pregnancy category, dosage range and patient education.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** MAST-100, MAST-101 and MAST-111

### **MAST-211 Administrative Skills II** 3 Credits

This course builds on the foundational knowledge provided in MAST-111 and provides students with a more in-depth understanding of the administrative aspects of working in a medical office environment. Students will learn the medical assistant's role in medical records management using paper and electronic formats. The course provides an introduction to health insurance programs, health care billing systems, medical office bookkeeping systems, and banking services. Students will engage in job preparation activities such as job search, completing applications, creating a resume, and mock interviews.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** MAST-100, MAST-101, and MAST-111

### **MAST-216 Medical Assistant Externship** 5 Credits

This course provides opportunities to observe, perform, and discuss various administrative and clinical competencies under supervision, with learning experiences obtained in selected physician's offices, clinics, or hospitals. The externship is a non-paid, supervised, 180 contact hour work experience course.

**Lecture:** 1 hour per week

**Lab:** 12 hours per week

**Prerequisites:** CAOT-168, CAOT-179, CAOT-186, MAST-100, MAST-101, MAST-111, MAST-201, MAST-205, MAST-211, and PHAR-150

### **MAST-230 Certified Medical Assistant Exam Review** 3 Credits

This course is designed to review the entire Medical Assistant program in preparation for the national CMA examination. Students will be able to identify and analyze information in the cognitive, affective and psychomotor domains of General, Administrative and Clinical knowledge of Medical Assisting.

**Lecture:** 3 hours per week

**Prerequisites:** CAOT-168, CAOT-179, CAOT-186, MAST-100, MAST-

101, MAST-111, MAST-201, MAST-205, MAST-211, and PHAR-150

## **MEDICAL LABORATORY TECHNOLOGY**

**NOTE:** Course enrollment requires prior acceptance into the Medical Laboratory Technology program. Successful completion of each semester and/or permission of the instructor is required for enrollment in the next semester.

### **MLT-100 Phlebotomy** 2 Credits

This course presents the theory and procedures for the practice of phlebotomy and waived laboratory testing as it applies to medical laboratory personnel. Phlebotomy and laboratory quality control measures for specimen collection in healthcare facilities will be emphasized throughout this course.

**Lecture:** 2 hours per week

**Pre/Corequisite:** MLT-124

### **MLT-112 Urinalysis and Other Body Fluids** 2 Credits

This course is an introduction to the study of urine and body fluid analysis. It includes the anatomy and physiology of the kidney, physical, chemical, and microscopic examination of urine, cerebrospinal fluid, and other body fluids as well as quality control, quality assurance, and safety. Fundamental principles of urine and body fluid analysis with correlation of laboratory methods and practice will also be covered.

**Lecture:** 2 hours per week

**Corequisite:** MLT-224

### **MLT-124 Medical Lab Fundamentals** 3 Credits

This course is an introduction to procedures used in the medical laboratory. Students will learn the application of basic techniques and instruments used in all areas of medical laboratories. These correlate with core MLT courses to include activities for phlebotomy, waived testing, urinalysis, hematology, chemistry, immunology, blood banking and microbiology.

**Lab:** 9 hours per week

**Pre/Corequisite:** MLT-100 or MAST-100, MLT-214 and MLT-222

### **MLT-214 Hematology and Hemostasis** 4 Credits

This course involves the study of blood cells in peripheral blood, bone marrow, and other body fluids. Concepts of normal and abnormal blood cell maturation, physiology, and morphology are examined as well as hemostasis (coagulation). The course is intended to be an introduction to routine laboratory methods and instrumentation with correlation of laboratory observations with disease conditions.

**Lecture:** 4 hours per week

**Corequisite:** MLT-124

### **MLT-218 Medical Lab Chemistry** 4 Credits

This course is an introduction to the basic theory and diagnostic procedures in medical chemistry. Basic principles and theory of biochemical and analytical tests and procedures used in the analysis of clinical specimens will be covered. This course emphasizes the correlation of specimen processing as well as analysis of test results and quality control data.

**Lecture:** 4 hours per week

**Corequisite:** MLT-225

**MLT-220 Medical Microbiology**
**5 Credits**

This course introduces basic practices and principles of diagnostic microbiology, focusing on pathogenic bacteria encountered in the blood, central nervous system, and genitourinary tract. It includes application of common algorithms for identification of clinically significant pathogens including aerobic gram-positive cocci, gram-negative bacilli, gram-negative cocci, gram-positive bacilli, and anaerobes. The course introduces principles and procedures of immunological and molecular diagnostic techniques and their application to the clinical lab.

**Lecture:** 5 hours per week

**Corequisite:** MLT-224

**MLT-222 Basic Concepts in Transfusion Medicine**
**4 Credits**

This course is an introduction to the basic theory and concepts of antigen-antibody reaction as they pertain to blood cell transfusions. Blood group antigens and the genetics of their inheritance are examined. Methods are introduced for performing blood grouping, compatibility testing, and component selection.

**Lecture:** 4 hours per week

**Corequisite:** MLT-124

**MLT-223 Immunology and Molecular Techniques**
**3 Credits**

This course offers an overview of the fundamentals of clinical diagnosis and management of disease by immunological and molecular biology laboratory methods. Normal immune function as well as pathological conditions and application to laboratory testing will be covered.

**Lecture:** 3 hours per week

**Corequisite:** MLT-224

**MLT-224 Advanced Medical Laboratory Technology  
Student Lab Practice**
**3 Credits**

This course included advanced practice of laboratory skills and procedures to reinforce theory gained in core MLT courses in preparation for clinical internships.

**Lab:** 9 hours per week

**Pre/Corequisite:** MLT-112, MLT-124, MLT-214, MLT-218, MLT-220, MLT-222, MLT-223, and MLT-225

**MLT-225 Parasitology, Mycology and Virology**
**2 Credits**

This course covers basic theory and clinical procedures used to isolate and identify intestinal, blood, and tissue parasites; dermatophytes, systemic and subcutaneous fungi, viruses, and mycobacteria.

**Lecture:** 2 hours per week

**MLT-250 Captstone Seminar and Exam Review**
**5 Credits**

This course provides a cumulative review of medical laboratory procedures and theoretical concepts from all phases of laboratory testing. Emphasis is placed on recall and application of theory, correlation, and evaluation of all areas of laboratory science. Upon completion, students should be prepared for national certification examinations. Students will apply their technical knowledge to laboratory case studies and to review major areas of the MLT curriculum with an emphasis on critical thinking skills. Students will have access to practice examination in preparation for certification examinations.

**Lecture:** 5 hours per week

**Pre/Corequisite:** MLT-100, MLT-112, MLT-124, MLT-214, MLT-218, MLT-220, MLT-222, MLT-223, MLT-224, MLT-225, MLT-291, and MLT-292

**MLT-291 Internship I**
**4 Credits**

This course provides the first cooperative learning experience in an affiliated clinical facility. Students will gain their first exposure to the clinical environment in a supervised application of learned theory and practice. Students will experience working with patients and performing procedures required of a medical laboratory technician. Specific detailed learning activities are developed to meet established clinical outcomes.

**Internship:** 12 hours per week

**Pre/Corequisite:** MLT-100, MLT-112, MLT-124, MLT-214, MLT-218, MLT-220, MLT-222, MLT-223, MLT-224, and MLT-225

**MLT-292 Internship II**
**4 Credits**

This course provides the final cooperative learning experience in an affiliated clinical facility. Students will complete their internship in a supervised clinical setting and apply learned theory and practice. Students will achieve competencies required of a medical laboratory technician. Specific detailed learned activities are developed to meet established clinical outcomes.

**Internship:** 12 hours per week

**Pre/Corequisite:** MLT-100, MLT-112, MLT-124, MLT-214, MLT-218, MLT-220, MLT-222, MLT-223, MLT-224, MLT-225, and MLT-291

**MILITARY SCIENCE**
**MSA-101 Introduction to Military Science**
**1 Credit**

This course is a basic introduction to military science. The course will introduce students to the mission and organization of the U.S. Army and provide background in role of an Army officer as a career choice in either the active Army or the National Guard/Reserves. Students will participate in lecture, conference, and activities dealing with military subjects and will have the option of participating in challenging outdoor activities such as whitewater rafting, mountaineering, rifle marksmanship, and rappelling. Texts and lab fees will be provided by the department. There is no mandatory uniform to wear. Students will also learn about available two- and three-year scholarships and other financial programs for which they may be eligible. Participation entails no military obligation.

**Lecture:** 1 hour per week

**Corequisite:** MSA-111

**MSA-111 Leadership Lab**
**1 Credit**

This course will build fundamental characteristics of leadership using a military model and hands-on training in small group leadership.

**Lab:** 2 hours every other week

**Corequisite:** MSA-101

**MSA-102 Fundamentals of Leadership  
and Management**
**1 Credit**

This course is a continuation of MSA-101. Students will develop a greater understanding of roles and responsibilities of Army officers. The course will consist of lecture, conference, and activities dealing with military subjects. Students will participate in challenging outdoor activities such as orienteering, mountaineering, and weapons qualification. Students will occasionally be required to wear a uniform. Texts, uniforms, and lab fees will be provided by the department. In this course there will be more focus on leader-



ship development and the development of personal confidence. Participation entails no military obligation.

**Lecture:** 1 hour per week

**Corequisite:** MSA-112

**MSA-112**  
1 Credit

**Leadership Lab**

This course will build fundamental characteristics of leadership using a military model and hands-on training in small group leadership.

**Lab:** 2 hours every other week

**Corequisite:** MSA-102

**MSA-151 Army Standard Physical Fitness Training I**  
2 Credits

This course will teach Army Standard Physical Fitness Training to students with class time emphasis on nutrition, healthy lifestyles, proper equipment fitting, diagnostic testing and risk assessment. Open to all NIC students who may take the course twice. ROTC contracted students are required to take the course twice.

**Activity:** 2 hours per week

**Lecture:** 1 hour per week

**MSA-201 Applied Leadership and Management**  
2 Credits

This course is the first of two courses designed to teach applied leadership and management. This course focuses on the application of leadership and management skills to various situations. Emphasis is placed on enhancing leader and communication skills by using a variety of hands-on training. The labs provide practical field training in a variety of outdoor skills (rappelling, rafting, rifle marksmanship, and orienteering) geared toward the application of classroom studies.

**Lecture/Lab:** 2 hours per week

**Prerequisite:** MSA-102

**Corequisite:** MSA-211

**MSA-202 Applied Leadership and Management**  
2 Credits

This course is the second of two courses designed to teach applied leadership and management. This course focuses on the application of leadership and management skills to various case studies. Emphasis is placed on enhancing leader and communication skills by using a variety of hands-on training at the infantry squad level. The labs provide practical field training in a variety of outdoor skills (rappelling, rafting, rifle marksmanship, and orienteering) geared toward the application of classroom studies.

**Lecture/Lab:** 2 hours per week

**Prerequisite:** MSA-201

**Corequisite:** MSA-212

**MSA-211**  
1 Credit

**Leadership Lab**

This course will build fundamental characteristics of leadership using a military model and hands-on training in small group leadership.

**Lab:** 2 hours every other week

**Corequisite:** MSA-201

**MSA-212**  
1 Credit

**Leadership Lab**

This course will build fundamental characteristics of leadership using a military model and hands-on training in small group leadership.

**Lab:** 2 hours every other week

**Corequisite:** MSA-201

**MSA-251 Army Standard Physical Fitness Training II**  
2 Credits

This course will teach Army Standard Physical Fitness Training to students with class time emphasis on nutrition, healthy lifestyles, proper equipment fitting, diagnostic testing and risk assessment. An emphasis will be placed on leadership and small group leader challenge in the PE training. Open to all NIC students who can take the course twice. ROTC contracted students are required take the course twice.

**Activity:** 2 hours per week

**Lecture:** 1 hour per week

**Prerequisite:** MSA-151

**MODERN LANGUAGES**

**One full year of high school study in a modern language is generally considered equivalent to one semester's work in college. To receive college credit for high school or independent work, a student must take an advanced placement examination in the target language and complete the next semester advanced level with a grade of C or better. Placement in and completion of the second elementary level (102) allows students to petition for credits for the 101 level; placement in and completion of the third semester level (201) allows students to petition for two elementary levels; and placement in and completion of the second semester level (202) allows students to petition for credits for the three semesters of the target language. While native speakers may take Modern Language courses at the 202 level, credit will not be offered to them at the 101, 102, or 201 levels.**

**ASL-101 Elementary American Sign Language I**  
5 Credits

This course is designed for students with no previous language study. It creates a visual-gestural environment to introduce to ASL grammar and vocabulary without presenting English equivalents. This course includes interactive activities, cultural awareness education, and individual feedback. Emphasis is on appropriate language use in common communication settings. ASL-101 will prepare students for ASL-102.

**Lecture:** 5 hours per week

**GEM 5**

**ASL-102 Elementary American Sign Language II**  
5 Credits

This course is designed for students continuing from ASL-101. It creates a visual-gestural environment to introduce to ASL grammar and vocabulary without presenting English equivalents. This course includes interactive activities, cultural awareness education, and individual feedback. Emphasis is on appropriate language use in common communication settings. ASL-102 will prepare students for intermediate ASL courses at other colleges/universities to satisfy cultural diversity and/or foreign language requirements (depending on the institution).

**Lecture:** 5 hours per week

**Prerequisite:** ASL-101

**GEM 5**

**ASL-126 Introduction to ASL Studies**  
3 Credits

This course is an introduction to, and overview of, different possibilities for students who pursue a degree with emphasis on ASL Studies. Included is an explanation of the ASL Studies program at NIC and requirements, transfer options, and career paths related to the degree.

**Lecture:** 3 hours per week

**Recommended:** ASL-184 and ENGL-101

**ASL-184**  
*2 Credits*
**Open Door ASL I**

This course is an 8-week, 2-credit class intended to be taken before ASL-185. This course focuses on the needs of those who are, or will be, working in the community in occupations where a basic knowledge of American Sign Language (ASL) and Deaf culture is needed. This course is ideal for non-degree seeking students and non-ASL Studies majors. The course is not designed as an alternative to the traditional ASL-101, 102, 201, 202 sequence, but will focus on the special vocabulary, basic grammatical structures, and cultural insights needed to effectively serve the ASL using community. Special emphasis is placed on signed proficiency as it related to various real-world applications. This one-semester course does not satisfy the prerequisite for ASL-102. It will be taught primarily in English.  
**Lecture:** 2 hours per week

**ASL-185**  
*2 Credits*
**Open Door ASL II**

This course is a continuation of ASL-184. ASL-185 will continue to focus on the special vocabulary, basic grammatical structures, and cultural insights needed to effectively serve the ASL using community. Special emphasis is placed on signed proficiency as it related to various real-world applications.  
**Lecture:** 2 hours per week  
**Prerequisite:** ASL-184

**ASL-201 Intermediate American Sign Language I**  
*4 Credits*

This course is designed for students continuing from ASL-102. It continues the learning process in visual-gestural environment and enforces linguistic/grammatical principles in the use of the target language. The English Glossing and Transcription systems will be introduced to help accelerate vocabulary acquisition. This course includes interactive activities, cultural awareness education, and individual feedback. Emphasis is on appropriate language use in common and uncommon communication settings.  
**Lecture:** 4 hours per week  
**Prerequisite:** ASL-102

**ASL-202 Intermediate American Sign Language II**  
*4 Credits*

This course is a continuation of ASL-201.  
**Lecture:** 4 hours per week  
**Prerequisite:** ASL-201

**ASL-207 Deaf Culture and Community**  
*3 Credits*

This course examines the works of prominent people and events that support the history and evolution of Deaf culture. Comparisons are drawn from broader, parallel, fundamental studies on language and culture. Materials emphasize current issues relating to language study and minority group dynamics. This course will also address dynamics within family groups and/or educational institutions, cross-cultural issues, culturally appropriate behavior in the Deaf community, and the structure and development of the Deaf community.  
**Lecture:** 3 hours per week  
**Prerequisites:** ASL-101 or ASL-184  
**Recommended:** ENGL-101

**ASL-210 Linguistics of ASL**  
*3 Credits*

This course is designed to examine the linguistic properties of ASL, including phonology, morphology, syntax, semantics, and

how signed languages differ and are similar to spoken languages. Students will be introduced to the linguistic and culturally based communication issues that impact the process between Deaf and hearing persons.  
**Lecture:** 3 hours per week  
**Prerequisites:** ASL-102  
**Recommended:** ENGL-101

**ASL-225 Introduction to Signing Professions**  
*3 Credits*

This course introduces students to signing professions and discusses employment options, sign systems, and ethical considerations for signers and professionals. Emphasis is also placed on the specific history, philosophy, terminology, and principles related to the interpreting field.  
**Lecture:** 3 hours per week  
**Prerequisites:** ASL-101  
**Recommended:** ENGL-101

**ASL-260 Creative Sign Language**  
*3 Credits*

This course is performance based and introduces sign language students to enhanced forms of signing beyond conversation. Features of ASL are integrated with common forms of literature performed in the community. Subjects include pantomime, storytelling, poetry, and songs of Deaf and hearing artists.  
**Lecture:** 3 hours per week  
**Prerequisites:** ASL-201  
**Recommended:** ENGL-101 and ASL-207

**CDA-101 Elementary Coeur d'Alene Language I**  
*5 Credits*

This course is an introduction to an American Indian language designed for students with no previous foreign language study. The course will include specialized methods of working with an unwritten language and emphasize pronunciation, beginning grammar, vocabulary-building, and an introduction to Coeur d'Alene Tribal culture.  
**Lecture:** 5 hours per week

**CDA-102 Elementary Coeur d'Alene Language II**  
*5 Credits*

This course is the second semester of an introduction to the native language of the Coeur d'Alene Tribe. It completes the outline of the major grammatical systems of the language.  
**Lecture:** 5 hours per week  
**Prerequisite:** CDA-101

**CDA-201 Intermediate Coeur d'Alene Language**  
*4 Credits*

This course provides training in conversational proficiency in an American Indian language. It features detailed discussion of grammar knowledge gained in CDA-101 and CDA-102 and insights into Coeur d'Alene culture revealed in the traditional oral literature.  
**Lecture:** 4 hours per week  
**Prerequisite:** CDA-102

**FLAN-106 Collaborative Cultural Exchange Program**  
*1-2 Credits*

This course is designed to match non-native speakers of English with American, or other native English students, to the mutual benefit of both. They will study and converse with one another

in a structured and monitored situation, working on projects in established courses and in short-term EFL programs. The course may be repeated for a total of three credits.

**Interactive Conversation Class:** 2-4 hours per week, depending on credits

**FLAN-207** **Contemporary World Cultures**  
3 Credits

This course examines a single national culture in terms of its historical background and expression in contemporary life, language, institutions, literature, art, music, and lifestyles. This course provides a basis for comparative cultural studies for students interested in multicultural or international scholarship. The national culture selected for study may change each semester, allowing students to repeat the course for elective credit.

**Lecture:** 3 hours per week

**GEM 5**

**FLAN-263** **Many Spains: Historical Origins  
of Hispanic Civilization**  
3 Credits  
(same as HIST-263)

This course provides an in-depth study of the historical origins of Hispanic Civilization through the study of the history of the Iberian peoples. The class will consist of reading, discussion, lectures and media focusing on the social, cultural and historical forces that shaped the experience of the peoples that inhabit the Iberian peninsula.

**Lecture:** 3 hours per week

**Prerequisites:** ENGL-101

**FLAN-271** **Civilization of Ancient Greece  
and Rome**  
3 Credits  
(same as HIST-271)

This course provides an in-depth study of the social, political, and cultural developments of the Mediterranean world during Greek and Roman times. The class will consist of reading, discussion, lectures and media focusing on the issues and forces contributing to the history and civilization of ancient Greece and Rome.

**Lecture:** 3 hours per week

**Prerequisites:** ENGL-101

**FREN-101** **Elementary French I**  
5 Credits

This course includes the introductory study of vocabulary, grammar, and pronunciation. It emphasizes the development of proficiencies in speaking, reading, listening, and writing. Students will enhance their understanding of the language, culture, and geography of the Francophone world.

**Lecture:** 5 hours per week

**GEM 5**

**FREN-102** **Elementary French II**  
5 Credits

This course is a continuation of FREN-101, emphasizing further development of basic language fluency. A laboratory is included in the course.

**Lecture:** 5 hours per week

**Prerequisite:** FREN-101 or appropriate language placement test score

**GEM 5**

**FREN-105** **Open Door to French II**  
2 Credits

This course is a continuation of FREN-104. This course is designed to meet the linguistic needs of the community.

**Lecture:** 2 hours per week

**Prerequisite:** FREN-104

**FREN-201** **Intermediate French I**  
4 Credits

This course provides training in the acquisition and application of basic language skills and culture.

**Lecture:** 4 hours per week

**Prerequisite:** FREN-102 or appropriate language placement test score

**FREN-202** **Intermediate French II**  
4 Credits

This course provides additional training in the acquisition and application of basic language skills and culture.

**Lecture:** 4 hours per week

**Prerequisite:** FREN-201 or appropriate language placement test score

**ITAL-101** **Elementary Italian I**  
5 Credits

This course includes the introductory study of vocabulary, grammar, and pronunciation. It emphasizes the development of proficiencies in speaking, reading, listening, and writing. Students will enhance their understanding of the language, culture, and geography of Italy. A laboratory is included in the course.

**Lecture:** 5 hours per week

**GEM 5**

**ITAL-102** **Elementary Italian II**  
5 Credits

This course is a continuation of ITAL-101, emphasizing further development of basic language fluency. Students will enhance their understanding of the Italian language and culture, as well as the physical and political geography of Italy. A laboratory is included in the course.

**Lecture:** 5 hours per week

**Prerequisite:** ITAL-101 or appropriate language placement test score

**GEM 5**

**SPAN-101** **Elementary Spanish I**  
5 Credits

This course includes the introductory study of vocabulary, grammar, and pronunciation. It emphasizes the development of proficiencies in speaking, reading, listening, and writing and a better understanding of the language, culture, and geography of the Hispanic world. A lab is included in the course.

**Lecture:** 5 hours per week

**GEM 5**

**SPAN-102** **Elementary Spanish II**  
5 Credits

This course is a continuation of SPAN-101, emphasizing further development of basic language fluency. A laboratory is included in the course.

**Lecture:** 5 hours per week

**Prerequisite:** SPAN-101 or appropriate language placement test score

**GEM 5**

**SPAN-184** **Open Door to Spanish I**  
2 Credits

This course is designed for students who wish to learn elementary communication skills in Spanish. Subjects discussed include traveling, food, lodging, and shopping. Students will gain practical conversation skills and become familiar with cultural differences likely to be encountered in the Hispanic world.

**Lecture:** 2 hours per week

**SPAN-185** **Open Door to Spanish II**  
2 Credits

This course is a continuation of SPAN-184.

**Lecture:** 2 hours per week

**Prerequisite:** SPAN-184

**SPAN-201** **Intermediate Spanish I**  
4 Credits

This course further develops Spanish fluency with emphasis on conversation, reading, grammar, and composition. The culture and literature of Spain and Latin America are included. This course provides a continuation and refinement of language skills and greater depth in the study of cultural aspects. Laboratory work is included.

**Lecture:** 4 hours per week

**Prerequisite:** SPAN-102 or appropriate language placement test score

**SPAN-202** **Intermediate Spanish II**  
4 Credits

This course is a continuation of SPAN-201. Laboratory work is included.

**Lecture:** 4 hours per week

**Prerequisite:** SPAN-201 or appropriate language placement test score

**SPAN-205** **Intermediate Spanish Conversation**  
3 Credits

This course is for students who wish to further their conversational skills in Spanish at the intermediate level. The emphasis is on the development of oral and written discourse skills, and on the acquisition of cultural and linguistic knowledge related to specific Spanish-speaking countries. This course is conducted entirely in Spanish.

**Lecture:** 3 hours per week

**Pre/Corequisite:** SPAN-202

**MUSIC – APPLIED****MUSA-112** **Introduction to Voice**  
1 Credit

This course is designed to provide group instruction in the basic techniques of vocal performance. This course will emphasize reading musical notation and vocal production. Students enrolling need no prior musical background. This course may be repeated for credit.

**MUSA-114A** **Individual Instruction: Voice**  
2 Credits

This course provides individual instruction for non-majors in voice. Individual instruction in voice can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114B** **Individual Instruction: Piano**  
2 Credits

This course provides individual instruction for non-majors in piano. Individual instruction in piano can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114C** **Individual Instruction: Jazz Piano**  
2 Credits

This course provides individual instruction for non-majors in jazz piano. Individual instruction in jazz piano can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114D** **Individual Instruction: General Guitar**  
2 Credits

This course provides individual instruction for non-majors in general guitar. Individual instruction in general guitar piano can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114E** **Individual Instruction: Classical Guitar**  
2 Credits

This course provides individual instruction for non-majors in classical guitar. Individual instruction in classical guitar piano can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114F** **Individual Instruction: Flute**  
2 Credits

This course provides individual instruction for non-majors in flute. Individual instruction in flute piano can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114G** **Individual Instruction: Oboe**  
2 Credits

This course provides individual instruction for non-majors in oboe. Individual instruction in oboe can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114H** **Individual Instruction: Clarinet**  
2 Credits

This course provides individual instruction for non-majors in clarinet. Individual instruction in clarinet can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114I** **Individual Instruction: Saxophone**  
2 Credits

This course provides individual instruction for non-majors in saxophone. Individual instruction in saxophone can assist students of all

levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114J Individual Instruction: Bassoon**  
2 Credits

This course provides individual instruction for non-majors in bassoon. Individual instruction in bassoon can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114K Individual Instruction: Trumpet**  
2 Credits

This course provides individual instruction for non-majors in trumpet. Individual instruction in trumpet can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114L Individual Instruction: Horn**  
2 Credits

This course provides individual instruction for non-majors in horn. Individual instruction in horn can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114M Individual Instruction: Trombone**  
2 Credits

This course provides individual instruction for non-majors in trombone. Individual instruction in trombone can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114N Individual Instruction: Euphonium**  
2 Credits

This course provides individual instruction for non-majors in euphonium. Individual instruction in euphonium can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114O Individual Instruction: Tuba**  
2 Credits

This course provides individual instruction for non-majors in tuba. Individual instruction in tuba can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114P Individual Instruction: Violin**  
2 Credits

This course provides individual instruction for non-majors in violin. Individual instruction in violin can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114Q Individual Instruction: Viola**  
2 Credits

This course provides individual instruction for non-majors in viola. Individual instruction in viola can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114R Individual Instruction: Cello**  
2 Credits

This course provides individual instruction for non-majors in cello. Individual instruction in cello can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114S Individual Instruction: String Bass**  
2 Credits

This course provides individual instruction for non-majors in string bass. Individual instruction in string bass can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114T Individual Instruction: Electric Bass**  
2 Credits

This course provides individual instruction for non-majors in electric bass. Individual instruction in electric bass can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114U Individual Instruction: Percussion**  
2 Credits

This course provides individual instruction for non-majors in percussion. Individual instruction in percussion can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week

GEM 7

**MUSA-114V**                      **Individual Instruction: Harp**  
*2 Credits*

This course provides individual instruction for non-majors in harp. Individual instruction in harp can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week  
**GEM 7**

**MUSA-114W**                      **Individual Instruction: Banjo**  
*2 Credits*

This course provides individual instruction for non-majors in banjo. Individual instruction in banjo can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week  
**GEM 7**

**MUSA-114X**                      **Individual Instruction: Organ**  
*2 Credits*

This course provides individual instruction for non-majors in organ. Individual instruction in organ can assist students of all levels to improve their performance abilities. Special fees apply. Two credits requires one half-hour lesson per week. This course requires public performance and may be repeated for credit.

**Lecture/Lab:** One half-hour session per week  
**GEM 7**

**MUSA-124A**                      **Individual Instruction: Voice**  
*2 or 4 Credits*

This course provides instruction in voice. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.  
**Prerequisite:** MUSA-114A or permission of instructor

**MUSA-124B**                      **Individual Instruction: Piano**  
*2 or 4 Credits*

This course provides instruction in piano. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.  
**Prerequisite:** MUSA-114B or permission of instructor

**MUSA-124C**                      **Individual Instruction: Jazz Piano**  
*2 or 4 Credits*

This course provides instruction in jazz piano. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.  
**Prerequisite:** MUSA-114C or permission of instructor

**MUSA-124D**                      **Individual Instruction: General Guitar**  
*2 or 4 Credits*

This course provides instruction in general guitar. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.  
**Prerequisite:** MUSA-114D or permission of instructor

**MUSA-124E**                      **Individual Instruction: Classical Guitar**  
*2 or 4 Credits*

This course provides instruction in classical guitar. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.  
**Prerequisite:** MUSA-114E or permission of instructor

**MUSA-124F**                      **Individual Instruction: Flute**  
*2 or 4 Credits*

This course provides instruction in flute. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.  
**Prerequisite:** MUSA-114F or permission of instructor

**MUSA-124G**                      **Individual Instruction: Oboe**  
*2 or 4 Credits*

This course provides instruction in oboe. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.  
**Prerequisite:** MUSA-114G or permission of instructor

**MUSA-124H**                      **Individual Instruction: Clarinet**  
*2 or 4 Credits*

This course provides instruction in clarinet. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.  
**Prerequisite:** MUSA-114H or permission of instructor

**MUSA-124I**                      **Individual Instruction: Saxophone**  
*2 or 4 Credits*

This course provides instruction in saxophone. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of

all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114I or permission of instructor

**MUSA-124J Individual Instruction: Bassoon**  
*2 or 4 Credits*

This course provides instruction in bassoon. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114J or permission of instructor

**MUSA-124K Individual Instruction: Trumpet**  
*2 or 4 Credits*

This course provides instruction in trumpet. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114K or permission of instructor

**MUSA-124L Individual Instruction: Horn**  
*2 or 4 Credits*

This course provides instruction in horn. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114L or permission of instructor

**MUSA-124M Individual Instruction: Trombone**  
*2 or 4 Credits*

This course provides instruction in trombone. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114M or permission of instructor

**MUSA-124N Individual Instruction: Euphonium**  
*2 or 4 Credits*

This course provides instruction in euphonium. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114N or permission of instructor

**MUSA-124O Individual Instruction: Tuba**  
*2 or 4 Credits*

This course provides instruction in tuba. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114O or permission of instructor

**MUSA-124P Individual Instruction: Violin**  
*2 or 4 Credits*

This course provides instruction in violin. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114P or permission of instructor

**MUSA-124Q Individual Instruction: Viola**  
*2 or 4 Credits*

This course provides instruction in viola. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114Q or permission of instructor

**MUSA-124R Individual Instruction: Cello**  
*2 or 4 Credits*

This course provides instruction in cello. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114R or permission of instructor

**MUSA-124S Individual Instruction: String Bass**  
*2 or 4 Credits*

This course provides instruction in string bass. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114S or permission of instructor

**MUSA-124T Individual Instruction: Electric Bass**  
*2 or 4 Credits*

This course provides instruction in electric bass. This course is designed for music majors and requires prior musical experience.

Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114T or permission of instructor

**MUSA-124U Individual Instruction: Percussion**  
2 or 4 Credits

This course provides instruction in percussion. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114U or permission of instructor

**MUSA-124V Individual Instruction: Harp**  
2 or 4 Credits

This course provides instruction in harp. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114V or permission of instructor

**MUSA-124W Individual Instruction: Banjo**  
2 or 4 Credits

This course provides instruction in banjo. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114W or permission of instructor

**MUSA-124X Individual Instruction: Organ**  
2 or 4 Credits

This course provides instruction in organ. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour lesson per week for 4 credits.

**Prerequisite:** MUSA-114X or permission of instructor

**MUSA-124Z Individual Instruction: Composition**  
2 or 4 Credits

This course provides instruction in composition. This course is designed for music majors and requires prior musical experience. Individual instruction in an area of choice can assist students of all levels to improve their performance skills. A jury examination is required. Special fees apply. It may be repeated for credit. The number of credits must be approved by the instructor.

**Lecture/Lab:** One half-hour lesson per week for 2 credits; one one-hour

lesson per week for 4 credits.

**Prerequisite:** Permission of instructor

**MUSA-130 Introduction to Piano**  
1 Credit

This course is designed to provide group instruction at the piano keyboard. The emphasis of this course is on reading music and playing melody with simple chord accompaniment. Students enrolling need no prior musical background. This course may be repeated for credit.

**GEM 7**

**MUSA-145 Piano Class I**  
1 Credit

This course is designed for music majors and minors preparing for a keyboard competency exam. Emphasis is on developing basic piano technique, music-reading skills, and reinforcement of music theory fundamentals. Music selections range from classic to contemporary. This class may be repeated for a maximum of two credits.

**Lecture:** 2 hours per week

**Pre/Corequisite:** MUSC-141 or permission of instructor

**GEM 7**

**MUSA-146 Piano Class II**  
1 Credit

This course is a continuation of MUSA-145 and prepares music majors and minors preparing for a keyboard competency exam. Technique, sight reading, harmonization, transposition, improvisation, and piano literature are areas of emphasis. This class may be repeated for a maximum of two credits.

**Lecture:** 2 hours per week

**Prerequisite:** MUSA-145 or permission of instructor

**MUSA-245 Piano Class III**  
1 Credit

This course is a continuation of MUSA-146 and prepares music majors and minors preparing for a keyboard competency exam. Further development of technique, sight reading, harmonization, improvisation, and repertoire with addition of score reading is emphasized. This class may be repeated for a maximum of two credits.

**Lecture:** 2 hours per week

**Prerequisite:** MUSA-146 or permission of instructor

**MUSA-246 Piano Class IV**  
1 Credit

This course is a continuation of MUSA-245 and prepares music majors and minors preparing for a keyboard competency exam. Emphasis will be on reviewing previously acquired phases in technique, sight reading, harmonization, transposition, improvisation, and score reading. More complex harmonies will be introduced. The piano repertoire is at an intermediate level. A minimum grade of C- is required to complete pretesting requirements. This class may be repeated for a maximum of 2 credits.

**Lecture:** 2 hours per week

**Prerequisite:** MUSA-245 or permission of instructor

**MUSIC – COMPOSITION**

**MUSC-117 Music Convocation**  
0 Credit

This course is concert attendance that is required for all music majors. Attendance at ten concerts is required each semester.



**MUSC-120 Fundamentals of Music**  
*3 Credits*

This course is an introduction to the basic materials of music. Areas explored are acoustics, rhythmic and melodic notation of music, scales, keys, and basic harmony. Fundamentals of Music is for the novice or experienced musician who wants to develop or refresh music reading skills.

**Lecture:** 3 hours per week

**MUSC-126 Improvisation**  
*1 Credit*

This course is an introductory course in the elements of music improvisation. Although a basic musical element in jazz, improvisation is used in every genre of music, including classical. This course is designed to study the theory and practice of improvisation. Elements of melodic structure, harmonic understanding, and musical structure will be studied in this course. Students will form small ensembles and practice elements of improvisation in the lab.

**Lecture:** 1 hour per week

**Lab:** 1 hour per week

**MUSC-141 Harmony and Theory I**  
*3 Credits*

This course is the study and application of the basic materials of music in four-part harmony. Emphasis is placed upon a thorough knowledge of the fundamentals of music, development of composition skills, and beginning analysis skills. It deals with harmonic practice from the year 1600 on. This course fulfills a theory requirement for music majors.

**Lecture:** 3 hours per week

**Corequisite:** MUSC-141L

**MUSC-141L Harmony and Theory I Laboratory**  
*1 Credit*

This course assists students in the development of aural skills such as sight-singing, rhythmic, melodic, and simple harmonic music dictation, and recognition. Emphasis is on materials covered in MUSC-141. This course expands upon musical understanding developed in MUSC-141.

**Lecture:** 2 hours per week

**Corequisite:** MUSC-141

**MUSC-142 Harmony and Theory II**  
*3 Credits*

This course is a continuation of MUSC-141, emphasizing expanded use of harmonies in writing and analysis.

**Lecture:** 3 hours per week

**Corequisite:** MUSC-142L

**Prerequisite:** MUSC-141

**MUSC-142L Harmony and Theory II Laboratory**  
*1 Credit*

This course is a continuation of MUSC-141L.

**Lecture:** 2 hours per week

**Corequisite:** MUSC-142

**Prerequisite:** MUSC-141L

**MUSC-241 Harmony and Theory III**  
*3 Credits*

This course is a continuation of MUSC-142 with an emphasis on writing and analysis of music through the Romantic era.

**Lecture:** 3 hours per week

**Corequisite:** MUSC-241L

**Prerequisite:** MUSC-142

**MUSC-241L Harmony and Theory III Laboratory**  
*1 Credit*

This course is a continuation of MUSC-142L.

**Lecture:** 2 hours per week

**Corequisite:** MUSC-241

**Prerequisite:** MUSC-142L

**MUSC-242 Harmony and Theory IV**  
*3 Credits*

This course is a continuation of MUSC-241 with emphasis on writing and analysis of music in the 20th century.

**Lecture:** 3 hours per week

**Corequisite:** MUSC-242L

**Prerequisite:** MUSC-241

**MUSC-242L Harmony and Theory IV Laboratory**  
*1 Credit*

This course is a continuation of MUSC-241L.

**Lecture:** 2 hours per week

**Corequisite:** MUSC-242

**Prerequisite:** MUSC-241L

**MUSIC – HUMANITIES**
**MUSH-101 Survey of Music**  
*3 Credits*

This course is an introduction for students (majors and non-majors) to musical styles of our civilization. The study will include music of different periods and its cultural context, including a study of the American culture and the present musical scene. This course is designed to enhance students' musical appreciation through an increase in musical knowledge.

**Lecture:** 3 hours per week

**GEM 5**

**MUSH-127 Survey of American Popular Music Since 1900**  
*3 Credits*

This course is an introduction for students (majors and non-majors) to the various styles of American popular music, including its roots and development. Music will be presented with regard to its historical and social implications. Study includes Dixieland, swing, bebop, fusion, musical theatre, country western, and all types of rock 'n' roll. This course is designed to enhance musical appreciation through an increase in musical knowledge.

**Lecture:** 3 hours per week

**GEM 5**

**MUSH-163 Survey of World Music**  
*3 Credits*

This course explores several musical cultures throughout the world, including but not limited to Africa, the Americas, Asia, Near East, Europe and South Pacific. The course is designed to enhance students' appreciation for the diversity of music throughout the world as well as the people that perform it. Students gain an understanding of features in the music that distinguish one style from another and the cultural and social-historical factors that shape the development of music. Lectures, films, recordings

and live presentations assist students in their understanding of course topics. Although knowledge of music is helpful, a music background is not required for this course.

**Lecture:** 3 hours per week

GEM 5

## MUSIC – PERFORMANCE

### **MUSP-103** North Idaho College Cardinal Chorale *1 Credit*

This course is North Idaho College's large vocal ensemble organized to perform standard and mixed choir arrangements. This course may be taken as an ensemble elective for music majors and it may be repeated for credit. Credit may be transferrable. Choir membership is open to college students and area residents.

GEM 7

### **MUSP-104** Vocal Jazz Ensemble *1 Credit*

This course is a small group that performs studio quality popular and swing jazz music. It provides a choral learning atmosphere with an emphasis on small group dynamics, solo performance, and an aggressive singing style. This course is for students interested in an intense study of the vocal jazz form. It may be repeated for credit.

**Prerequisites:** Audition and permission of instructor

GEM 7

### **MUSP-106** North Idaho College Wind Symphony *1 Credit*

This course is an instrumental ensemble designed to perform traditional and contemporary concert band literature. Band membership is open to college students and area residents. This course provides students and area residents a chance to enhance their music appreciation through musical performance. It may be repeated for credit.

GEM 7

### **MUSP-107** Cardinal Pep Band *1 Credit*

This course is an instrumental ensemble designed to perform at athletics events and other school events. It may be repeated for credit.

**Lecture:** 2 hours per week

**Prerequisites:** Audition and permission of instructor

GEM 7

### **MUSP-110** Vocal Ensemble *1 Credit*

This course introduces students to literature for the particular type of ensemble and includes involvement in regular public performances with other small ensembles. It is designed to provide a variety of vocal experiences for the student: chamber choral, male quartet, mixed quartet, female trio, duets, musical theater, etc. Ensemble membership is open to college students and area residents. This course may be repeated for credit.

**Prerequisites:** Audition and permission of instructor

GEM 7

### **MUSP-111** Instrumental Ensemble *1 Credit*

This course consists of instrumental ensembles that are small groups of brass, woodwind, string, percussion, pit orchestra, or mixed instruments organized to perform a standard chamber music repertoire. Credit may be transferable and can be repeated for credit. Ensemble membership is open to college students and area residents.

**Prerequisites:** Audition and permission of instructor

GEM 7

### **MUSP-113** North Idaho Jazz Ensemble *1 Credit*

This course is a group designed to perform jazz literature in all 20th century styles. Ensemble membership is open to college students and area residents. This course provides students and area residents a vehicle for jazz appreciation through performance. It may be repeated for credit.

**Prerequisites:** Audition and permission of instructor

GEM 7

## MUSIC-TECHNOLOGY

### **MUSX-215** Introduction to Digital Recording and Notation *1 Credit*

This course is an introduction to the use of digital recording and digital notation softwares on Macintosh computers for use in music recording, playback, and printing. The course provides musicians training in current technological advances important to the field of music.

**Lecture:** 1 hour per week

### **MUSX-216** Advanced Digital Recording and Notation *1 Credit*

This course is a continuation of MUSX-215 with an emphasis on mastery of advanced computer editing skills using digital recording and digital notation softwares.

**Lecture:** 1 hour per week

**Prerequisite:** MUSX-215

## NURSING: PRACTICAL NURSING

**NOTE:** Course enrollment requires prior acceptance into the Practical Nursing program.

### **PN-106** Practical Nursing Theory I *6 Credits*

This course includes an introduction to the fundamentals of nursing and therapeutic skills. A lifespan approach will be used to assist students in the theory of oxygenation, circulation, nutritional, fluid, elimination, activity, and safety needs of patients of all ages. Growth and development and an introduction to pediatric and geriatric care will be included.

**Prerequisite:** Acceptance into the Practical Nursing program

### **PN-106L** Practical Nursing Laboratory I *6 Credits*

This course correlates PN-106 theory with supervised practice in providing patient care utilizing the campus laboratory for skills practice and clinical settings such as long term care facilities, behavioral health centers, and home health agencies for actual practice. It comprises a progression of nursing skills.

**Prerequisite:** Acceptance into the Practical Nursing program

### **PN-107** Practical Nursing Theory II *8 Credits*

This course explores nursing responsibilities in more complex diseases of major body systems. Medical-surgical, perinatal, and pediatric nursing are included. IV therapy, including phlebotomy and blood administration, is also included.

**Prerequisites:** BIOL-175, PN-106, and PN-106L

**PN-107L Practical Nursing Laboratory II**  
*6 Credits*

This course correlates PN-107 theory with practice in clinical settings. Students may rotate through medical-surgical, perinatal, pediatric units, operating room, recovery room, short stay unit, minor care, EKG, respiratory therapy, clinics, and physician offices. IV therapy is included with certification.

**Prerequisites:** BIOL-175, PN-106, and PN-106L

**PN-108 Practical Nursing Theory III**  
*3 Credits*

This course covers emergency nursing, oncology, advanced concepts of geriatric care and nursing management/leadership. A review of all previous nursing theory will be provided.

**Prerequisites:** PN-107 and PN-107L

**PN-108L Practical Nursing Laboratory III**  
*5 Credits*

This course is a supervised clinical experience that takes place in various health care settings including acute care hospitals, nursing homes, and physicians' offices. Students complete a clinical preceptorship in a chosen field of interest.

**Prerequisites:** PN-107 and PN-107L

**NURSING: REGISTERED NURSING**

**NOTE:** Enrollment requires prior acceptance into the program.

**NURS-115 Wellness for Care Providers**  
*1 Credit*

This course prepares students entering the Associate's Degree Nursing Program to maintain self-care as a priority, providing a foundation for subsequent nursing courses. Students will become familiar with the roles and responsibilities of the professional nurse in self-care and learn positive ways in which nurses can contribute to the culture of quality and safety in healthcare.

**Lecture:** 1 hour per week

**GEM 7**

**NURS-196 LPN Transition**  
*4 Credits*

This course is intended for students who are Licensed Practical Nurses and are seeking advanced placement in the Associate's Degree Nursing Program at North Idaho College. The course consists of 30 hours of lecture and includes both classroom and online components. The course is designed to provide content from the first year nursing courses that is not typically covered in LPN programs. The course content includes legal/ethical issues, teaching/learning principles, therapeutic communication, group and nursing process, and dosage calculations. The 90-hour clinical component is designed to transition the LPN to the RN student role, as well as introduce the student to the ADN program requirements.

**Lecture:** 3.75 hours per week for 8 weeks

**Lab:** 11.25 hours per week for 8 weeks

**NURS-198 Nursing Practice Clinical Practicum**  
*1 Credit*

This course provides students with opportunities to apply the theory and skills from preceding nursing courses in clinical nursing practice. Patient care experience in an acute care health setting allows students to further develop skills in critical thinking and application of the nursing process, effective communication with patients, family and other health care providers, and implementing

therapeutic nursing interventions. This course may be repeated twice for credit.

**Lab:** 45 hours per two-week block

**NURS-201 Fundamentals of Nursing**  
*2 Credits*

This course prepares students entering the Associate's Degree Nursing Program to care for others, while providing a foundation for subsequent nursing courses. Students will become familiar with the roles and responsibilities of the professional nurse, and the culture of quality and safety in healthcare.

**Lecture:** 2 hours per week

**Corequisites:** NURS-210, NURS-215, and NURS-225

**Pre/Corequisites:** BIOL-228 and SOC-101

**Prerequisites:** BIOL-227, COMM-101, ENGL-101, PSYC-101, and a GEM 3 MATH course

**NURS-210 Fundamentals of Nursing Lab**  
*2 Credits*

This course prepares students entering the Associate's Degree Nursing Program to provide nursing care to assist individuals in meeting basic human needs, while providing a foundation for subsequent nursing courses. Students will apply concepts of quality and safety in the care of patients to meet basic human needs.

**Lab:** 6 hours per week

**Corequisites:** NURS-201, NURS-215, and NURS-225

**Pre/Corequisites:** BIOL-228 and SOC-101

**Prerequisites:** BIOL-227, COMM-101, ENGL-101, PSYC-101, and a GEM 3 MATH course

**NURS-215 Physical Assessment with Lab**  
*1 Credit*

This course prepares students to perform both comprehensive and focused physical assessments, while providing a foundation for subsequent nursing courses. Students will learn how to identify normal and abnormal assessment data, and document and communicate patient conditions.

**Lecture:** .5 hours per week

**Lab:** 1.5 hours per week

**Corequisites:** NURS-201, NURS-210, and NURS-225

**Pre/Corequisites:** BIOL-228 and SOC-101

**Prerequisites:** BIOL-227, COMM-101, ENGL-101, PSYC-101, and a GEM 3 MATH course

**NURS-225 Pharmacology in Nursing Practice**  
*1 Credit*

This course prepares students in basic pharmacology concepts with an emphasis on safe administration of medications, while providing a foundation for subsequent nursing courses. Students will become familiar with medication classification, implications of medication administration in special populations, medication dosage calculation, error prevention systems, and clinical tools that support well-informed decision making.

**Lecture:** 1 hour per week

**Corequisites:** NURS-201, NURS-210, and NURS-215

**Pre/Corequisites:** BIOL-228 and SOC-101

**Prerequisites:** BIOL-227, COMM-101, ENGL-101, PSYC-101, and a GEM 3 MATH course

**NURS-235 Psychiatric Mental Health Nursing with Lab**  
*1 Credit*

This course prepares students to provide nursing care to individuals with mental and behavioral problems. This course is a continuation

of prior nursing courses. Students will apply the nursing process in support of evidence-based and equitable interdisciplinary care that maintains patient safety and promotes illness recovery.

**Lecture:** .6 hours per week

**Lab:** .4 hours per week

**Corequisites:** NURS-250 and NURS-255

**Pre/Corequisites:** BACT-250 and ENGL-102

**Prerequisites:** BIOL-228, NURS-115, NURS-201, NURS-210, NURS-251, NURS-225, and SOC-101

### **NURS-240                      Nursing Care of Child-Bearing Families with Lab**

**2 Credits**

This course prepares students to provide nursing care to individuals and families within the childbearing continuum, which includes sexuality, childbirth, and children. This course is a continuation of prior nursing courses. Students will demonstrate the knowledge, skills, and attitudes necessary to prevent injury and provide safe care to this patient population. Students will demonstrate professional communication and standards during the planning and delivery of family-centered care.

**Lecture:** 1.5 hours per week

**Lab:** 1.5 hours per week

**Corequisites:** NURS-260 and NURS-265

**Pre/Corequisites:** GEM 5 Course

**Prerequisites:** BACT-250, ENGL-102, NURS-235, NURS-250, and NURS-255

### **NURS-245                      Community Health Nursing**

**1 Credit**

This course prepares students to provide nursing care across the lifespan to groups and populations with disease and health issues. This course is a continuation of prior nursing courses. Students will examine healthcare and habits of individuals and groups in various cultures and socioeconomic states. Students will also focus on health promotion and disease prevention and on methods to reduce morbidity and mortality. This course offers a service-learning component in the application of nursing knowledge, skills, and attitudes.

**Lecture:** 1 hour per week

**Corequisites:** INTR-250O, NURS-270, and NURS-275

**Pre/Corequisites:** GEM 5 Course

**Prerequisites:** NURS-240, NURS-260, NURS-265, and GEM 5 Course

### **NURS-250                      Medical Surgical Nursing I**

**3 Credits**

This course prepares students to provide nursing care to adult patients with acute and chronic medical-surgical conditions, with an emphasis on chronic conditions. This course is a continuation of prior nursing courses. Students will learn roles and responsibilities of the developing nurse in planning and delivering evidence-based patient care using the nursing process.

**Lecture:** 3 hours per week

**Corequisites:** NURS-235 and NURS-255

**Pre/Corequisites:** BACT-250 and ENGL-102

**Prerequisites:** BIOL-228, NURS-115, NURS-201, NURS-210, NURS-215, NURS-225, and SOC-101

### **NURS-255                      Medical Surgical Nursing Lab I**

**3 Credits**

This course prepares students to provide nursing care to stable patients with acute and chronic illnesses. This course is a continuation of prior nursing courses. Students will apply roles and responsibilities of the developing nurse, collaborating with the

healthcare team to plan and deliver evidence-based patient care using the nursing process.

**Lab:** 9 hours per week

**Corequisites:** NURS-235 and NURS-250

**Pre/Corequisites:** BACT-250 and ENGL-102

**Prerequisites:** BIOL-228, NURS-115, NURS-201, NURS-210, NURS-215, NURS-225, and SOC-101

### **NURS-260                      Medical Surgical Nursing II**

**4 Credits**

This course prepares students to integrate the knowledge, skills, and attitudes required to care for patients and families experiencing complex acute and chronic illness. This course is a continuation of prior nursing courses. Students will develop problem-solving and clinical reasoning skills necessary to coordinate and deliver comprehensive nursing care in a variety of settings using the nursing process.

**Lecture:** 4 hours per week

**Corequisites:** NURS-240 and NURS-265

**Pre/Corequisites:** GEM 5 Course

**Prerequisites:** BACT-250, ENGL-102, NURS-235, NURS-250, and NURS-255

### **NURS-265                      Medical Surgical Nursing Lab II**

**4 Credits**

This course prepares students to provide nursing care to patients in a variety of settings. This course is a continuation of prior nursing courses. Emphasis will be on the multiple dimensions of safe patient care, including teamwork, interprofessional communication technologies, and patient/family values. Students will demonstrate application of the nursing process that utilizes strategies based on research, clinical expertise, and quality improvement principles.

**Lab:** 12 hours per week

**Corequisites:** NURS-240 and NURS-260

**Pre/Corequisites:** GEM 5 Course

**Prerequisites:** BACT-250, ENGL-102, NURS-235, NURS-250, and NURS-255

### **NURS-270                      Transition to Nursing Practice**

**1 Credit**

This course prepares students to transition from nursing student to registered nurse. This course is a continuation of prior nursing courses. Students will be introduced to advanced concepts related to the role of the nurse as a member of the profession, provider of patient-centered care, patient advocate, and member of the healthcare team. Emphasis is placed on the utilization of evidence-based practice and informatics to promote safety and quality in healthcare. This course also provides additional instruction to assist students in career planning and development as well as preparing for NCLEX success and licensure.

**Lecture:** 1 hour per week

**Corequisites:** INTR-250O, NURS-245, and NURS-275

**Pre/Corequisites:** GEM 5 Course

**Prerequisites:** NURS-240, NURS-260, NURS-265, and GEM 5 Course

### **NURS-275                      Transition to Nursing Practice Lab**

**3 Credits**

This course prepares students to provide safe and effective nursing care. This course is a continuation of prior nursing courses. Students will participate in clinical practicum experiences which provide opportunities to further develop competencies in patient-centered care, teamwork and collaboration, safety, quality, informatics, and evidence-based practice. Satisfactory completion of this course prepares students for entry into professional nursing practice.

**Lab:** 9 hours per week  
**Corequisites:** INTR-250O, NURS-245, and NURS-270  
**Pre/Corequisites:** GEM 5 Course  
**Prerequisites:** NURS-240, NURS-260, NURS-265, and GEM 5 Course

## PARALEGAL

### **PLEG-105** **Civil Procedure and Litigation** *3 Credits*

This course is designed to teach students the steps necessary to institute and advance a civil lawsuit from the initial client interview through trial. Emphasis is placed on drafting documents instrumental in a civil lawsuit as well as understanding the process.

**Lecture:** 3 hours per week

### **PLEG-106** **Introduction to Paralegal and Legal Ethics** *3 Credits*

This course is an introduction to the American and Idaho legal institutions and processes. It examines the sources of law, the relationships between the federal and state court systems, legal reasoning, ethical standards, and the role of the paralegal. The Code of Professional Responsibility and the Code of Judicial Ethics are used to examine the boundaries of authorized practices, confidentiality, and delegation of authority. Law office administration is introduced and emphasis on legal fees, timekeeping, billing, and docket control systems.

**Lecture:** 3 hours per week

### **PLEG-110** **Introduction to Law** *2 Credits*

This course is an introduction to the American and Idaho legal institutions and processes. It examines the sources of law, the relationships between the federal and state court systems, legal reasoning, ethical standards, and the role of the paralegal. Law office administration is introduced and emphasis on legal fees, timekeeping, billing, and docket control systems.

**Lecture:** 3 hours per week

### **PLEG-115** **Legal Terminology** *1 Credit*

This course introduces the spelling, pronunciation, definition, and usage of basic legal terms. The course broadly covers general law terms as well as specialized legal terminology. Topics include word origins, word building, abbreviations and symbols, correct spelling, pronunciation, and meanings of terminology related to the course system, contracts, family law, real estate, litigation, wills/probate, bankruptcy, and other areas of the law.

**Lecture:** 1 hour per week

### **PLEG-125** **Contracts** *3 Credits*

This course is a study of contract law as found in the Common Law and Article Two of the Uniform Commercial Code.

**Lecture:** 3 hours per week

**Prerequisite:** PLEG-210

### **PLEG-135** **Torts** *3 Credits*

This course examines the principles of civil wrongs and liabilities (torts) including causes of action from negligence, industrial injuries, and professional malpractice. The course addresses fault and without-fault actions, strict liability, and intentional torts. Defenses

and damages are also explored.

**Lecture:** 3 hours per week

**Prerequisite:** PLEG-210

### **PLEG-201** **Legal Ethics** *1 Credit*

This course will examine specific legal issues pertaining to the laws of legal ethics. The Code of Professional Responsibility and the Code of Judicial Ethics are used to examine the boundaries of authorized practices, confidentiality, and delegation of authority.

**Lecture:** 1 hour per week

### **PLEG-210** **Legal Research and Writing** *4 Credits*

This course is an introduction to legal resource materials and methodology. Research skills are developed through law library research and drafting assignments. Emphasis is placed on the use of the legal database and on effective communication of research results through the drafting and preparation of legal documents and instruments.

**Lecture:** 3 hours per week

**Lab:** 2 hours per week

### **PLEG-220** **Legal Research and Writing II** *4 Credits*

This course is a continuation of PLEG-210 with emphasis on the further development of research techniques. Discussion topics include administrative and executive agency research, legislative research, non-legal reference materials, and loose-leaf services. Advanced processes in drafting and preparation of legal documents and instruments are emphasized.

**Lecture:** 3 hours per week

**Lab:** 2 hours per week

**Prerequisite:** PLEG-210

### **PLEG-230** **Evidence** *3 Credits*

This course will examine specific legal issues pertaining to the laws of evidence. Areas of study include the functions of the judge and jury, the principles of standard and burden of proof in civil and criminal cases, the admissibility of evidence, cross examination and re-examination, trial procedures, hearsay evidence, competence and compellability of witness, character evidence and corroborating evidence.

**Lecture:** 3 hours per week

**Prerequisite:** PLEG-110, PLEG-115, and PLEG-210

### **PLEG-250** **Family Law** *3 Credits*

This course is a study of Idaho laws and procedures. Discussion topics include marriage and dissolution of marriage; child custody, visitation, and support; adoptions; domestic violence; and property rights.

**Lecture:** 3 hours per week

**Prerequisite:** PLEG-115

### **PLEG-260** **Criminal Law and Procedure** *3 Credits*

This course is an exploration of the criminal justice system including the application of Idaho laws. Discussion topics include a study of the definition of a crime, institution of criminal action, defenses to criminal accusation, the court process, negotiated and formal pleadings, constitutional safeguards, and sentencing and probation.

**Lecture:** 3 hours per week

**Prerequisites:** PLEG-115

**PLEG-270 Bankruptcy and Creditor's Rights**  
*3 Credits*

This course is an examination of bankruptcy laws and proceedings. Discussion topics include attachments, collection, executions, garnishment, liquidation, and reorganization.

**Lecture:** 3 hours per week

**PLEG-275 Evidence and Legal Transcription**  
*3 Credits*

This course will examine specific legal issues pertaining to the laws of evidence, including the transcribing of documents complying with evidentiary requirements. Areas of study include the functions of the judge and jury, the principles of standard and burden of proof in civil and criminal cases, the admissibility of evidence, cross examination and re-examination, trial procedures, hearsay evidence, competence and compellability of witnesses, character evidence, and corroborating evidence. This course also provides an introduction to the transcribing and formatting of the legal documents required in different substantive areas of law.

**Lecture:** 3 hours per week

**Prerequisites:** CAOT-211, CAOT-212, PLEG-106, and PLEG-115

**PLEG-280 Torts and Contracts**  
*3 Credits*

This course teaches a basic understanding of two important aspects of law: torts and contracts. The course examines the principles of civil wrongs and liabilities (torts) including causes of action from negligence, industrial injuries, and professional malpractice. The class will address fault and without-fault actions, strict liability, and intentional torts. Defenses and damages are also explored. The semester includes a study of contract law as found in the Common Law and Article Two of the Uniform Commercial Code.

**Prerequisites:** PLEG-110 and PLEG-115

**Recommended:** PLEG-210

**PLEG-290 Paralegal Internship I**  
*3 Credits*

This course provides a practical application of paralegal skills in a law office or law-related office. There are approximately nine hours per week of supervised work in the office to add breadth and depth to the student's paralegal experiences.

**In-Office Work:** 9 hours per week

**Prerequisites:** PLEG-105, PLEG-110, PLEG-115, PLEG-210, and instructor permission

**PLEG-291 Paralegal Internship II**  
*3 Credits*

This course is a continuation of PLEG-290.

**In-Office Work:** 9 hours per week

**Prerequisite:** PLEG-290 and instructor permission

**PHARMACEUTICAL MANUFACTURING**
**PHMF-100 Pharmaceutical Manufacturing Principles**  
*3 Credits*

This course offers an introduction to manufacturing principles. These principles are applied to pharmaceutical manufacturing, but can also be applied more generally to production settings. Participants will see how the intersection of logistics, production, engineering, and quality meet to produce products satisfying business requirements.

**Lecture:** 3 hours per week

**PHMF-105 Pharmaceutical Quality Systems and Regulations**  
*2 Credits*

This course offers an introduction to the regulatory process for the pharmaceutical industry. Students will gain insight into how drugs are regulated and how their manufacturing is controlled to ensure patient safety. An introduction to Good Manufacturing Practices (GMP) will help students understand what quality systems are required and how they benefit/protect the patient.

**Lecture:** 2 hours per week

**PHARMACY TECHNOLOGY**
**PHAR-110 Pharmacy Law and Ethics**  
*2 Credits*

This course provides the student with an introduction to federal and state laws regulating the practice of pharmacy. Special emphasis is given to the areas of state law for Idaho and Washington regulating the activities of the technician. This course includes a focus on recordkeeping and medical ethics to better fulfill the technical needs of the students and bring the program in line with national standards.

**PHAR-150 Introduction to Pharmacology**  
*3 Credits*

This course is designed to provide an overview of pharmacologic principles with an emphasis on therapeutic drug classification. For each therapeutic drug classification, basic mechanism of drug actions, side effects, routes of administration, and common indications will be reviewed. Students will become familiar with common abbreviations and vocabulary terms related to drug therapy. Additionally, the course will prepare students to recognize the top 200 drugs (generic and brand name).

**Lecture:** 3 hours per week

**PHAR-152 Advanced Pharmacology**  
*3 Credits*

This course is designed to teach students how to categorize commonly prescribed/dispensed oral and injectable drugs into their therapeutic drug classifications. Emphasis will be on the top 200 prescription drugs and top 100 injectable drugs prescribed in the U.S. For each top 200 drug, the student will distinguish between generic and brand name, recognize common indications and identify available dosage forms, strengths, routes of administration, common dosing regimens, contraindications, side effect profiles, and significant drug interactions. As the therapeutic drug classifications are studied, human medical conditions (as related to anatomy and physiology) will be reviewed.

**Prerequisite:** PHAR-150

**PHAR-161 Extemporaneous Compounding and IV Certification**  
*3 Credits*

This course is designed to train pharmacy technicians in the latest practices and equipment used in extemporaneous compounding, sterile product preparation and aseptic technique. Upon successful completion of the course the pharmacy technician will be eligible for Nation Certification through NPPTA in IV/Sterile Products and Compounding.

**Lecture:** 1.5 hours per week

**Lab:** 3 hours per week

**Corequisite:** PHAR-161L

**PHAR-171 Applied Pharmacy Tech I**  
**3 Credits**

This course is designed to provide students with the background information and knowledge about pharmacy practice in a variety of settings including ambulatory, home care, and institutional pharmacy. Overviews of prescription processing and filling in both ambulatory and institutional settings will be covered. Students will develop entry skills for prescription interpretation and processing by completing both paper and electronic assignments. In addition to prescription processing, other topics that will be covered include the following: role of the pharmacist and the technician, dosage forms, routes of administration, drug/medical abbreviations, insurance billing, drug information, medication errors, purchasing and inventory control, computer technology, professionalism, and customer service. The knowledge base and skills developed in this course will focus on preparing students for their first practicum experience during spring semester.

**Lecture:** 2 hours per week

**Lab:** 2 hours per week

**Prerequisite:** Acceptance into the Pharmacy Technology program

**Corequisite:** PHAR-171L

**PHAR-172 Applied Pharmacy Tech II**  
**2 Credits**

This course continues to provide students with the knowledge and skills necessary for competent performance of technical pharmacy tasks in institutional and ambulatory settings. Institutional pharmacy will be emphasized, especially sterile products preparation, pharmacy calculations, and unit dose drug distribution systems. Emphasis will also be on gaining competency (speed and accuracy) in filling ambulatory prescriptions. Extemporaneous compounding will be introduced with students completing basic compounding recipes. Students will develop skills by completing laboratory exercises.

**Lecture:** 1 hour per week

**Lab:** 2 hours per week

**Corequisites:** PHAR-172L

**PHAR-175 Pharmacy Technician Certification Exam Preparation**  
**1 Credit**

This course is designed to prepare students for the National Pharmacy Technician Certification Exam. The course covers the major areas of focus for the national exam: assisting the pharmacist in serving patients, maintaining medication and inventory control systems, and participating in the administration and management of pharmacy practice. The course will also cover test taking techniques and strategies for success on the national exam.

**Lecture:** 1 hour per week

**PHAR-182 Pharmacy Technology Practicum and Seminar I**  
**5 Credits**

This course is a supervised pharmacy technician practice in a retail or institutional setting. Instruction and guidance are provided by the staff of participating pharmacies. Emphasis is on application of classroom content in the pharmacy setting.

**Lecture:** 1 hour per week

**Onsite:** 190 hours

**Prerequisite:** PHAR-150 and PHAR-171

**PHAR-187 Pharmacy Technology Practicum and Seminar II**  
**5 Credits**

This course is a supervised pharmacy technician practice in a retail or institutional setting. Instruction and guidance are provided by

the staff of participating pharmacies. Emphasis is on application of classroom content in the pharmacy setting.

**Lecture:** 1 hour per week

**Onsite:** 190 hours

**Prerequisite:** PHAR-152, PHAR-172, and PHAR-182

**PHILOSOPHY**
**PHIL-101 Introduction to Philosophy**  
**3 Credits**

This course is the discovery and exploration of major intellectual problems of humankind through methods of questioning, analysis, synthesis, and critique. It emphasizes developing a world view and higher-order reasoning skills through consideration of such issues as the nature of time and physical reality, mind and consciousness, free will, evil, truth, ethics, and the nature and existence of God. This course is for students interested in the meaning of life and the implications of modern science for understanding our world.

**Lecture:** 3 hours per week

**Recommended:** ENGL-101

**GEM 5**

**PHIL-103 Ethics**  
**3 Credits**

This course is the investigation and discussion of personal, social, and professional moral issues and the principles and thinking skills used for their resolution. Emphasis is on the development and application of reasoning skills for decision making in the moral domain. This course provides awareness, sensitivity, insights, and skills essential to the success and moral integrity of the person in today's morally complex world.

**Lecture:** 3 hours per week

**Recommended:** ENGL-101

**GEM 5**

**PHIL-111 World Religions**  
**3 Credits**

This course presents an overview of the historical and cultural settings, main beliefs, and practices of American Indian indigenous spirituality, of the great Eastern religions (Hinduism, Buddhism, Taoism and Confucianism) and of the Western religions (Judaism, Christianity and Islam). Attention is given to similarities and differences in concepts of humanity and in relationship to society, nature, and the divine. This course is for students interested in humankind's religious heritage and cultures of other parts of the world.

**Lecture:** 3 hours per week

**Recommended:** ENGL-101

**GEM 5**

**PHIL-201 Logic and Critical Thinking**  
**3 Credits**

This course is a general introduction to the reasoning skills and psychological approaches used for effective decision-making, problem-solving, and argument analysis and evaluation. This course provides instruction in skills essential to success in everyday life, citizenship, and as a professional in any career.

**Lecture:** 3 hours per week

**Recommended:** ENGL-101 and/or COMM-101

**GEM 5**

**PHIL-205**                      **Political and Social Philosophy**  
*3 Credits*    **(same as POLS-208)**

This course examines the most influential thinkers in the tradition of Western political philosophy. What we understand today as representative government, democracy, communism, socialism, and capitalism are the institutional manifestations of such noteworthy minds as Aristotle, Plato, Jean-Jacques Rousseau, John Locke, James Madison, Niccolo Machiavelli, Thomas Hobbes, Adam Smith, Alexis de Tocqueville, Karl Marx, and Chantal Delsol. Students taking this course will come to appreciate the powerful influence philosophy has had on the shape and structure of the various competing modern political traditions and ideologies. The class will conduct a thorough examination of each thinker's perspective on such issues as the ideal structure of government, the role of human nature in political theory, the relationship between freedom and authority, the role that equality, inequality, economics, and power play in politics, and the competing definitions of political legitimacy. Students taking this course will be well-equipped to defend their own positions in the contemporary debates over issues of social and political justice.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101

**Recommended:** PHIL-101

**GEM 5**

**PHIL-210**                      **History of Ancient Philosophy**  
*3 Credits*

This course will examine the teachings of the ancient Greek philosophers and their influence on the later development of Western philosophy and culture. The course is organized around the pre-Socratic philosophers (Pythagoras, Heraclitus, and others), the Sophists, Socrates, Plato, and Aristotle and the fundamental questions they asked about human nature, reality, ethics, politics, economics, education, science, knowledge, religion and happiness. Students in this course will be introduced to what the ancient Greeks understood as the wisdom tradition in philosophy with an exploration into the most fundamental and perennial questions of human existence.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101

**Recommended:** PHIL-101

**PHIL-215**                      **History of Modern Philosophy**  
*3 Credits*

This course covers the major European thinkers of the Enlightenment period of the 17th and 18th centuries and examines the way in which their perspectives revolutionized European discourse concerning the nature and structure of reality and knowledge. Students will be introduced to the thought of Francis Bacon, Rene Descartes, Baruch Spinoza, John Locke, Immanuel Kant, Jean-Jacques Rousseau, Thomas Hobbes, and other major thinkers of the period. In addition, students will examine how Enlightenment philosophy led to new attitudes concerning religion, politics, ethics, economics, and human nature.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101

**Recommended:** PHIL-101

**PHIL-220**                      **Asian Philosophy**  
*3 Credits*

This course will examine for the most part the major Asian philosophical traditions of India and China, and to a lesser extent, Japan. These major traditions of India and China serve as the foundation for the "minor" philosophical traditions in Asia. For example, the

Indian and Chinese traditions serve as a source for the philosophical traditions of Southeast Asia, Tibet, Korea, and Japan. We will focus on the main metaphysical, epistemological, political, and ethical issues that characterize each of these traditions, and to some extent we will compare these worldviews with western traditions where applicable. In addition, students will have the chance to read and reflect upon various modern and contemporary representatives of each of these traditions, such as Gandhi (India), Basho (Japan) and Anchee Min (China). This course is a timely introduction to the philosophical traditions of two of the major players on the world stage: India and China, and the course should help students to gain valuable sensitivity to the worldviews of two civilizations that will surely be gaining in extraordinary influence during the 21st century.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**Recommended:** PHIL-101

**GEM 5**

**PHIL-222**                      **Environmental Ethics**  
*3 Credits*

This course investigates the historical development of the relationship between humans and the environment and then explores the ethical questions that pertain to human choices regarding animals and the environment. Students will address such questions as: What is the environment and do we have an obligation to protect it? Do non-human animals have rights? What is the proper ethical balance between economic and environmental concerns regarding natural resources? Does the present generation have an ethical obligation to preserve a healthy environment for future generations?

**Lecture:** 3 hours per week

**Prerequisites:** ENGL-101

**Recommended:** PHIL-101

**PHOTOGRAPHY****PHTO-183**                      **Introduction to Digital Photography**  
*3 Credits*

This course uses the advanced digital camera to build basic skills in students who have an interest in photography, but no prior experience. Using a combination of lecture, demonstration, and hands-on exercises, this course will explore basic photographic techniques and artistic concerns involved in making photographs. These include camera handling, composition, effective use of light, file management, digital image manipulation, and developing a photographic vision. Students entering the course must have a digital camera with aperture priority, shutter priority, and exposure compensation. Students are also responsible for all digital storage media.

**Lecture:** 3 hours per week

**PHTO-285**                      **Nature Photography**  
*3 Credits*

This course is an introduction to outdoor and nature photography with a specific focus on understanding common wildlife species, basic photographic skills, marketing opportunities, magazine analysis, and other subjects related to nature photography. It provides basic skills and knowledge for students interested in photographing nature and marketing photographs.

**Lecture:** 3 hours per week

**Prerequisite:** PHTO-183

**PHTO-288**                      **Intermediate Digital Photography**  
*3 Credits*

This intermediate level course is designed to expand the knowledge



and abilities of motivated students who have completed PHTO-183 Introduction to Digital Photography. Basic photographic and post-process skills learned in PHTO-183 will be refined as students work to develop a personal photographic vision. Each student will be challenged visually and intellectually, exploring four major photographic themes. Students will create a portfolio of unique photographs to fit one of those themes. Students entering this course must have a digital camera with aperture and shutter priority and exposure compensation. Students are also responsible for all digital storage media and purchasing an online book (portfolio) of their work.

**Lecture:** 3 hours per week

**Prerequisite:** PHTO-183 with a grade of C or better

### **PHTO-289** 3 Credits

### **Photojournalism**

This course provides exposure to the challenge of publications photography for students who have completed an introductory photography course. Through lecture, demonstration, and hands-on exercises, students develop their visual communication abilities. Students will gain valuable skills in recognizing photo opportunities, covering news events and features, and composing page layouts. Most importantly, students will refine capabilities to create storytelling photographs in individual and photo essay formats. Students entering this course must have a digital camera with aperture and shutter priority and exposure compensation. Students are also responsible for all digital storage media

**Lecture:** 3 hours per week

**Prerequisite:** PHTO-183

## **PHYSICAL EDUCATION**

**NOTE: Some physical education activity and lecture courses have an extra fee which is payable at registration. These fees are for such courses as kayaking, rock climbing, sailing, equitation, mountain biking, golf, racquetball, bowling, cardio training, lake kayaking/canoeing, skiing and snowboarding, whitewater rafting, wilderness backpacking, wilderness survival, whitewater guiding, mountaineering, mountaineering II, outdoor adventure, outdoor program leadership, team dynamics, care and prevention of athletic injuries, lifeguard training, first aid, rowing, swimming, swim conditioning, water aerobics, fly fishing, fencing, and dance.**

### **PE-100** 1 Credit

### **Varsity Sports**

This course is restricted to freshman varsity athletes who compete in NIC soccer, softball, wrestling, golf, volleyball, and basketball. Student athletes practice daily during the season. This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at upper collegiate level.

### **PE-101** 1 Credit

### **Varsity Sports Strength Training**

This course introduces students to the lifetime fitness activity of weight training. It will familiarize students with weight training equipment, teach proper training principles and mechanics, and help students develop a personalized training program. Weight training has been shown to improve metabolism, cardiovascular fitness, body composition, muscular strength/endurance, flexibility, and emotional wellbeing. Athletes must register for the appropriate course number for their sport.

**GEM 7**

### **PE-102** 1 Credit

### **Varsity Sports**

This course is restricted to freshman varsity athletes who compete in NIC soccer, softball, wrestling, golf, volleyball, and basketball. Student athletes practice daily during the season. This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at upper collegiate level.

### **PE-103** 1 Credit

### **Varsity Sports Strength Training**

This course introduces students to the lifetime fitness activity of weight training. It will familiarize students with weight training equipment, teach proper training principles and mechanics, and help students develop a personalized training program. Weight training has been shown to improve metabolism, cardiovascular fitness, body composition, muscular strength/endurance, flexibility, and emotional wellbeing. Athletes must register for the appropriate course number for their sport.

**GEM 7**

### **PE-105Z** 1 Credit

### **Cheerleading**

This course involves instruction and practice in cheerleading for members of the NIC cheerleading squad. Areas developed include gymnastics, dance, communication, group leadership, and social skills. It provides experience for improving self-confidence, public performance, and gymnastic abilities. Students must participate in team tryouts to earn a place on the squad. This course may be repeated for a total of four credits.

### **PE-110A** 1 Credit

### **Beginning/Intermediate Swimming**

Students are taught fundamental swimming and water safety skills for the non-swimmer or beginner. This course requires two hours of practice weekly. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

### **PE-110B** 1 Credit

### **Beginning Whitewater Kayaking**

This course introduces students to the lifetime sport of whitewater kayaking. Theoretical and practical aspects of kayaking equipment, trip planning, river hazards, reading whitewater, accidents, rescue issues, group leadership, and processing will be taught through lecture, discussion, video, and practical experience. Emphasis is placed on proper equipment, safety, and general preparedness for river outings. A strong component of the course will deal with leadership principles in the organization, presentation, and conduct of river outings. This is a beginning course. Do not expect to emerge from this course as a proficient boater or qualified instructor of whitewater kayaking. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

### **PE-110C** 1 Credit

### **Beginning Rock Climbing**

This course introduces the lifetime sport of rock climbing. This course emphasizes the basic skills needed for the safe and enjoyable participation of this sport. Basic skills and knowledge include climbing technique, equipment, belay techniques, knots, rope work, anchors, safety, and rescue information. Suggested reading is *Mountaineering: The Freedom of the Hills, 7th Edition*. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-110CC**
*1 Credit*

This course teaches a traditionally structured Tai Chi form that builds the physical skills and knowledge required for correct performance of Tai Chi Chuan. An emphasis on employing the eight methods and five directions, as well as demonstrating the 10 essential body principles during form practice is a focus of this course. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Tai Chi**

**Activity:** 2 hours per week

**PE-110D**
*1 Credit*

This course introduces students to the lifetime sport of sailing. Theoretical and practical aspects of sailing equipment, boat handling, terminology, basic navigation, and group leadership will be taught through lecture, discussion, video, and practical experience. Emphasis will be placed on proper equipment, safety, and general preparedness for sailing. A strong component of the course is leadership principles in the organization, presentation, and conduct of sailing trips. This is a beginning course. Do not expect to emerge from this course as a proficient sailor or qualified sailing instructor. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Beginning Sailing**

**Activity:** 2 hours per week

**PE-110E**
*1 Credit*

This course develops techniques that enhance strength, flexibility, and body/mind awareness through breathing, yoga postures, concentration, and relaxation. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**GEM 7**

**Beginning Yoga**
**PE-110J**
*1 Credit*

This course introduces the lifetime fitness activity of jogging/power walking. This course includes aerobic jogging/walking at a brisk, powerful pace using all of the major muscle groups in the upper and lower body simultaneously, resulting in a complete aerobic workout. Jogging/walking with power will help students achieve a high overall fitness level when done correctly for the proper amount of time. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**GEM 7**

**Jogging/Powerwalking**
**PE-110F**
*1 Credit*

This course enables students to improve their cardiovascular fitness and muscular strength, as well as gain knowledge about basic exercise physiology and personal health and wellness. Basic skills and knowledge include proper workout technique, setting up a workout program, and using target heart rate zones in training with heart rate monitoring equipment. Testing fitness levels and tracking nutrition intake is also an integral part of this course. May be repeated for a total of four credits.

**Activity:** 2 hours per week

**GEM 7**

**Cardiovascular Training**
**PE-110K**
*1 Credit*

This course is a pre-designed non-contact aerobic course that uses no equipment. The cardio section uses intensity drills and energy sprints in an interval format followed by work recovery sections. Each class will consist of 40 minutes of an aerobic session followed by 10 minutes of conditioning and cool down. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Cardio Kickboxing**
**PE-110G**
*1 Credit*

This course teaches the art and science of riding a horse. Equitation is different from all the other P.E. courses in that a student is working with a live animal with feelings and you need to learn teamwork, be partners, and learn to dance together. Students will learn how to approach, catch, halter, lead, and tie up horses using horse behavior and psychology to handle and control the horse at all times. Students will learn and use horse communication skills at all times. Students will learn how to prepare the horse for riding by proper grooming and feet cleaning procedures before putting the blanket, saddle, and bridle on. Students will learn how to mount properly as though without a cinch, guide the horse at the walk jog, canter in correct leads by using the correct aids, and ride by "feel." By using their mind and body, students will learn how to do lateral work, transition from one gait to another, stop, and back up under objectives. Safety, control, respect, relaxation, balance, and calmness, is stressed and practiced at all times. This course may be repeated for a total of four credits.

**Equitation**
**PE-110L**
*1 Credit*

This course introduces the lifetime sports of lake kayaking and canoeing. This course will emphasize the basic skills needed for safe and enjoyable participation in these sports. Basic skills and knowledge include equipment, paddle strokes, navigation, and essential kayaking/canoeing safety and rescue information. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Lake Kayak/Canoe**
**PE-110M**
*1 Credit*

This course focuses on core conditioning. This course encourages individuals to have a better body awareness. Students will challenge strength, balance, and learn principles of pilates and yoga. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Pilates**

**PE-1100**  
*1 Credit*
**Self-Defense**

This course introduces self-defense. The course emphasizes the basic skills needed for safe and enjoyable participation, along with self-defense skills for personal protection. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-1100O**  
*1 Credit*
**Intermediate Self-Defense**

This course introduces intermediate self-defense. The course emphasizes the skills needed for safe and enjoyable participation, along with more advanced self-defense skills for personal protection. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-110P**  
*1 Credit*
**Skiing/Snowboarding**

This course teaches basic skiing and snowboarding skills. The course focuses on skill improvement and development, equipment selection, and safety issues. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-110PP**  
*1 Credit*
**Cross Country Skiing**

This course participates is a versatile winter sport activity. It incorporates full body movement with low physical impact on the body. The sport can be enjoyed by virtually all age groups and a wide variety of skiing abilities. The course will cover all aspects of cross country skiing, including the history of the sport, how to properly dress, purchasing and maintaining nordic ski equipment and ski technique from beginning to more advanced skills, such as skating and telemarking. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

GEM 7

**PE-110Q**  
*1 Credit*
**Step Aerobics**

This course is a low impact, aerobic activity. Movements will be performed on and off a step platform with risers. Intensity level is determined by speed, travel, and execution of movement patterns. Each class will consist of 40 minutes of an aerobic session followed by 10 minutes of conditioning and cool down. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-110QQ**  
*1 Credit*
**Zumba**

This course is a fitness program inspired by Latin dance. Zumba combines Latin rhythms with cardiovascular exercise to create an aerobic routine that is fun and easy to follow.

**Activity:** 2 hours per week

**PE-110R**  
*1 Credit*
**Strength Training**

This course teaches the lifetime fitness activity of weight training. The course will familiarize students with weight training equipment, teach proper training principles and mechanics, and help students develop a personalized training program. Weight training has been shown to improve metabolism, cardiovascular fitness, body composition, muscular strength/endurance, flexibility, and emotional wellbeing. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

GEM 7

**PE-110S**  
*1 Credit*
**Swim Conditioning**

This course enables students to work on improving endurance, speed, and efficiency in the water as well as general cardiovascular fitness. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-110SS**  
*1 Credit*
**Open Water Swimming**

This course provides students with fundamental swimming techniques and water safety skills for the beginner open water swimmer. Basic swimming skills are required. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-110T**  
*1 Credit*
**Tone and Trim**

This course focuses on total body conditioning. Students will use weights, balls, bands, steps, mats, and the great outdoors to improve their health. Students will experiment with many different forms of exercise including pilates, yoga, cardiovascular training, and total body strengthening. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-110TT**  
*1 Credit*
**Spinning**

This course will introduce students to indoor cycling on a stationary bicycle. Students will learn how to cycle correctly and train indoors. Students will learn different hand positions and how to ride at different resistance and varying speeds. Students will have the opportunity to ride several different formats throughout the semester. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-110U**  
*1 Credit*
**Water Aerobics**

This course is a low impact workout that utilizes water resistance to improve or maintain cardiovascular fitness, muscular fitness, flexibility, balance, and coordination. This is a fun activity class for all levels from beginner to advanced athletes. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-110V**  
*1 Credit*
**Cardio Cross Training**

This course introduces multiple cardiovascular conditioning workouts. Students will learn how to monitor intensities through heart rate and ratings of perceived exertion; gain an understanding of progressive overload as it pertains to aerobic fitness; and improve technique, form, and coordination with a variety of aerobic based activities. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-110VV**  
*1 Credit*
**Introduction to CrossFit**

This course introduces students to an incredibly effective strength and conditioning program. CrossFit utilizes functional workout movements that are varied and can be performed with an intensity level personalized to enhance health and wellness. Students will learn proper technique and mechanics for lifting, running, gymnastics, biking, rowing, pull-ups, push-ups, and other body weight exercises of CrossFit. It is a highly adaptable program, applicable for all fitness levels and ages, to support lifelong health. CrossFit is effective, usable, and best of all, fun. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

GEM 7

**PE-110W***1 Credit*

This course introduces the lifetime sport of mountain biking. This course will emphasize the basic skills needed for safe and enjoyable participation. Basic skills and knowledge include bike maintenance and related equipment, riding techniques, and safety information. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Mountain Biking****PE-111B***1 Credit*

This course introduces the lifetime sport of golf. It emphasizes the basic skills needed for safe and enjoyable participation in this sport, which include: rules of the game, grip, stance, strokes, and safety principles. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**GEM 7**

**Beginning Golf****PE-110X***1 Credit*

This course is the study of Kenpo Karate. The course will emphasize the basic skills needed for safe and enjoyable participation, along with self-defense skills for personal protection. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Kenpo Karate****PE-111C***1 Credit*

This course introduces students to multiple sports for participation over a lifetime. The sports selected offer a mix of both team and individual sports, along with the emphasis on cardiovascular fitness. Each unit will be two to three weeks in length and consist of three phases: safety and skill development, rules of the game, and game competition. Sports will be selected from ultimate Frisbee, soccer, flag football, kickball, disc golf, whiffle ball, dodge ball, volleyball, 3-on-3 basketball, and 5-on-5 basketball. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Multiple Sports****PE-110XX***1 Credit*

This course builds on the skills acquired through the Kenpo Karate course. The course will emphasize the skills needed for safe and enjoyable participation, along with more advanced self defense skills for personal protection. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Prerequisite:** PE-110X

**Intermediate Kenpo Karate****PE-111D***1 Credit*

This course introduces the lifetime sport of racquetball. It emphasizes the basic skills needed for safe and enjoyable participation in this sport, which include: rules of the game, grip, stance, racquet strokes, individual and doubles play, and safety principles. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**GEM 7**

**Racquetball****PE-110Y***1 Credit*

This course focuses on fundamental instruction in the activity of bowling. This is an introductory course. Topics include bowling basics and tips, warm up stretches, manual and computer scorekeeping, plus bowling etiquette and terms. While content is applicable to many levels of bowling, the coursework is focused on fundamentals of the game and aimed at introducing bowling as a sport to enjoy for exercise and recreation. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Bowling****PE-111E***1 Credit*

This course introduces the lifetime sport of softball. The course will emphasize the basic skills needed for safe and enjoyable participation. The basic skills and knowledge include rules of the game, fundamentals, strategies of the game, and safety principles. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**GEM 7**

**Softball****PE-110Z***1 Credit*

This course will teach students the basic skills related to catching fish with the use of a fly rod. This is an activity lab course where students will participate daily. Students will develop the skills and knowledge that they will be able to use in the natural environment. Instruction and participation will include casting, equipment, entomology, knot tying, safety, reading the water, approach, and presentation. Hands-on activities will include practice casting and knot tying skills. Each class will include a variety of visual presentations from the instructor and resource people from the community. We will conclude with a class fishing experience on the Coeur d'Alene River. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Beginning Fly Fishing****PE-111F***1 Credit*

This course introduces the lifetime sport of tennis. The course will emphasize the basic skills needed for safe and enjoyable participation. The basic skills and knowledge include rules, etiquette, and game strategy. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Beginning Tennis****PE-111G***1 Credit*

This course introduces the lifetime sport of volleyball. The course will emphasize the basic skills needed for safe and enjoyable participation. Basic skills and knowledge include rules of the game, passing, setting, serving, and basic principles of game play. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Volleyball****PE-111A***1 Credit*

This course introduces the lifetime sport of basketball. The course will emphasize the basic skills needed for safe and enjoyable participation. The basic skills and knowledge include rules of the game, fundamentals, and strategies of the game, along with safety principles. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Basketball****PE-111H***1 Credit*

This course is an introduction to whitewater rafting. Paddling skills as well as river running competencies will be taught through hands-on experience on the river with attention given to the safety and logistical concerns of whitewater rafting. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**Whitewater Rafting**

**PE-111K**  
1 Credit**Rowing**

This course introduces the lifetime sport of rowing. The course will emphasize the basic skills needed for safe and enjoyable participation. The basic skills and knowledge include use of equipment, paddle strokes, navigation, and safety principles. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-111O**  
1 Credit**Outdoor Adventures**

This course introduces the students to a variety of outdoor adventure sports. During the semester, students will be exposed to sea kayaking, sailing, whitewater rafting, hiking, rock climbing, snow shoeing, cross country skiing, and seasonal activities. Students will learn the very basics of each of these lifetime sports and hopefully pursue them in the future. This course may be repeated for a total of four credits.

**Activity:** 2 hours per week

**PE-111P**  
1 Credit**Stand Up Paddle Boarding**

This course is designed to introduce and expose the participant to equipment, sufficient skills, and knowledge so that they can enjoy the sport of stand up paddling boarding.

**Activity:** 2 hours per week

**PE-111S**  
1 Credit**Beginning Scuba Diver**

This course is the entry-level confined water training session involving classroom and pool instruction. It provides the fundamental knowledge and skills to scuba dive. During this course students will apply dive principles, while learning and practicing dive procedures, and skills. Upon successful completion of all of the required elements of this course, students are considered prepared to enter the open water portion of the certification course.

**Activity:** 2 hours per week

**PE-112B**  
1 Credit**Tai Chi for Seniors**

This course is an introductory course for an exercise system that is performed slowly in a relaxed fashion with fluid graceful motions and that is accessible for any fitness level. It is based on traditional Chinese philosophies and is useful for improving the health of body and mind. It increases balance, range of motion, and helps to relieve stress. Through learning Tai Chi, students develop techniques and skills which enhance balance, strength, bone density, flexibility, and general vitality. The course includes traditional warm-up of soft style calisthenics and accupoint massage, followed by a 24-movement simplified form of Tai Chi Chuan; with a traditional closing sequence of An-Mo (self-massage). Proper breathing, postural alignment, balance, weight shifting, and awareness of sequential muscular effort are emphasized throughout.

**Activity:** 2 hours per week

**PE-112BB**  
1 Credit**Intermediate Tai Chi for Seniors**

This course teaches a more complex, traditionally structured Tai Chi form that builds on the skills and knowledge of simplified Tai Chi acquired in the Tai Chi for Seniors course. An emphasis on employing the eight methods and five directions, as well as demonstrating the 10 essential body principles during form practice is a prime focus of this course.

**Activity:** 2 hours per week

**PE-112E**  
1 Credit**Yoga for Seniors**

This course is an integrated system of education for the body, mind, and inner spirit. Yoga is all about being flexible. Yoga can be practiced by anyone, regardless of age or physical ability. It will enhance studies, reduce stress, and help students enjoy their free time.

**Activity:** 2 hours per week

**PE-160**  
3 Credits**Foundations of Physical Education**

This course presents an overview of the history and development of professional physical education and related fields including principles and objectives of program development and management. It is beneficial for students considering a career in physical education or recreation services.

**Lecture:** 3 hours per week

**PE-200**  
1 Credit**Varsity Sports**

This course is restricted to sophomore varsity athletes who compete in NIC soccer, softball, wrestling, golf, volleyball, and basketball. Student athletes practice daily during the season. This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at upper collegiate level.

**Activity:** 2 hours per week

**PE-201**  
1 Credit**Varsity Sports Strength Training**

This course introduces students to the lifetime fitness activity of weight training. It will familiarize students with weight training equipment, teach proper training principles and mechanics, and help students develop a personalized training program. Weight training has been shown to improve metabolism, cardiovascular fitness, body composition, muscular strength/endurance, flexibility, and emotional wellbeing. Athletes must register for the appropriate course number for their sport.

**Activity:** 2 hours per week

GEM 7

**PE-202**  
1 Credit**Varsity Sports**

This course is restricted to sophomore varsity athletes who compete in NIC soccer, softball, wrestling, golf, volleyball, and basketball. Student athletes practice daily during the season. This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at upper collegiate level.

**Activity:** 2 hours per week

**PE-203**  
1 Credit**Varsity Sports Strength Training**

This course introduces students to the lifetime fitness activity of weight training. It will familiarize students with weight training equipment, teach proper training principles and mechanics, and help students develop a personalized training program. Weight training has been shown to improve metabolism, cardiovascular fitness, body composition, muscular strength/endurance, flexibility, and emotional wellbeing. Athletes must register for the appropriate course number for their sport.

**Activity:** 2 hours per week

GEM 7

**PE-220 Sports Ethics**  
*2 Credits*

This course examines the interrelationship of sports with other aspects of culture, economics, drugs, gambling, and media will be among the topics studied in this course. The role of sports in American society will also be discussed.

**Lecture:** 2 hours per week

**PE-221 Fitness Activities and Concepts**  
*2 Credits*

This course includes individual fitness development with focus on developing personal skills in presenting and teaching fitness activities for public and private sector programs.

**Lab/Lecture:** 2 hours per week

**PE-222 Wellness Lifestyles**  
*3 Credits*

This course examines contemporary health/wellness with emphasis on personal decision making and behavioral changes to create a personal lifestyle which promotes high level wellness.

**Lecture:** 3 hours per week

**GEM 7**

**PE-223 Exercise Physiology**  
*3 Credits*

This course covers physiological responses/adaptations to exercise. Topics include neuromuscular, metabolic, cardiovascular, hormonal, and respiratory systems as they pertain to acute and chronic exercise. The goal of the course is to develop a basic understanding of exercise physiology that will allow students to utilize exercise physiology in their daily lives and future profession, and prepare students to take additional courses in exercise science.

**Lecture:** 3 hours per week

**PE-224 Nutrition for Health, Fitness, and Exercise**  
*3 Credits*

This course examines the basic concepts of nutrition related to exercise training to improve fitness, health, and athletic performance.

**Lecture:** 3 hours per week

**PE-225 Sports Psychology**  
*3 Credits*

This course provides an overview of the growing field of sports psychology, which involves applying psychological science to sports. Topics include how sports psychologists assist athletes and teams in setting and achieving sports, fitness, and exercises goals. Topics also include theoretical foundations of behavior, psychological interventions of performance problems, adherence and maintenance of gains, and the impaired athlete.

**Lecture:** 3 hours per week

**PE-226 Stress Management**  
*3 Credits*

This course explores the concepts of stress from a holistic approach, emphasizing identification of sources of stress, understanding physical and emotional consequences, and developing techniques for dealing with stress. Students will gain improved personal stress management skills through discussion and practice in communication techniques, nutrition, exercise, relaxation, and values clarification, while also learning strategies for dealing with change, loss, and enhancing self-esteem.

**Lecture:** 3 hours per week

**GEM 7**

**PE-227 Legal Aspects of Sport and Recreation**  
*3 Credits*

This course provides an examination of legal and legislative issues affecting sports-related activities. It will include a focus on some of the legal issues which arise in sport business as well as discussion of some of those which occur in professional sports arenas. The course focuses on risk management to discuss tort, contract, agency, constitutional law, antitrust law, labor law and intellectual property law in the sport industry. It also provides the student with a foundation of comprehensive information relevant to practitioners in the sport industry.

**Lecture:** 3 hours per week

**Recommended:** PE-160

**PE-234 Team Dynamics**  
*3 Credits* (same as RRM-234)

This course is designed to introduce students to the design and application of a challenge course, and to train students in the technical skills required to instruct and sequence various activities on a challenge course. Topics include team building, equipment, individual element description and safety, belay techniques, activity introduction and framing, spotting techniques, instructor awareness, activity variations and introductory processing, inspection, maintenance, emergency procedures, participant screening, accident reporting, and rescue skills.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**PE-237A Wilderness Backpacking**  
*3 Credits* (same as RRM-237A)

This course teaches skills and knowledge needed for camping and traveling in a wilderness environment with special attention given to trip leadership. The course focuses on trip leadership, minimum-impact techniques, wilderness navigation, equipment selection, and safety issues.

**Lecture:** 3 hours per week

**PE-237B Wilderness Survival**  
*3 Credits* (same as RRM-237B)

This course provides students with basic life-support skills and knowledge to predict and prepare for emergencies encountered in a wilderness environment. Focus is on emergency procedures, life-support skills, signaling, equipment selection, and safety issues.

**Lecture:** 3 hours per week

**PE-237C Whitewater Guiding**  
*3 Credits* (same as RRM-237C)

This course develops whitewater guiding skills and competencies through hands-on experience with attention given to the safety concerns of whitewater rafting. The skill and competencies include trip leadership, risk management, reading whitewater, maneuvering rafts, swift water rescue, and outfitting.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**PE-237D Mountaineering**  
*3 Credits* (same as RRM-237D)

This course provides a foundation of mountaineering skills with special attention given to trip leadership. Focus is also on snow and glacier travel, avalanche awareness, winter camping, backcountry travel, rock climbing, minimum-impact techniques, equipment selection, and safety issues.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**PE-237DD Mountaineering II**
**1 Credit**

This course builds on the skill sets acquired in PE-237D with special attention given to trip preparation, logistics, and route finding. Students will attempt to climb Mount Rainier.

**Lab:** 2 hours per week

**Prerequisite:** PE-237D or instructor permission

**PE-237E Outdoor Programming and Leadership  
(same as RRM-237E)**
**3 Credits**

This course develops the skills and knowledge needed for leading and programming outdoor adventure sports with special attention given to leadership and teaching methods. This course will focus on trip leadership, risk management, teaching methods, group dynamics, communication, activity selection, and methods of programming.

**Lecture:** 3 hours per week

**PE-237F Outdoor Navigation  
(same as RRM-237F)**
**3 Credits**

This course introduces students to the importance of using a map and compass while working and recreating. It covers the reading of forest service and topographical maps which include symbols, legends, border information, and contour lines. The course includes the use of magnetic compasses and GPSs in an outdoor environment and functions that plot a course on maps. Supplemental navigation skills are included.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**PE-237G Avalanche Level I  
(same as RRM-237G)**
**1 Credit**

This course will develop a good grounding in how to prepare for and carry out a trip, to understand basic decision making while in the field, and to learn rescue techniques required to find and retrieve a buried person in avalanche country.

**Lecture:** 1 hour per week

**Lab:** 2 hours per week

**PE-237H Introduction to Outdoor Cooking  
(same as RRM-237H)**
**3 Credits**

This course is designed to teach the basic skills needed to cook meals in an outdoor setting. Students will learn to plan and prepare satisfying and interesting meals using the supplies and equipment needed in an outdoor environment.

**Lecture:** 3 hours per week

**PE-237J Swift Water Rescue  
(same as RRM-237J)**
**3 Credits**

This course is designed to give students basic paddle and swift water rescue skills. The course teaches recognition and avoidance of common river hazards, execution of self-rescue techniques, and rescue techniques for paddlers in distress. Emphasis is placed both on personal safety and on simple, commonly used skills. Techniques for dealing with hazards that carry greater risks for both victim and rescuer, such as strainers, rescue vest applications, entrapments, and pins are also practiced. Scenarios will provide an opportunity for participants to practice their skills both individually and within a team/group context. Students will receive an American Canoe Association Level 4 Swift Water certificate.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**Recommended:** PE-237C or RRM-237C

**PE-241C Coaching Methods: Soccer**
**2 Credits**

This course offers instruction in methods of soccer with emphasis on fundamentals, strategy, conditioning, and practical applications. This course is beneficial to students considering a career in physical education with a coaching option who will need an endorsement for coaching sports at the interscholastic level.

**Lecture:** 2 hours per week

**PE-241D Coaching Methods: Softball/Baseball**
**2 Credits**

This course offers instruction in methods of softball and baseball with emphasis on fundamentals, strategy, conditioning, and practical applications. This course is beneficial to students considering a career in physical education with a coaching option who will need an endorsement for coaching sports at the interscholastic level.

**Lecture:** 2 hours per week

**PE-241E Coaching Methods: Basketball**
**2 Credits**

This course offers instruction in methods of basketball with emphasis on fundamentals, strategy, conditioning, and practical applications. This course is beneficial to students considering a career in physical education with a coaching option who will need an endorsement for coaching sports at the interscholastic level.

**Lecture:** 2 hours per week

**PE-241F Coaching Methods: Wrestling**
**2 Credits**

This course offers instruction in methods of wrestling with emphasis on fundamentals, strategy, conditioning, and practical applications. This course is beneficial to students considering a career in physical education with a coaching option who will need an endorsement for coaching sports at the interscholastic level.

**Lecture:** 2 hours per week

**PE-242 Sports Officiating**
**2 Credits**

This course is designed to provide students opportunities to acquire knowledge, skill, and experience to function effectively as a sports official. This course stresses philosophy of officiating, officiating tips, code of ethics for officials, dealing with aggressive behavior, and preventative officiating. Other topics covered include personal equipment, pre-game and game duties, post-game duties, rules and regulations, and proper field or floor mechanics. The goal is to develop confidence as an official in order to feel comfortable refereeing intramural, AAU, city recreation, and high school games.

**Lecture:** 2 hours per week

**PE-243 Play and Game Theory**
**2 Credits**

This course offers instruction and practice in the principles of play and game strategy for high- and low-organization activities. It is beneficial for students considering a career in physical education or recreation.

**Lecture:** 2 hours per week

**PE-248 Care and Prevention of Athletic Injuries**
**3 Credits**

This course offers instruction and practice in the care, prevention, and evaluation of injuries common to athletics. It is designed for PE majors, coaches, and individuals considering a career in athletic training or physical therapy.

**Lecture:** 3 hours per week

**PE-250 Clinical Athletic Training**  
**3 Credits**

This course offers a traditional work experience for students interested in the field of athletic training. Students will provide care for varsity athletes while being under the direct supervision of a certified athletic trainer. Special emphasis will be placed on taping, wrapping, evaluation, and rehabilitation techniques.

**Lab:** 10 hours per week

**Prerequisites:** PE-248 and PE-288

**PE-251 ACE Personal Trainer Certification**  
**2 Credits**

This course provides theoretical knowledge and practical skills in preparation for a national certification exam in personal training. Topics include guidelines for instructing safe, effective, and purposeful exercise; essentials of the client-trainer relationship; conducting health and fitness assessments; and designing and implementing appropriate exercise programming.

**Lecture:** 2 hours per week

**PE-253 ACE Group Fitness Instructor Certification**  
**2 Credits**

This course is designed to provide theoretical knowledge and practical skills in preparation for a national certification exam in group fitness instruction. Topics include guidelines for instructing safe, effective, and purposeful exercise; essentials of the instructor-participant relationship; the principles of motivation to encourage adherence in the group fitness setting; effective instructor-to-participant communication techniques; methods for enhancing group leadership; and the group fitness instructor's professional role.

**Lecture:** 2 hours per week

**PE-259 Lifeguard Training**  
**2 Credits**

This course offers instruction for lifeguarding, waterpark lifeguarding, and waterfront lifeguarding. Skill development will cover rescue procedures and injury prevention. First Aid, CPR/AED, emergency oxygen, and blood borne pathogens prevention material will also be covered. Students may elect to qualify for American Red Cross (ARC) certification. To enroll, students must pass a rigorous swim test, demonstrating front crawl and breast strokes, treading water, and a timed retrieval of a 10 pound object from the deep end of the pool. For ARC certification, attendance of all sessions is required.

**PE-266 Water Safety Instructor**  
**2 Credits**

This course involves training in water safety for the aquatics instructor and meets requirements for the American Red Cross Water Safety Instructor course. Emphasis is on theory and application of aquatic skills, teaching methods, and practice in instruction. It is designed for students interested in teaching aquatic skills and safety. Students will have the opportunity to qualify for American Red Cross (ARC) certification.

**Prerequisites:** Proficiency in swimming is required for Water Safety Instructor candidates. Students must be able to swim freestyle, backstroke, breaststroke, elementary backstroke, sidestroke for 25 yards, butterfly for 15 yards, and tread water.

**PE-277 Lifeguard Instructor**  
**1 Credit**

This course offers training for those wishing to teach American Red Cross (ARC) Basic Water Safety, Emergency Water Safety, and Lifeguard Training courses. Emphasis is on the practice of teaching ARC methods. Students will have the opportunity to

qualify for ARC certification. It is designed for students interested in teaching aquatic skills and safety.

**Prerequisite:** Current lifeguard training certification is required.

**PE-288 First Aid**  
**3 Credits**

This course offers instruction and practice in the emergency care for victims of injury or sudden illness. Students will have an opportunity to qualify for certification in first aid and CPR. It is designed for students interested in safety, prevention, and first aid treatment.

**GEM 7**

**PHYSICAL THERAPIST ASSISTANT**

**NOTE:** Course enrollment requires prior acceptance into the Physical Therapist Assistant program.

**PTAE-101 Physical Therapy in Healthcare**  
**2 Credits**

This course studies the role of physical therapy in the health care world. Discussions include the role of the physical therapist assistant (PTA), the relationship between the PTA and the physical therapist (PT), and the delivery of physical therapy care. An introduction to the "patient/client" and the overall health care team is included. Health care ethics, standards specific to physical therapist assistants, diverse patient populations, and other topics are explored.

**Corequisites:** PTAE-107, PTAE-110 and PTAE-112

**PTAE-107 Kinesiology**  
**4 Credits**

This course will study human movement and the functional anatomy of the human body. The framework of musculoskeletal anatomy, muscle stabilization, balance, and function in daily activities is applied to physical therapy care. Normal and abnormal mechanics of body movement is explored. Students analyze tasks that span from simple activities of daily living to more complex occupational and athletic tasks.

**Corequisite Lab:** PTAE-107L

**Corequisites:** PTAE-101, PTAE-110, and PTAE-112

**PTAE-110 Principles and Procedures of Physical Therapy**  
**3 Credits**

This course develops competencies in treatment interventions used by physical therapist assistants. The rationale for treatment, progression of treatment, and working under the direction of the physical therapist are emphasized. Students learn skills such as bed mobility, range of motion, transfers, gait training, assistive device use, and wheelchair mobility. Infection control and safety for patients, self, and others are emphasized.

**Corequisite Lab:** PTAE-110L

**Corequisites:** PTAE-101, PTAE-107, and PTAE-112

**PTAE-112 Clinical Pathology I**  
**1 Credit**

This course provides an overview of basic disease progression and classification with special emphasis to the inflammatory response. Musculoskeletal and nervous system pathologies treated with physical therapy interventions are explored. Common therapeutic treatments and care for these pathologic conditions is learned.

**Corequisites:** PTAE-101, PTAE-107, and PTAE-110

**PTAE-202 Therapeutic Modalities**  
**4 Credits**

This course provides an in-depth understanding of therapeutic mo-



dalities used as adjuncts to physical therapy interventions. Students develop competence in the application of therapeutic modalities including heat, cold, electrotherapy, intermittent compression, massage, traction, and ultrasound. The use of hydrotherapy and various treatments for wound care are explored. Evidenced-based practice and indications/contraindications are emphasized.

**Corequisite Lab:** PTAE-202L

**Corequisites:** PTAE-203, PTAE-205, PTAE-211, and PTAE-212

**PTAE-203 Therapeutic Exercise**  
3 Credits

This course presents strengthening and conditioning principles and how these principles relate to rehabilitation of dysfunction. Students learn how range of motion, strength, endurance, power, speed, agility, balance, proprioception and kinesthesia relate to function and rehabilitation.

**Corequisite Lab:** PTAE-203L

**Corequisites:** PTAE-202, PTAE-205, PTAE-211 and PTAE-212

**PTAE-205 Orthopedic Rehabilitation**  
2 Credits

This course emphasizes development, progression, and understanding of therapeutic exercise and other treatment practices for patients with musculoskeletal pathologies.

**Corequisite Lab:** PTAE-205L

**Corequisites:** PTAE-202, PTAE-203, PTAE-211, and PTAE-212

**PTAE-211 Data Collection**  
3 Credits

This course will develop competence in the skills of measurements used in physical therapy. The use of goniometers, blood pressure cuffs, grip meters, and other tools of measurement are included. Analyzing gait, posture, and measuring muscle strength are included. Lab assessments include the reporting of observable and measurable data and their significance to patient progress. Emphasis is given to effective oral and written communication for reporting and documentation.

**Corequisite Lab:** PTAE-211L

**Corequisites:** PTAE-202, PTAE-203, PTAE-205, and PTAE-212

**PTAE-212 Clinical Pathology 2**  
2 Credits

This course is a continuation of Clinical Pathology 1 with further exploration of pathologies that include oncology, developmental and genetic diseases, hemodynamic disorders, nutritional pathology, infectious disease, cardiovascular and pulmonary disorders, lymphatic, endocrine, and dermatological disorders. Includes physical therapy interventions.

**Corequisites:** PTAE-202, PTAE-203, PTAE-205, and PTAE-211

**PTAE-215 Special Populations**  
3 Credits

This course introduces the therapeutic principles and practices underlying the treatment of patients with amputations, burns, cardiopulmonary pathologies and considerations, women's health issues, and selected age-specific disorders.

**Corequisite Lab:** PTAE-215L

**Corequisites:** PTAE-217, PTAE-220, and PTAE-245

**PTAE-217 Neurological Rehabilitation**  
4 Credits

This course guides students through the principles and practices used in the rehabilitation of individuals with neurological condi-

tions. The principles incorporate musculoskeletal and neurological therapeutic exercise across the lifespan. Proprioceptive neuromuscular facilitation, neurodevelopmental theory and other facilitation techniques are learned. Pediatric training for developmental conditions is explored.

**Corequisite Lab:** PTAE-217L

**Corequisites:** PTAE-215, PTAE-220, and PTAE-245

**PTAE-220 Seminar**  
3 Credits

This course reviews psychological considerations with application to cultural/gender/aging/family dynamics in relation to disease, dysfunction, death and dying and the grieving process. In addition, caregiver self-care, assertive communication, and clinical burnout are presented. It includes an introduction to effective administration aspects of varied physical therapy environments. Preparation for entering the physical therapy workplace is also explored. A review of the required text with an emphasis on board exam study and test-taking strategies is included.

**Corequisites:** PTAE-215, PTAE-217, and PTAE-245

**PTAE-245 Clinical Affiliation 1**  
2 Credits

This course is a three-week, full-time clinical experience in a physical therapy workplace setting. Students experience opportunities to apply the thinking processes and skills learned during the first two semesters of PTA technical courses. Supervision is provided by physical therapists and physical therapist assistants employed by the host facility.

**Corequisites:** PTAE-215, PTAE-217, and PTAE-220

**PTAE-250 Clinical Affiliation 2**  
6 Credits

This course is a six-week, full-time clinical experience in a physical therapy clinical environment. Students use the competencies learned in their PTA technical courses to assist with treatment of patients/clients. Patient treatment, progression, rationale, and critical thinking, are practiced in a supervised setting.

**Corequisites:** PTAE-255

**PTAE-255 Clinical Affiliation 3**  
6 Credits

This course is the final, full-time clinical experience in a physical therapy clinical environment. Students apply treatment intervention competencies, oral and written communication skills, and the art of caring for diverse populations in a physical therapy workplace setting. Patient progression, rationale for treatment, and critical thinking, are practiced in a supervised setting.

**Corequisites:** PTAE-250

**PHYSICS**

**PHYS-101 Fundamentals of Physical Science**  
4 Credits

This course is designed for the non-science major interested in an overview of the physical sciences and in developing an appreciation for the nature of the physical universe. It includes physics, chemistry, astronomy, and geology and their relation to the world and universe in which we live.

**Lecture:** 3 hours per week

**Corequisite Lab:** PHYS-101L (2 hours per week)

**GEM 4**

**PHYS-103** **Elementary Astronomy**  
 4 Credits

This course is an introductory study of astronomy. Topics include the history of astronomy; the motions and physical properties of the sun, moon, and Earth; the electromagnetic spectrum; solar system planets, satellites, and minor bodies; stars; galaxies; evolution of the solar system; the universe; and cosmology.

**Lecture:** 3 hours per week

**Corequisite Lab:** PHYS-103L (2 hours per week)

**GEM 4**

**PHYS-111** **General Physics I**  
 4 Credits

This course is the study of mechanics, sound, linear and rotational motion momentum, energy, vectors, elasticity, vibration, and mechanical wave motion.

**Lecture:** 3 hours per week

**Corequisite Lab:** PHYS-111L (2 hours per week)

**Prerequisites:** MATH-147, or MATH-143 and MATH-144 or an appropriate score on a placement test

**GEM 4**

**PHYS-112** **General Physics II**  
 4 Credits

This course is the study of electricity and magnetism, light, optics, and modern physics.

**Lecture:** 3 hours per week

**Corequisite Lab:** PHYS-112L (2 hours per week)

**Prerequisite:** PHYS-111 or PHYS-211

**PHYS-211** **Engineering Physics I**  
 5 Credits

This course envelops the study of kinematics and dynamics, Newton's Laws, work and energy, rotational dynamics, linear and angular momentum, collisions, static equilibrium, oscillations, gravity, central forces, fluid dynamics, and sounds waves.

**Lecture:** 4 hours per week

**Corequisite Lab:** PHYS-211L (2 hours per week)

**Pre/Corequisite:** MATH-170

**Prerequisites:** MATH-147, or MATH-143 and MATH-144 or an appropriate score on a placement test

**GEM 4**

**PHYS-212** **Engineering Physics II**  
 5 Credits

This course is the study of heat and thermodynamics, electric and magnetic fields and potentials, DC and AC circuits, electromagnetic waves, and geometric and physical optics.

**Lecture:** 4 hours per week

**Corequisite Lab:** PHY-212L (2 hours per week)

**Pre/Corequisite:** MATH-175

**Prerequisites:** MATH-170 and PHYS-211

**POLITICAL SCIENCE**
**POLS-101** **American National Government**  
 3 Credits

This course is the study of the foundation of the United States government and the evolution of constitutional principles. Special attention is given to the Declaration of Independence, the United States Constitution, the three branches of national government, powers and limits of national government, civil rights, political par-

ties, campaigns, political participation, interest groups, media, public opinion, and select public policies. This is an essential course for students majoring in political science, pre-law, or law enforcement.

**Lecture:** 3 hours per week

**GEM 6**

**POLS-105** **Introduction to Political Science**  
 3 Credits

This course is designed to introduce students to several areas of political science such as international relations, comparative politics, political philosophy, and research methods. Important theories and models to politics will be introduced as well as how political science study is conducted. Students typically will be required to write a literature review on a political topic of their choice and offer suggestions on how future research could be conducted. This course addresses cultural diversity by giving students an introduction into different philosophies of government and how various political systems of the world may be organized. This course is ideal for anyone interested in political science.

**Lecture:** 3 hours per week

**Recommended:** ENGL-101

**POLS-208** **Political and Social Philosophy**  
 3 Credits **(same as PHIL-205)**

This course examines the most influential thinkers in the tradition of Western political philosophy. What we understand today as representative government, democracy, communism, socialism, and capitalism are the institutional manifestations of such noteworthy minds as Aristotle, Plato, Jean-Jacques Rousseau, John Locke, James Madison, Niccolo Machiavelli, Thomas Hobbes, Adam Smith Alexis de Tocqueville, Karl Marx, and Chantal Delsol. Students taking this course will come to appreciate the powerful influence philosophy has had on the shape and structure of the various competing modern political traditions and ideologies. The class will conduct a thorough examination of each thinker's perspective on such issues as the ideal structure of government, the role of human nature in political theory, the relationship between freedom and authority, the role that equality, inequality, economics, and power play in politics, and the competing definitions of political legitimacy. Students taking this course will be well-equipped to defend their own positions in the contemporary debates over issues of social and political justice.

**Lecture:** 3 hours per week

**Prerequisite:** ENGL-101 or an appropriate score on a placement test

**Recommended:** PHIL-101

**GEM 5**

**POLS-237** **International Politics and Problems**  
 3 Credits

This course examines the causes of war and the determinants of peace between nations. Special attention is also devoted to the future prospects or roadblocks toward global governance. Students will learn about various topics that nations face when relating to each other such as foreign policy, development, human rights, terrorism, energy, the environment, and international economic issues. The major theories of international relations and the assumptions that are important to each theory are discussed. The United Nations and other international organizations will be introduced along with the covenants and treaties that such groups administer. This course is ideal for anyone interested in global politics.

**Lecture:** 3 hours per week

**GEM 6**

**POLS-275 State and Local Government**  
*3 Credits*

This course uses a comparative approach to examine the characteristics and qualities of both state and local governments. Emphasis is placed on how local and state governments are organized and how they operate. Additional issues that are examined from a state and local government context include federalism, the role of political parties, participation, land use, finances, and various policies that are important to government at the state and local levels.

**Lecture:** 3 hours per week

**POLS-298 Political Involvement Practicum**  
*1-6 Credits*

This course offers credit for involvement and service to government, political parties or other entities that may offer a student political or legal experience. Typically, students volunteer as an intern. The goals of this practicum are to gain practical knowledge of politics and provide service to the community. Requirement include supervision by a representative of the hosting organization and an NIC political science instructor. Permission of the instructor is required and enrollment is dependent on the instructor and student finding a suitable position. Students should contact the instructor several weeks or more before enrollment, as some opportunities require specific applications and background checks.

**PSYCHOLOGY**
**PSYC-101 Introduction to Psychology**  
*3 Credits*

This course provides students with a general overview of the science which seeks to understand and explain behavior and mental processing. Variations in psychology faculty training and research interest influence topic emphasis. However, students will be introduced to many of the major contemporary theories and concepts in psychology. This course will prove interesting and useful to those students wishing to better understand human behavior and thinking. It should prove helpful to students preparing for a career that will bring them into contact with other people.

**Lecture:** 3 hours per week

**Recommended:** Strong reading and writing skills

**GEM 6**

**PSYC-205 Developmental Psychology**  
*3 Credits*

This course covers the full spectrum of human development from conception through death. Students examine the biological, cognitive, and social aspects of an individual's development. Individual faculty preparation will determine areas of emphasis. This course is valuable to students pursuing a career that will necessitate working with and being sensitive to people of various ages (teachers, social workers, nurses, law enforcement officers, etc.).

**Lecture:** 3 hours per week

**Prerequisite:** PSYC-101

**Recommended:** Strong reading and writing skills

**PSYC-210 Psychology of Personality**  
*3 Credits*

This course is a study of theory and research of the normal personality including basic concepts, techniques of measurement, and relevant findings. This course surveys the major theories of personality, including trait, psychodynamic, humanistic, cognitive, and behavioral perspectives.

**Lecture:** 3 hours per week

**Prerequisite:** PSYC-101

**PSYC-211 Abnormal Psychology**  
*3 Credits*

This course provides a study of the nature, cause, treatment, and prevention of patterns of emotional disturbance and personality disorganization. It introduces the major categories of mental disorders as defined in the DSM.

**Lecture:** 3 hours per week

**Prerequisite:** PSYC-101

**PSYC-218 Intro to Research in the Behavioral Sciences**  
*4 Credits*

This course is primarily designed for behavioral and social science majors. In this course, students will be introduced to the basic methods of behavioral research. This will be accomplished through active participation in the design, implementation, and analysis of class research projects. This course involves three hours of lecture and a two-hour lab per week. This course is applicable for those students who plan to pursue an undergraduate and graduate degree in one of the behavioral or social sciences.

**Lecture:** 3 hours per week

**Lab:** PSYC-218L (2 hours per week)

**Prerequisite:** PSYC-101

**Corequisite:** PSYC-218L

**Recommended:** Strong reading and writing skills

**RADIOGRAPHY TECHNOLOGY**
**RADT-101 Introduction to Radiography**  
*2 Credits*

The course includes an introduction to, and overview of, radiology and basic radiation protection instruction to allow students to begin the clinical practicum. Students will learn basic radiographic principles: image acquisition and processing, factors affecting radiographic quality, calibration, equipment design, filters, electromagnetic radiation, exposure factors, quality assurance and control testing, fundamentals of computers, and the Internet in radiology.

**Lecture:** 2 hours per week

**RADT-102 Patient Care in Radiography**  
*3 Credits*

This course provides an introduction to fundamental patient care procedures. Students will learn the role of the radiographer and other members of the health care team, patient and technologist interactions, body mechanics and patient transfer, aseptic technique, patient care during special exams, mobile and surgical radiography, emergency procedures, drug administration, and use and care of support equipment in preparation for patient contact. Students will receive an introduction to the hospital environment, health care teams, and basic patient care.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**RADT-104A Radiographic Images I**  
*1 Credit*

This course includes beginning image evaluation and radiographic anatomy. Students will learn disease causes, definitions, radiographic manifestations, and effects on image production. Students will present radiographs taken in the laboratory or clinic with emphasis on exam indication, pathology, positioning, radiographic technique, and anatomy demonstrated.

**Lecture:** 1 hour per week

**Corequisites:** RADT-106

**RADT-104B**                      **Radiographic Images I**  
*1 Credit*

This course includes beginning image evaluation and radiographic anatomy. Students will learn disease causes, definitions, radiographic manifestations, and effects on image production. Students will present radiographs taken in the laboratory or clinic with emphasis on exam indication, pathology, positioning, radiographic technique, and anatomy demonstrated.

**Lecture:** 1 hour per week

**Prerequisite:** RADT-104A

**RADT-105**                      **Radiation Protection**  
*2 Credits*

This course includes principles of radiation safety, biological effects of radiation, x-ray production, radiation units, radiation detection devices, measurement, regulations, personnel monitoring, and objectives of a radiation protection program.

**Lecture:** 2 hours per week

**RADT-106**                      **Radiographic Procedures I**  
*3 Credits*

This course introduces radiographic anatomy and positioning procedures necessary to produce beginning diagnostic radiographs. Students will learn proper technical factors for different imaging situations, radiographic equipment operation, radiation protection, positioning terminology, patient considerations, and radiographic pathology.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**RADT-107**                      **Radiography Physics**  
*3 Credits*

This course includes electromagnetic radiation, electromagnetism, and x-ray physics. Students will learn the x-ray circuit, generators, equipment, quality control, radiation units, production, interactions, image intensification, fluoroscopy, conventional tomography, computed tomography, and mammography. Students will perform technique selection problems with advanced formula application.

**Lecture:** 3 hours per week

**Prerequisites:** RADT-108 and RADT-192

**RADT-109**                      **Radiography Procedures II**  
*3 Credits*

This course is the second course in radiographic anatomy and positioning procedures necessary to produce diagnostic radiographs of the entire body (except skull). Students will learn proper technical factors for different imaging situations, radiographic equipment operation, radiation protection, positioning terminology, patient considerations, and radiographic pathology.

**Lecture:** 2 hours per week

**Lab:** 3 hours per week

**Prerequisites:** RADT-106 and RADT-180

**RADT-110**                      **Law and Ethics for Radiography**  
*1 Credit*

This course introduces students to ethical principles related to radiography technology. Students will learn the historical and philosophical basis of ethics in radiography; ethical and legal concepts in health care; the legal responsibilities of the technologist; and how professional organizations, credentialing, and development influence the role of the radiologic technologist.

**Lecture:** 1 hour per week

**RADT-180**                      **Clinical Education I**  
*3 Credits*

This course consists of supervised rotations through routine diagnostic areas. Students will perform beginning radiologic examinations on patients under direct supervision of a technologist until competency has been achieved.

**Clinical:** 135 hours

**RADT-182**                      **Clinical Education II**  
*6 Credits*

This course is the second course in clinical education for the Radiography Technology program and consists of supervised rotations through routine diagnostic areas. Students will perform radiologic examinations on patients under direct supervision of a technologist until competency has been achieved.

**Clinical:** 270 hours

**Corequisites:** RADT-104B, RADT-105, and RADT-108

**Prerequisite:** RADT-180

**RADT-192**                      **Clinical Education III**  
*3 Credits*

This course consists of supervised rotations through routine diagnostic areas. Students will perform radiologic examinations on patients under direct supervision of a technologist until competency has been achieved.

**Clinical:** 135 hours

**Corequisites:** RADT-202A and RADT-205

**Prerequisites:** RADT-108 and RADT-182

**RADT-201**                      **Pharmacology and Contrast Procedures in Radiography**  
*2 Credits*

This course includes an introduction to the uses, contraindications, and pharmacology of contrast media. Students will learn pharmacology principles, drug classification and safety, routes of administration, intravenous drug therapy, current practice status, and informed consent. Procedural considerations for contrast studies (such as upper gastrointestinal exams and barium enemas) and fluoroscopic techniques will be covered.

**Lecture:** 2 hours per week

**Prerequisites:** RADT-192 and RADT-206

**RADT-202A**                      **Radiographic Images II**  
*1 Credit*

This course is a continuation of RADT-104 with advanced image evaluation, radiographic anatomy, and pathology. Students will present radiographs taken in the laboratory or clinic with emphasis on exam indication, pathology, positioning, radiographic technique, and anatomy demonstrated. Emphasis will be on higher level procedures.

**Lecture:** 1 hour per week

**Prerequisites:** RADT-104B and RADT-182

**RADT-202B**                      **Radiographic Images II**  
*1 Credit*

This course is a continuation of RADT-104 with advanced image evaluation, radiographic anatomy, and pathology. Students will present radiographs taken in the laboratory or clinic with emphasis on exam indication, pathology, positioning, radiographic technique, and anatomy demonstrated. Emphasis will be on higher level procedures.

**Lecture:** 1 hour per week

**Prerequisites:** RADT-192 and RADT-202A

**RADT-204**                      **Radiographic Procedures III**  
*2 Credits*

This course introduces students to advanced radiographic anatomy and positioning procedures. Students will learn advanced procedures, pathology, and image evaluation including the skill. This course includes an introduction to principles of pediatric radiography.

**Lecture:** 2 hours per week

**Lab:** 6 hours per week

**Prerequisites:** RADT-109 and RADT-182

**RADT-206**                      **Radiographic Procedures IV**  
*2 Credits*

This course introduces students to advanced imaging.

**Lecture:** 2 hours per week

**Prerequisites:** RADT-192 and RADT-202A

**RADT-291**                      **Clinical Education Option**  
*1 Credit*

This course is a continuation of clinical education for the student that desires additional clinical education in either a routine diagnostic area or special rotation. Students have the option of picking (upon availability) a rotation of interest. Rotations that are available include the emergency room, mobile radiography, surgery, fluoroscopy, outpatient imaging, interventional procedures, computed tomography (CT), magnetic resonance imaging (MRI), nuclear medicine, ultrasound, mammography, radiation therapy, and cardiovascular laboratory.

**Clinical:** 45 hours

**Prerequisites:** RADT-202, RADT-206, and RADT-292

**RADT-292**                      **Clinical Education IV**  
*8 Credits*

This course is the fourth course in clinical education for the Radiography Technology program. Students will be supervised in rotations through diagnostic areas. Students will perform increasingly difficult radiologic examinations on patients under direct supervision of a technologist until competency has been achieved.

**Clinical:** 360 hours

**Prerequisites:** RADT-192 and RADT-202A

**RADT-297**                      **Senior Radiography Review**  
*1 Credit*

This course is designed to prepare students to take the American Registry of Radiologic Technologists (ARRT) examination. Students will review the main content areas that are identified by the ARRT. Course review includes radiation protection, equipment operation, quality control, image production and evaluation, radiographic procedures, patient care, and education. Students will learn test taking techniques and strategies for success on the national exam.

**Lecture:** 1 hour per week

**Prerequisites:** RADT-292 and RADT-202B

**RADT-298**                      **Clinical Education V**  
*8 Credits*

This course is the final course in clinical education for the Radiography Technology program. Students will be supervised in rotations through diagnostic areas and will perform increasingly difficult radiologic examinations on patients under direct supervision of a technologist until competency has been achieved.

**Clinical:** 360 hours

**Corequisite:** RADT-201

**Prerequisite:** RADT-292

**RESORT/RECREATION MANAGEMENT**

**NOTE:** Course enrollment requires prior acceptance into the Outdoor Recreation Leadership program.

**RRM-100**                      **Intro to Hospitality and Tourism**  
*3 Credits*                      **(same as HOSP-100)**

This course provides a general overview of hospitality management. It covers the growth and development, organization and structure, and all of the functional areas of the hospitality industry, including travel and tourism, lodging, food service, and recreation. Included are an explanation of both the management and operational functions of hospitality operations, a discussion of the personal and professional demands of hospitality management, an examination of managing human resources, and an exploration of the future of the industry.

**Lecture:** 3 hours per week

**RRM-110**                      **Wilderness First Responder**  
*3 Credits*

This course is designed for students who will be working with groups in the backcountry setting at a professional level. Course content will address the issues of long-term patient care, survival skills, and backcountry rescue techniques. Upon successful completion, students will be certified as Wilderness First Responders and in CPR. Lectures are combined with practical applications through a variety of hands-on simulations and activities. This course is highly recommended for guides, trip leaders, camp counselors, hunters, rescue team members, outdoor recreation enthusiasts, and anyone who spends considerable time in the wilderness or other remote settings.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**RRM-120**                      **Natural Resource Conservation**  
*3 Credits*                      **and Management**

This course includes an overview of ethical practices and behavior for those utilizing wilderness resources. Topics of study include low-impact camping and traveling methods, history of environmental and wilderness ethics, and current issues in the outdoor recreation industry. Students will learn guiding principles behind land management decisions and regulations.

**Lecture/Lab:** 3 hours per week

**RRM-125**                      **Wilderness Ethics and Interpretation**  
*3 Credits*

This course will have two distinct parts. The first part covers the concepts of wilderness ethics such as Leave No Trace and the Wilderness Act. The remainder of the course will focus on communicating these concepts to audiences in natural resource situations. Communication skills including environmental and cultural interpretation and multi-media presentations will be covered through discussion and practice.

**Lecture:** 3 hours per week

**RRM-135**                      **Introduction to Ski Instruction**  
*1 Credit*

This course provides thorough training in all aspects of entry-level ski instruction. It combines indoor theory with outdoor application and covers topics such as interpersonal communication in the lesson environment, the skills concept for snow sports, building logical progressions, group management and interaction, movement analysis, and giving feedback and creating change. It also includes on-snow clinics, personal ski/snowboard improvement

clinics, and class observation/shadowing. This course is useful for anyone interested in a career in the recreation industry as it provides a frontline look at how to manage the guest experience in a variety of ways and situations.

**Lecture:** 8 hours

**Lab:** 16 hours

**RRM-140 Leadership Principles**  
*3 Credits* (same as HOSP-140)

This course is an introduction to the principles of leadership and its relationship to management. Emphasis will be on leadership techniques, group dynamics, facilitation styles, problem solving, decision making, and communication techniques needed to inspire and influence. Students will apply leadership styles through experiential and group practice.

**Lecture:** 3 hours per week

**RRM-220 Resort/Recreation**  
*3 Credits* Management Principles (same as HOSP-220)

This course is an introduction to the principles of management and their relationship to the overall management of facilities, personnel, and programs. The development of supervisory skills and coaching techniques needed to improve the performance of employees are emphasized.

**Lecture:** 3 hours per week

**RRM-225 Event Planning and Management**  
*3 Credits* (same as HOSP-225)

This course identifies the elements of event management and planning. Students will learn about different types of events, venues, step-by-step planning, and the management skills required to communicate with various stakeholders in the process.

**Lecture:** 3 hours per week

**RRM-230 Leisure and Recreation Programming**  
*3 Credits*

This course provides a comprehensive plan for successful programming of services, program leadership, and understanding operational management of program systems in recreation and leisure service organizations. The course provides a systematic plan for students to learn the essentials of successful recreation programming with examples of a variety of activities in community, outdoor, sport, cultural arts, and tourism sectors of the field.

**Lecture:** 3 hours per week

**RRM-234 Team Dynamics**  
*3 Credits* (same as PE-234)

This course is designed to introduce students to the design and application of a challenge course, and to train students in the technical skills required to instruct and sequence various activities on a challenge course. Topics include team building, equipment, individual element description and safety, belay techniques, activity introduction and framing, spotting techniques, instructor awareness, activity variations and introductory processing, inspection, maintenance, emergency procedures, participant screening, accident reporting, and rescue skills.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**RRM-237A Wilderness Backpacking**  
*3 Credits* (same as PE-237A)

This course teaches skills and knowledge needed for camping

and traveling in a wilderness environment with special attention given to trip leadership. The course focuses on trip leadership, minimum-impact techniques, wilderness navigation, equipment selection, and safety issues.

**Lecture:** 3 hours per week

**RRM-237B Wilderness Survival**  
*3 Credits* (same as PE-237B)

This course provides students with basic life-support skills and knowledge to predict and prepare for emergencies encountered in a wilderness environment. Focus is on emergency procedures, life-support skills, signaling, equipment selection, and safety issues.

**Lecture:** 3 hours per week

**RRM-237C Whitewater Guiding**  
*3 Credits* (same as PE-237C)

This course develops whitewater guiding skills and competencies through hands-on experience with attention given to the safety concerns of whitewater rafting. The skill and competencies include trip leadership, risk management, reading whitewater, maneuvering rafts, swift water rescue, and outfitting.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**RRM-237D Mountaineering**  
*3 Credits* (same as PE-237D)

This course provides a foundation of mountaineering skills with special attention given to trip leadership. Focus is also on snow and glacier travel, avalanche awareness, winter camping, backcountry travel, rock climbing, minimum-impact techniques, equipment selection, and safety issues.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**RRM-237E Outdoor Programming and Leadership**  
*3 Credits* (same as PE-237E)

This course develops the skills and knowledge needed for leading and programming outdoor adventure sports with special attention given to leadership and teaching methods. This course will focus on trip leadership, risk management, teaching methods, group dynamics, communication, activity selection, and methods of programming.

**Lecture:** 3 hours per week

**RRM-237F Outdoor Navigation**  
*3 Credits* (same as PE-237F)

This course introduces students to the importance of using a map and compass while working and recreating. It covers the reading of forest service and topographical maps which include symbols, legends, border information, and contour lines. The course includes the use of magnetic compasses and GPSs in an outdoor environment and functions that plot a course on maps. Supplemental navigation skills are included.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**RRM-237G Avalanche Level I**  
*1 Credit* (same as PE-237G)

This course will develop a good grounding in how to prepare for and carry out a trip, to understand basic decision making while in the field, and to learn rescue techniques required to find and retrieve a buried person in avalanche country.

**Lecture:** 1 hour per week

**Lab:** 2 hours per week

**RRM-237H Introduction to Outdoor Cooking  
(same as PE-237H)**  
*3 Credits*

This course is designed to teach the basic skills needed to cook meals in an outdoor setting. Students will learn to plan and prepare satisfying and interesting meals using the supplies and equipment needed in an outdoor environment.

**Lecture:** 3 hours per week

**RRM-237J Swift Water Rescue  
(same as PE-237J)**  
*3 Credits*

This course is designed to give students basic paddle and swift water rescue skills. The course teaches recognition and avoidance of common river hazards, execution of self-rescue techniques, and rescue techniques for paddlers in distress. Emphasis is placed both on personal safety and on simple, commonly used skills. Techniques for dealing with hazards that carry greater risks for both victim and rescuer, such as strainers, rescue vest applications, entrapments, and pins are also practiced. Scenarios will provide an opportunity for participants to practice their skills both individually and within a team/group context. Students will receive an American Canoe Association Level 4 Swift Water certificate.

**Lecture:** 1 hour per week

**Lab:** 4 hours per week

**Recommended:** PE-237C or RRM-237C

**RRM-250 Risk Management in the  
Resort Industry  
(same as HOSP-250)**  
*3 Credits*

This course helps students appreciate and understand both the needs and techniques for identifying and managing risks to employees, guests, and property in the resort industry. This course focuses on identification and control of risk, incident investigation, and increasing employee and public awareness of potential risk.

**Lecture:** 3 hours per week

**RRM-290 Resort/Recreation  
Management Internship**  
*3 Credits*

This course provides supervised training in program skills through on-the-job experience in a program-related site. This course provides practical application of skills learned as a part of the learning process. It involves 135 hours of on-site training. It is a required course in the Resort/Recreation Management program and is graded on a satisfactory/unsatisfactory basis.

**Internship Site Work Experience:** 135 hours

**SOCIAL SCIENCE**
**SOSC-103 Cultural Anthropology and Ecology**  
*3 Credits*

This course will focus on sustainability and subsistence in nature to understand the ancient way of living from which modern cultures have evolved. Students will journey into primitive wilderness areas to study pristine natural environments and experience subsistence living from a cultural anthropological and ecological perspective. It is a journey into the last periods of living simply with the land on its terms followed by the transition into modern times.

**SOSC-202 Political Propaganda and Film**  
*3 Credits*

This course provides an analysis and overview of the relationship between film and political ideology. A number of state sponsored films will be screened and shown to have had a significant impact

on social change in the 20th century. The mass manipulation of society by established propaganda techniques will be examined with relevance to the rise of socialism, fascism, and cold war position. Visual themes, musical scores, rhetorical composition, and symbolic elements will be analyzed for implicit and explicit messages. The role of directors and studio houses in the production of these films will also be considered. This course takes a socio-political approach to critically analyze the effects of visual media on mass populations.

**Lecture:** 3 hours per week

**SOCIAL WORK**
**SOWK-240 Introduction to Social Work**  
*3 Credits*

This course presents a survey of social welfare and human service programs in the United States as a response to problems and needs within society. Issues relating to historical and contemporary social service institutions and their place in both an ethical and public context are examined. The course begins the professional foundation for social work.

**Lecture:** 3 hours per week

**SOWK-241 Social Work Generalist Practice**  
*3 Credits*

This course is a continuation of SOWK-240 which introduced students to the social work profession in relation to social services in a social welfare system context. Elementary social work processes focus on an overview of the theoretical knowledge and methodological skills necessary for entry-level practice in social work. Topics covered include generalist practice; social work values; principles of interviewing; assessment; confidentiality; contemporary theories of counseling; social work with individuals, groups, families, and community practice; evaluation; general systems theory; cross cultural social work; working within a bureaucratic system; burnout; and the frustrations and satisfactions of being a social worker. Case examples are discussed and role-played to apply the theory that is presented.

**Lecture:** 3 hours per week

**Recommended:** SOWK-240

**SOCIOLOGY**
**SOC-101 Introduction to Sociology**  
*3 Credits*

This course presents the fundamental principles affecting human social systems. The concepts of traditional as well as contemporary theorists will be discussed. Emphasis will be placed on the forces governing groups and the conditions that transform social life.

**Lecture:** 3 hours per week

**GEM 6**

**SOC-102 Social Problems**  
*3 Credits*

This course applies sociological concepts and methods of analysis to current social problems in the United States. Topics of study include issues such as racism, social inequality, crime and environmental degradation. This course is recommended for students entering the fields of sociology, counseling, social work and justice studies.

**Lecture:** 3 hours per week

**GEM 6**

**SOC-103** **Cultural Diversity**  
3 Credits

This course is designed to increase the awareness and appreciation of diversity within the contemporary U.S. population. It will examine historical and contemporary experiences from perspectives of both women and men of diverse races, ethnicities, social class, religions, sexual orientation, ages, and abilities. Students will explore their particular inherited and constructed traditions, identify communities and significant life experiences while learning from the varied experiences and perspectives of those who are different. Students will become more aware of the nature of personal, institutional, and societal inequalities and the processes leading to a more equitable society. Students will be encouraged to develop a critical consciousness and to explore ways of empowering to help eliminate ideologies of unequal treatment. This course will develop an extended and collaborative dialogue about past, present, and future U.S. democratic aspirations and foster a respect for people's life experiences while teaching skills needed to function in today's diverse and increasingly interconnected global society.

**Lecture:** 3 hours per week

**Recommended:** College level reading and writing

**SOC-220** **Marriage and Family**  
3 Credits

This course is designed to help students understand more about marriage and family life processes. Students will examine values, needs, and responsibilities as they relate to intimacy, the selection of partners, cohabitation and marriage, family planning choices, parenting, family economics, and interpersonal communication. Students will also address the issues of family violence, divorce, and the restructuring of new families. This course will be helpful to those who wish to have more knowledge about relationship, marriage, and family issues or those who are entering such fields as counseling and social work.

**Lecture:** 3 hours per week

**Recommended:** SOC-101 and College level reading and writing skills  
GEM 7

**SOC-245** **Introduction to Criminology**  
3 Credits  
(same as CJ-245)

This course introduces students to the study of criminology by exploring a broad range of issues related to crime and criminal behavior. The course reviews the theoretical foundations and relevant research for understanding the causes of crime, criminal behavior, and systems of punishment within society.

**Lecture:** 3 hours per week

**Recommended:** SOC-101 or SOC-102

**SOC-251** **Race and Ethnic Relations**  
3 Credits

This course examines the historical and current social construction of race and ethnicity in shaping social relations within the United States and globally. The primary focus of this course is to explore racial and ethnic inequalities by applying sociological theoretical perspectives. This course will be helpful for individuals seeking to understand the changing racial and ethnic demographics of the United States and globally, as well to those going into sociology, social work, health care, political science, criminal justice or counseling fields.

**Lecture:** 3 hours per week

**Recommended:** SOC-101 and college level reading and writing

**SOC-296** **Introduction to Sociology of Gender**  
3 Credits

This course explores ideas about gender and gendered systems of relationships embedded in society, politics, economics, culture, history, and media in the United States. From a variety of sociological perspectives and theories, it sets out to explore gender constructions by using the sociological imagination to investigate contemporary gender-related social problems. It also looks at the various ways in which gendered institutions have been produced and perpetuated to maintain specific power dynamics and hierarchies. Additionally, this course looks at the ways in which gender ideologies intersect with other socially and culturally constructed categories of identity such as race, class, sexuality, and disability.

**Lecture:** 3 hours per week

**Recommended:** SOC-101 and ENGL-101

**THEATRE****THEA-101** **Introduction to the Theatre**  
3 Credits

This course examines the contributions of individual artists to the art of theatre. Through discussion and attendance at plays, students will become familiar with elements of dramatic structure and the roles and responsibilities of the director, lighting designer, costumer, playwright, sound technician, actors, and scene designer. This is a nonperformance course open to non-majors. It is designed to enhance students' understanding of dramatic art and the appreciation and enjoyment of live performance. Skills in observation, writing, critical thinking, and verbal expression are emphasized and developed. Students are required to attend three plays during the semester.

**Lecture:** 3 hours per week

**GEM 5**

**THEA-102** **Stage Makeup**  
3 Credits

This course offers instruction in the basic principles and techniques of theatre makeup. Students will explore, through the eye of the makeup artist, concepts of facial structure, aging, style, and modeling with paint and will observe demonstrations of basic techniques. Weekly labs offer the opportunity to translate knowledge into design and practical application of theatrical makeup. This course will benefit students seeking careers or further education in the theatre arts as well as community members who participate in the theatre. Students must purchase a theatrical makeup kit which is approximately \$50.

**Lecture:** 2 hours per week

**Lab:** 2 hours per week

**THEA-103** **Introduction to Stagecraft**  
3 Credits

This course offers practical lab experience in applying theories and methods of scenery and prop design and construction. It focuses on the creative use of production tools and stage equipment. This course provides an opportunity to develop technical skills for theatre and media production for students exploring those career areas or who are interested in community theatre participation. Prior completion of other courses is not necessary.

**THEA-104** **Stagecraft II**  
3 Credits

This course offers the continuing theatre student an important step toward a major in Theater Arts. It is practical, hands-on experience



in construction of major set components (from the preliminary illustration phase through onstage production). This course emphasizes application of techniques, skills, and attitude established in THEA-103. The course is also valuable for non-theatre majors who need to develop physical skills in building and construction with an emphasis on a creative approach to problem solving and various media use.

**Lecture:** 3 hours per week

**Prerequisite:** THEA-103

### **THEA-115** **Basics of Performance I** 3 Credits

This course is an introduction to the art of stage performance, emphasizing the development of acting skills. It includes basic verbal skills of articulation, projection, and inflection, as well as the study of script formats, actor language, voice, movement, and imagination. Emphasis is on developing an understanding and appreciation for the total performance of the actor, combining creative imagination and discipline. Students will do solo and duo acting, requiring script memorization and performance before an audience. Students are required to view at least two theatre performances as specified in the syllabus; students are responsible for their own transportation and ticket costs. Tickets to area theatrical shows may have to be purchased at a total cost of \$25 - \$40.

### **THEA-116** **Basics of Performance II** 3 Credits

This course is a continuation of THEA-115, focusing on enhanced voice and movement and the development of characters from scripts. Students will study and practice techniques actors use in working with ensembles, memorizing parts, and developing stage presence. The skills introduced in THEA-115 are improved upon and include verbal and nonverbal communication techniques, memorization, script analysis, and the interpretation of character. Students are required to view at least two theatre performances as specified in the syllabus; students are responsible for their own transportation and ticket costs. Tickets to area theatrical shows may have to be purchased at a total cost of \$25-\$40.

### **THEA-190** **Theatre Practice** 1 Credit

This course offers participation in the development and production of an NIC play, gaining experience in one or more areas, including lighting, properties, costuming, set construction, audio and sound support, and stage managing. Practical experience in theatrical production may include basic carpentry, electrical, makeup, sewing, painting—skills applied to theatre but useful in other fields. Students will refine these skills as they develop an appreciation for the total process of theatre art involving organization, creativity, discipline, and ensemble teamwork. The course is open to non-majors and may be repeated for a total of four credits. Some evening and weekend work will be included.

### **THEA-201** **Scene Design I** 3 Credits

This course offers an introduction to visual interpretation, research, and rendering techniques used in scenery design. Emphasis is on creation of appropriate, effective stage environments based on research and interpretation of theatrical scripts. It provides the opportunity to develop set design skills for theatre and media production for students exploring those career areas or who are interested in community theatre participation. Previous participation in theatre productions is recommended.

**Lecture:** 3 hours per week

**Recommended:** THEA-103

### **THEA-263** **Technical Production** 2 Credits

This course provides instruction and practice in the techniques of stage management and production roles and responsibilities. Students will participate in the design, development, and execution of NIC Theatre Department productions. This course offers an opportunity to develop stage management skills for theatre and media production for students exploring those career areas or who are interested in community theatre participation.

**Prerequisite:** THEA-103 or permission of instructor

### **THEA-271** **Play Analysis** 3 Credits

This course focuses on the role of the playwright, students will explore the structure of dramatic works and the process of script creation. The course includes exposure to live and recorded plays of Ibsen, Shakespeare, Chekov, Arthur Miller, and other great playwrights. Different styles of drama including tragedy, comedy, melodrama, and farce are emphasized. Students will strengthen skills in reading, listening, writing, script, and character interpretation as they develop an appreciation of dramatic literature and the playwright's art and craft. Weekend attendance at plays is anticipated.

**Recommended:** THEA-101 and strong writing skills

### **THEA-272** **Intermediate Acting** 3 Credits

This course introduces the student actor to aspects of the Stanislavski system of acting and realistic acting techniques for the modern theatre. Emphasis is on character analysis, ensemble acting for an audience with exercises in concentration, observation, and use of inner truth and emotional recall. Students will learn interpretive and internal techniques for character identification and bringing a character to life. Attention is given to improving verbal and nonverbal acting qualities. Some evening and weekend participation may be necessary.

**Prerequisites:** THEA-115 and THEA-116 or permission of instructor

## WELDING TECHNOLOGY

**NOTE:** Course enrollment requires prior acceptance into the Welding Technician program. Successful completion of each semester and/or permission of the instructor is required for enrollment in the next semester.

### **WELD-100B** **Welding Theory** 2 Credits

This course is a continuation of WELD-100A. This is part two of a two-part class totaling 4 credits.

### **WELD-105** **Welding Theory** 2 Credits

This course consists of basic metallurgy, identification of metals and electrodes, theory of welding processes, identify proper usage of testing methods, welding gases, joint design and configuration, welding positions, welding currents and polarity. Welding qualifications and procedures will also be covered.

**Lecture:** 2 hours per week

**WELD-112**  
2 Credits**Safety and Leadership**

This course will introduce the student to lab organization and safety procedures. The student will demonstrate applied leadership skills and abilities, demonstrate and identify hand tools and their proper usage. The student will also demonstrate and identify power tools and equipment including their proper usage and maintenance.

**Lecture:** 2 hours per week

**WELD-121**  
2 Credits**Blueprint Reading for Welders**

This course will cover basic lines, views, dimensioning and structural shapes, abbreviation and weld symbols, working with structural and piping drawings, and bill of materials.

**Lecture:** 2 hours per week

**WELD-131**  
3 Credits**Advanced Blueprint Reading**

This course covers interpreting drawings and develop material lists, sketch or draw components for layout, and calculate material costs from blueprints. Specific applications for steel, pipe, or other welding projects will be directed to meet student and community needs. AWS adopted standards for welding symbols will be the primary reference for blueprint interpretation.

**Lecture:** 3 hours per week

**WELD-140**  
2 Credits**Auto Collision Repair Welding**

This course is part of the Auto Collision Repair Technology program. It prepares repair technicians to perform basic welding processes and techniques required by industry. Students will gain skills in several welding processes including oxy-acetylene cutting and welding, plasma arc cutting of steel and aluminum, gas tungsten arc welding, and gas metal welding. Students will learn proper safety in operating welding and cutting equipment. Students may obtain the I-CAR Welder Certificate.

**WELD-182L**  
6 Credits**Welding Lab II**

This course will focus on gaining competency in FCAW and GMAW application on ferrous steel plate in the flat, horizontal, vertical, up, and overhead welding position. Students will weld on steel plate and other common materials using the proper welding techniques on butt, lap, tee, and corner joints in all four welding position. This course will also introduce students to the methods of Gas Tungsten Arc Welding. Instruction and practice will be focused on the use of metallic and non-metallic metals using inert gas welding with and without filler wire. Welding will be done on steel, stainless steel, and aluminum plate using the Gas Tungsten Arc Welding process. AWS standards will apply for welds on butt, tee, lap, and corner joints. AWS D1.1 structural bend test standards will also apply.

**Corequisites:** WELD-100B and WELD-131

**Prerequisites:** WELD-197L, or instructor permission

**WELD-187L**  
4 Credits**SMAW Practical**

This course covers SMAW welding principles and will include fillet and groove welds in all positions to the AWS standards. Successfully completing this course may lead to certification.

**Lab:** 14 hours per week

**WELD-188L**  
1 Credit**Advanced SMAW Practical**

This course will cover advanced SMAW concepts and procedures. Students will become proficient in advanced welding techniques of open-root welding on plate with and without backer. AWS certification testing conditions will prevail on completion of this course.

**Lecture:** 16 hours per week

**WELD-197L**  
1 Credit**Oxy/Fuel Cutting Lab**

This course includes instruction in the techniques of cutting using manual, machine processes and equipment with the oxy/fuel process. Students will practice using manual and machine methods on ferrous metal assignments.

**Lab:** 15 hours per week

**WELD-225**  
3 Credits**Advanced Welding Theory**

This course is a continuation of WELD-100A. This course will also emphasize ASME and AWS welding test procedures in SMAW, GMAW, FCAW, and GTAW. Students will also be exposed to Plasma Cam operations.

**Lecture/Lab:** 5 hours per week

**Corequisites:** WELD-226 and WELD-281L

**Prerequisites:** WELD-100B, WELD-131, WELD-182L, and WELD-197L, or instructor permission

**WELD-226**  
2 Credits**Layout/Mechanical Drawing**

This course will introduce students to the concepts and techniques of mechanical drawing. It will cover basic line drawings, use of mechanical drawing equipment, isometric and orthographic projections, and geometric drawings. Students will prepare geometrical drawings and draw layouts. This course will also enable students to perform layout of structural steel using fabricating practices. Students will be able to determine elevations of structures and how to construct using calculating equipment including transits, scientific calculators, and various squaring and leveling tools. The student will also be able to calculate the layout of pipe including figuring offsets, runs, and travel distances.

**Lecture/Lab:** 4 hours per week

**Corequisites:** WELD-225 and WELD-281L

**Prerequisites:** WELD-100A, WELD-100B, WELD-131, WELD-181L, WELD-182L and WELD-197L, or instructor permission

**WELD-227**  
3 Credits**Advanced Welding Theory II**

This course is a continuation of WELD 225 and includes further discussion on the problems associated with heating and cooling metals and the properties of a variety of metals used in the welding process. Students will gain a working knowledge of fabrication techniques and manufacturing processes of the metals used in welding. Characteristics of the traditional welding and bonding agents used in welding will be provided to give students a background on metal identification, metallurgical behaviors, and the determination of weldability of ferrous and nonferrous metals. This course will also teach students basic GTAW methods and theory on this gauge mild steel, stainless steel, and aluminum in all positions using both direct and alternating current. Equipment setup and adjustment will be emphasized to match with welding applications.

**Lecture/Lab:** 5 hours per week

**Corequisites:** WELD-228 and WELD-291L

**Prerequisites:** WELD-100B, WELD-131, WELD-182L WELD-197L, WELD-225, WELD-226, and WELD-281L or instructor permission

**WELD-228**                      **Advanced Mechanical Drawing**  
*3 Credits*

This course covers detail drawings related to the welding industry. Proper dimensioning and tolerances, use of sectioning techniques, isometrics and oblique drawings, including pip welding symbols and bill of materials will be covered as well.

**Lecture/Lab:** 5 hours per week

**Corequisites:** WELD-227 and WELD-291L

**Prerequisites:** WELD-100B, WELD-131, WELD-182L, WELD-197L, WELD-225, WELD-226, and WELD-281L

**WELD-281L**                      **Shielded Metal Arc Welding**  
*7 Credits*

This course covers the advanced applications of SMAW and will include small diameter thin wall pipe and tubing in all positions. Additional instruction will cover high pressure pipe welding using E6010 on root pass, E7018 fill, and over passes. Qualification in various pipe fitter levels may be offered.

**Lab:** 14 hours per week

**WELD-291L**                      **Gas Tungsten Arc Welding Lab**  
*6 Credits*

This course covers the advanced applications of GTAW and will include small diameter wall pipe and tubing in all positions. Additional instruction will cover high pressure pipe welding using GTAW on root pass, E7018 fill, and cover passes. AWS certification in various pipe-fitting levels may be offered.

**Lab:** 12 hours per week

**ZOOLOGY****ZOOL-202**                      **General Zoology**  
*4 Credits*

This course presents a survey of the animal kingdom from invertebrates through the vertebrates. It includes classification, structure, physiology, histology, reproduction, embryology, and life histories of representative forms of the major animal groups and their relationship, application, and economic importance to man. This course is often required for students in medicine, dentistry, optometry, pharmacy, veterinary medicine, certain forestry options, medical technicians, and biology majors.

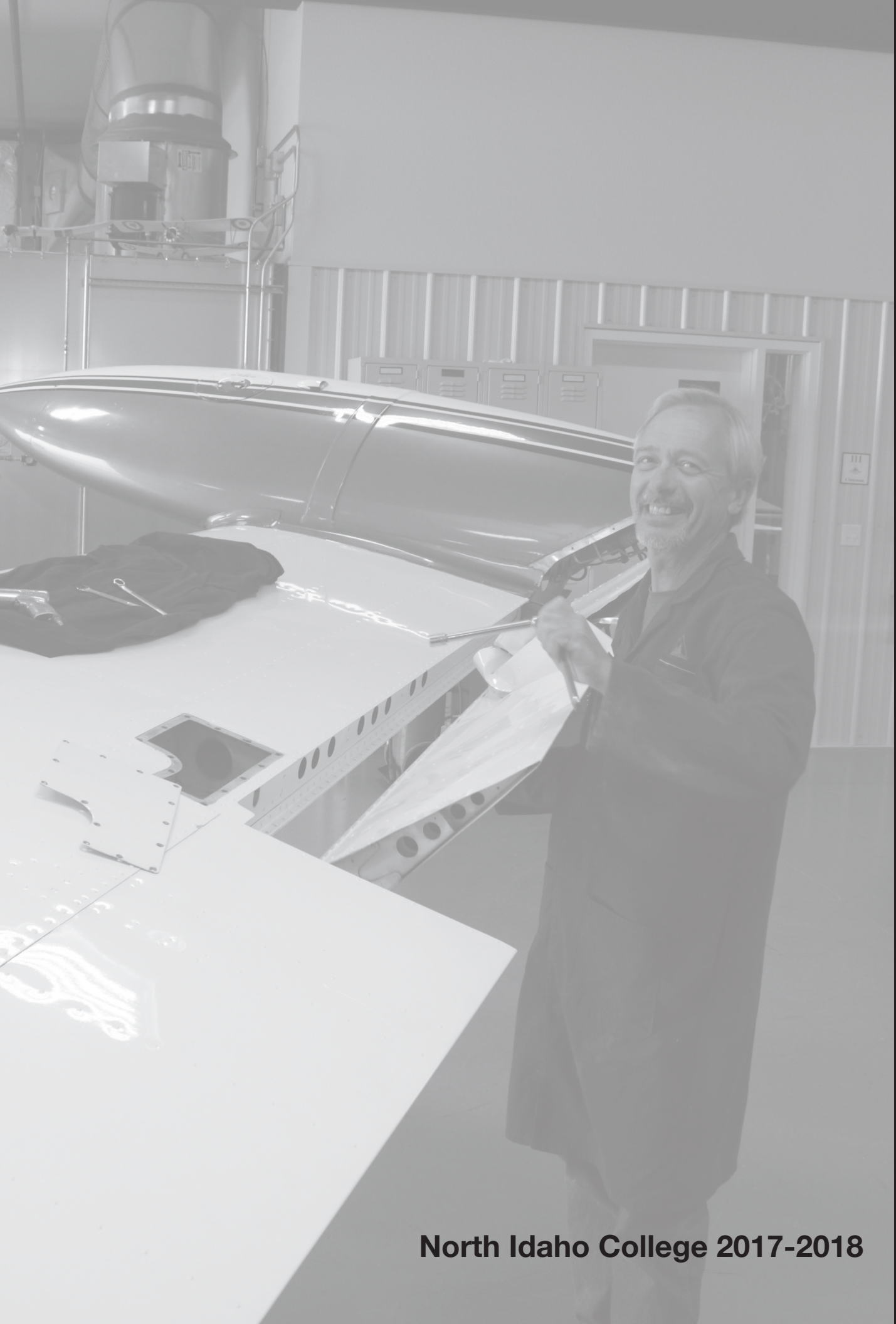
**Lecture:** 3 hours per week

**Corequisite Lab:** 3 hours per week (ZOOL-202L)

**Recommended:** BIOL-100 or BIOL-115

**GEM 4**





## PRESIDENT'S CABINET

**Richard MacLennan, Ed.D.**

*President*

B.A., Portland State University  
M.Ed., Oregon State University  
Ed.D., Wilmington University

**Rayelle Anderson, CFRE**

*Director of Development/  
Executive Director NIC Foundation*

A.A.S., North Idaho College  
B.S., Montana State University

**Lita Burns**

*Vice President for Instruction*

B.S., University of Wyoming  
M.S., University of Colorado  
Ph.D., Gonzaga University

**Chris Martin**

*Vice President for Finance and  
Business Affairs*

B.B.A., Abilene Christian University  
M.B.A., Amberton University

**Don Millikan, SHRM-SCP, SPHR**

*Executive Director of Human Resources*

B.A., University of Montana

**Laura Rumpler**

*Chief Communications and  
Governmental Relations Officer*

B.A., Gonzaga University

**Graydon Stanley**

*Vice President for Student Services*

B.S., College of Idaho  
M.Ed., College of Idaho

**Ken Wardinsky**

*Chief Information Officer*

A.A.S., Great Falls College,  
Montana State University  
B.A.S., Montana State University-Northern  
M.S.M., Colorado Technical University

**Al Williams**

*Director of Athletics*

B.A., University of Idaho  
M.B.A., University of Phoenix



Name: \_\_\_\_\_

**ACADEMIC INFORMATION**

List the last high school you attended and any schools since, including colleges, trade schools, correspondence, etc. *Do not omit any schools.* Attach a separate sheet if more space is needed. Failure to list all schools attended, or submission of inaccurate information, is considered fraud and is cause for refusal of admission or dismissal from the institution. **Students seeking certificates or degrees must have official transcripts submitted from each school listed. To be considered official, transcripts must be mailed in a sealed envelope directly from the school to the institution's admissions office.**

Did/Will you graduate from high school?  Yes (month/year \_\_\_\_ / \_\_\_\_ )  No

High School: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_

Do you have a GED or high school equivalency certificate?  Yes (month/year \_\_\_\_ / \_\_\_\_ )  No

If yes, degree-seeking applicants are required to submit official GED test scores.

Are/Were you a Tech Prep Student?  Yes  No If yes, in which program area did you enroll? \_\_\_\_\_

**PREVIOUS COLLEGE ATTENDANCE**

Name of College, Trade School, etc.	City & State	Dates Attended	Grad. Date	Degree/# Credits Earned

**RESIDENCY**

Residency for community colleges is determined by county of residence. Checking any one box does not establish residency. Verification may be requested.

State of Residence: \_\_\_\_\_ From: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ to: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ If less than 12 months, previous state: \_\_\_\_\_

County of Residence: \_\_\_\_\_ From: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ to: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ If less than 12 months, previous county: \_\_\_\_\_

**IF LESS THAN 12 MONTHS, Idaho residency MAY be determined by one or more of the following. Please check all statements that are applicable if claiming Idaho residency for tuition purposes. Records may be requested.**

- One or more of my parents/legal guardians or spouse's parents is domiciled in Idaho and has maintained a bona fide domicile in Idaho for at least 12 months prior to the opening day of the term which I plan to enroll, **and** I receive at least 50% of my financial support from my parents/legal guardians.
- Parent's name and address \_\_\_\_\_ From \_\_\_\_ / \_\_\_\_ / \_\_\_\_ to \_\_\_\_ / \_\_\_\_ / \_\_\_\_
- I receive **less than** 50% of my financial support from parents/legal guardians. I have continuously resided in Idaho for purposes other than education for at least 12 months prior to the opening day of the term which I plan to enroll.
- I am/will be a graduate of an accredited Idaho high school and I will attend this institution during the term immediately following high school graduation.
- I am married to an Idaho resident. My spouse is a resident of \_\_\_\_\_ County.
- I or my spouse is a member of the Armed Forces stationed in Idaho on military orders. I or my spouse is stationed in \_\_\_\_\_ County.
- I am an officer or an enlisted member of the Idaho National Guard.
- One or more of my parents/legal guardians, from whom I receive 50% or more of my support, is a member of the Armed Forces of the United States who entered service as an Idaho resident and who has maintained Idaho resident status, but is not stationed within the state of Idaho on military orders.
- One or more of my parents/legal guardians, from whom I receive 50% or more of my support, is a member of the Armed Forces stationed in Idaho. They are stationed in \_\_\_\_\_ County.
- I have been separated under honorable conditions from the Armed Forces after at least two years of service. **Check one of the following:**
  - At the time of separation, I designated the State of Idaho as my intended domicile or indicated Idaho as my home of record, and I am entering this institution within one year of the date of separation.
  - I intend to make Idaho my state of residence and will actively establish domicile within one calendar year.
- I have been away from the State of Idaho for a period of less than 30 months. I have not established legal residence elsewhere. I was a resident of the State of Idaho for a continuous 12-month period immediately prior to departure.
- I am a member of one of the following Idaho American Indian tribes: Coeur d'Alene, Shoshone-Paiute, Nez Perce, Shoshone-Bannock, Kootenai, including Colville Confederated, Flathead, Kalispel, Pend Oreille, and Spokane *if applying to NIC.*

**SIGNATURE**

In signing this form, I acknowledge that failure to disclose and submit accurate information may result in denial of admission or dismissal from the institution. I certify that all information provided is complete and true. By signing this application, I certify that I am in compliance with the Federal Military Selective Service Act, 50 U.S.C. sec. 453, or that I am exempt from the same. Men between the ages of 18 and 25 must be registered with the Selective Service to be eligible for enrollment at a state college, to receive state and federal financial aid, and to be employed in a state or federal job. You may register with Selective Services online at <http://www.sss.gov>.

**Acceptance or receipt of financial aid and scholarship awards certifies that the funds will be used for educational purposes.**

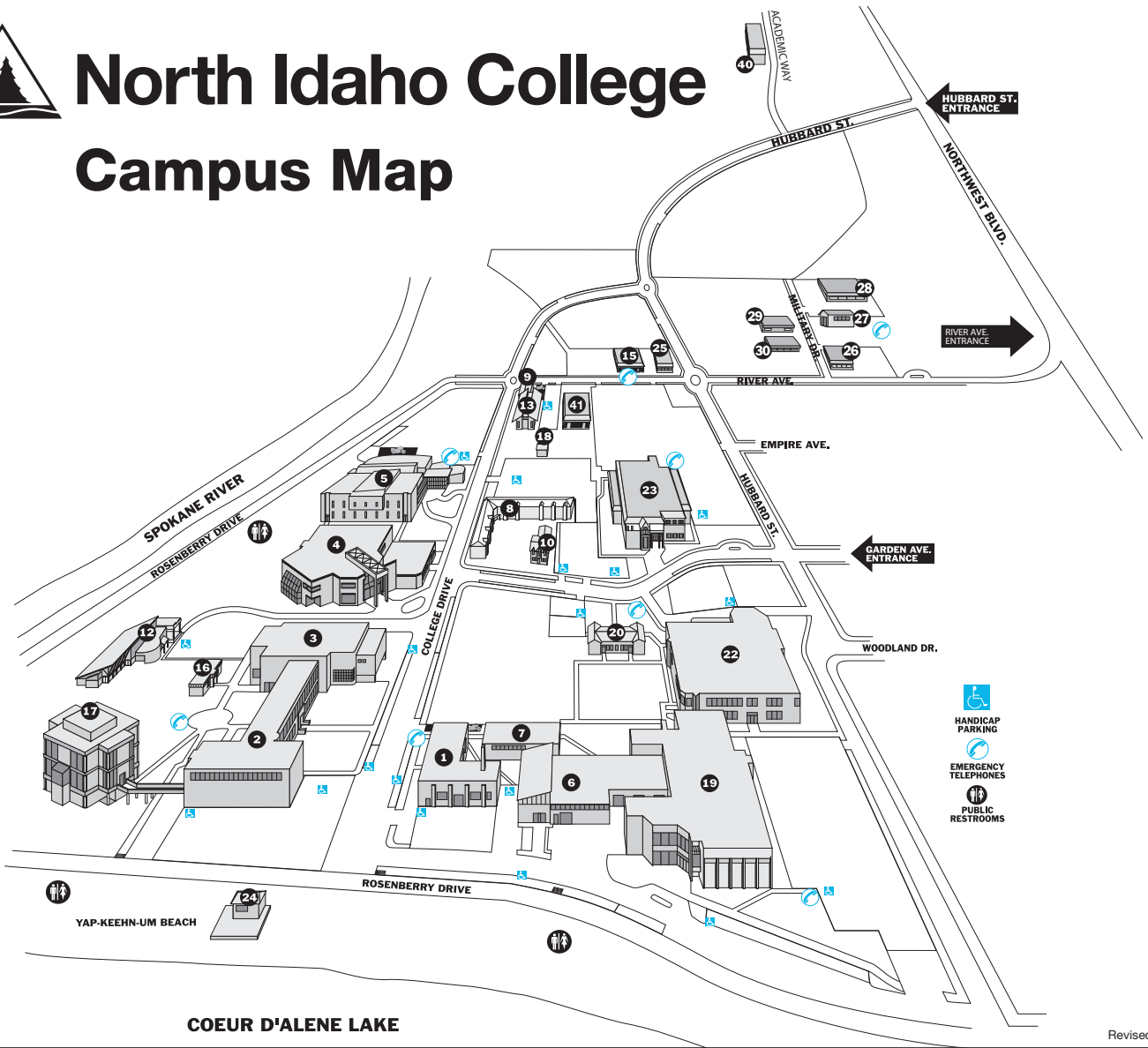
Signature of Applicant: \_\_\_\_\_ Date: \_\_\_\_\_

Idaho public colleges subscribe to the principles and laws of the State of Idaho and the Federal Government, including applicable executive orders pertaining to civil rights. These institutions are committed to the policy that all persons shall have equal access to programs and facilities without regard to age, color, creed, marital status, national or ethnic origin, physical handicap, race, religion, or sex.





# North Idaho College Campus Map

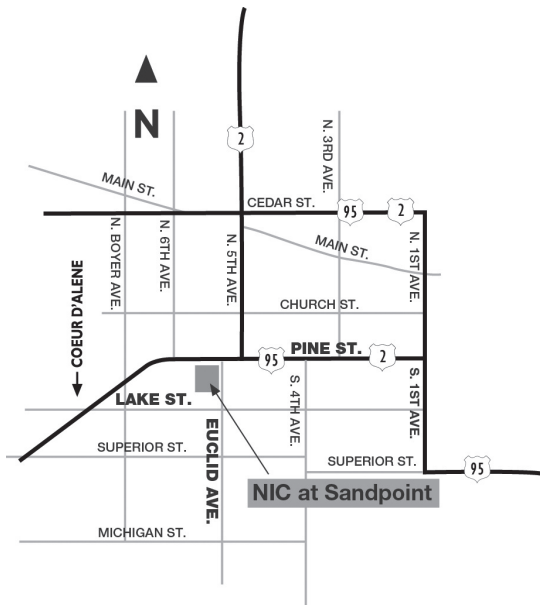


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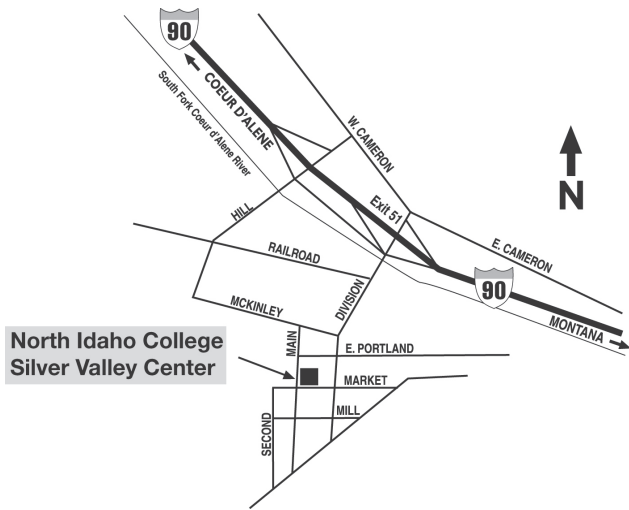
## Map Legend

- 1 McLain Hall (MCL)**  
Outdoor Pursuits, classrooms, computer labs
- 2 Lee-Kildow Hall (LKH)**  
Admissions, Business Office, Financial Aid, Student Accounts, Registrar, classrooms, College Skills Center (Math/Science Study Center, Peer Tutoring), English and Modern Languages Division, Social and Behavioral Sciences Division
- 3 Christianson Gymnasium (GYM)**  
Athletics Department offices, gymnasium
- 4 Edminster Student Union Building (SUB)**  
Market Food Court, Caffeinated Cardinal, Mica Peak Exchange (Bookstore), ASNIC offices, Student Services (Advising, Student Health), Cardinal Card Office (Campus Information, Student ID, Parking Services), Career Services, Veterans Resource Center, Student Support Services, Auxiliary Services, Recreational Sports, American Indian Support Advisor, Student Housing
- 5 Meyer Health and Sciences Building (MHS)**  
Health Professions and Nursing Division, Natural Sciences Division, classrooms, labs, DeArmond Auditorium, Rolphe Auditorium
- 6 Siebert Building (SBT)**  
Information Technology, The Sentinel, classrooms
- 7 Industrial Arts (IND)**  
Carpentry lab, classroom
- 8 Residence Hall (RES)**
- 9 Post Hall (PST)**  
Athletics Department offices
- 10 Fort Sherman Officers' Quarters (FSQ)**  
Faculty offices, Heritage Conference Room
- 12 Lakeside Center (LKC)**  
Children's Center
- 13 Winton Hall (WIN)**  
Physical Education classrooms, faculty offices
- 15 River Building (RVB)**  
Mail and Copy Center, Fleet Services
- 16 Lee Hall Annex (LHA)**  
Writing Center, Modern Languages Lab
- 17 Seiter Hall (STR)**  
Math, Computer Science, and Engineering Division; Counseling, Center for New Directions, faculty offices; Disability Support Services
- 18 Fort Sherman Powder Magazine (FSM)**  
Study area/Meeting space
- 19 Hedlund Building (HED)**  
Emery's Restaurant, Career and Technical Education offices, AEC/GED, Outreach Office, classrooms
- 20 Sherman Building (SHE)**  
President's Office, Community Relations, Communications and Marketing, NIC Foundation, Alumni Association, Grants
- 22 Boswell Hall (BOS)**  
Schuler Performing Arts Center; classrooms; Corner Gallery; Box Office; Communication, Fine Arts, and Humanities Division
- 23 Molstead Library (MOL)**  
Library, Todd Lecture Hall, computer labs, Office of Instruction, Institutional Effectiveness, eLearning, classrooms, University of Idaho classroom, University of Idaho Recruitment Office, LCSC classroom, LCSC Recruitment Office
- 24 Sunspot**  
Concessions and rentals (June-September)
- 25 Timber Hall (TMB)**  
Testing Center
- Headwaters Complex**
  - 26 Facilities Operations (HWCA)**  
Custodial Services
  - 27 Human Resources (HWCB)**
  - 28 Maintenance Department (HWCC)**
  - 29 Landscape Services (HWCE)**
  - 30 Security (HWCD)**
- 40 Harbor Center**  
Lewis-Clark State College, University of Idaho
- 41 Student and Wellness Recreation Center (SWRC)**  
Recreational Sports, learning labs

# Maps

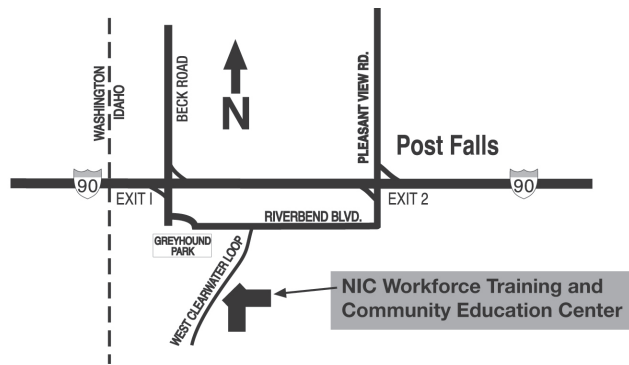


**NIC Sandpoint Center**  
 102 South Euclid Street, Sandpoint, ID  
 (208) 263-4594 [www.nic.edu/sandpoint](http://www.nic.edu/sandpoint)

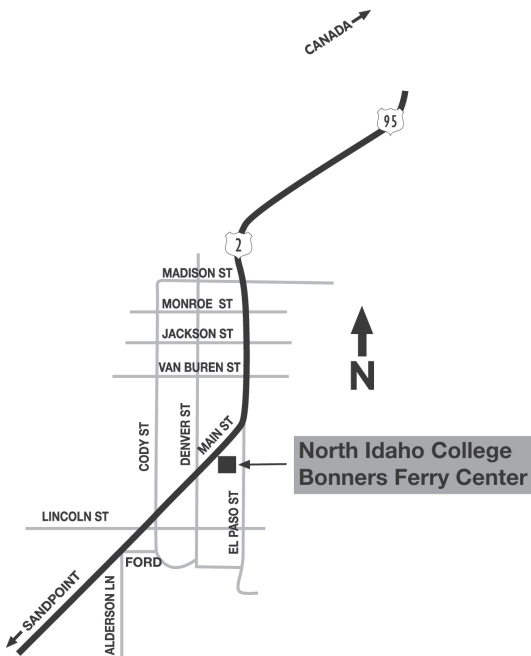


**North Idaho College  
 Silver Valley Center**

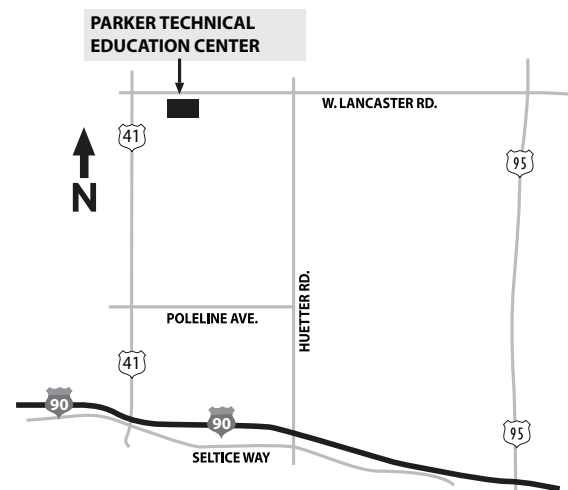
**NIC Silver Valley Center**  
 1323 Main Street, Kellogg, ID  
 (208) 783-1254 [www.nic.edu/silvervalley](http://www.nic.edu/silvervalley)



**NIC Workforce Training and Community Education Center**  
 525 Clearwater Loop, Post Falls, ID  
 (208) 769-3333 [www.workforcetraining.nic.edu](http://www.workforcetraining.nic.edu)



**NIC Bonners Ferry Center**  
 6791 Main Street, Ste. B, Bonners Ferry, ID  
 (208) 267-3878 [www.nic.edu/bonnersferry](http://www.nic.edu/bonnersferry)



**Parker Technical Education Center**  
 7064 West Lancaster Road, Rathdrum, ID  
 (208) 929-4040 [www.nic.edu/tech](http://www.nic.edu/tech)

**Altizer, Helena**

*Instructor in Nursing - ADN Program*  
M.S., Nursing Education  
B.S., Nursing  
A.S., Registered Nurse  
Oncology Certified Nurse  
Certified Nursing Educator

**Anderson, Amie**

*Instructor in Paralegal*  
J.D., Law  
B.S., Political Science & History

**Anderson, Douglas**

*Division Chair of Trades and Industry*  
M.S., Vocational Education  
B.S., Diesel Technology  
A.A., General Studies  
A.A.S., Diesel Technology/Automotive Technology

**Arrington, Dale**

*Instructor in Chemistry*  
Ph.D., Inorganic Chemistry  
B.S., Chemistry

**Ballard, Gail**

*Instructor in Education*  
M.Ed., Elementary Education, Curriculum and Instruction  
B.S., Elementary and Early Secondary Education

**Becker, Marsha**

*Instructor in Nursing - ADN Program*  
M.S.N., Nursing  
B.S., Nursing  
A.S., Nursing  
Certified Nursing Educator

**Bennett, Michael**

*Instructor in Computer Aided Design Technology*  
M.S., Adult/Organizational Learning and Leadership  
B.S., Trades and Industry  
B.S., Industrial Arts  
Advanced Occupational Specialist Certification, Drafting

**Bennett, Bob**

*Instructor in English*  
M.A., English  
B.A., Art

**Blanchette, Kirsten**

*Instructor in Chemistry*  
M.S., Chemistry  
B.S., Mathematics  
B.S., Chemistry

**Booth, Curt**

*Instructor in Computer Aided Design Technology*  
M.S., Professional-Technical Education  
B.S., Design Graphics - Mechanical Engineering Technology  
A.S., General Studies

**Bourne, Audry**

*Instructor in Speech/Assistant Division Chair for Communication and Fine Arts*  
M.A., Communication and Leadership Studies  
M.S., Adult/Organizational Learning and Leadership  
B.A., Speech Communication

**Bradbury, Stephanie**

*Instructor/Program Director-Pharmacy Technology*  
A.S., General Studies  
Certified Pharmacy Technician

**Brasil, Paul**

*Instructor in History*  
M.A., History

**Briggs, Larry**

*Dean of General Studies*  
Ph.D., American History  
M.A., American History  
B.A., Social Studies/History

**Bromley, Susanne**

*Instructor in Mathematics*  
M.S., Mathematics  
M.Ed., Education  
B.A., Mathematics Education

**Brown, Lucas**

*Instructor in English*  
M.A., English  
B.A., English

**Buchan, Blythe**

*Instructor in Nursing - ADN Program*  
M.S., Nursing Educator  
B.S., Nursing  
A.A./A.D.N., Nursing  
Medical Surgical Nurse Certification

**Budge, Trevor**

*Instructor in Composites and Quality Assurance*  
Certified Composites Technician and Instructor  
FAA Airframe and Powerplant Certification

**Caires, Damian**

*Instructor in Mathematics*  
M.A.T., Mathematics  
B.S., Mathematics

**Cameron, Audrey**

*Instructor in English*  
Ph.D., English  
M.A., English and Scottish Literature

**Carr, Geoffrey**

*Instructor in Journalism*  
M.A., Communications  
B.A., Communications/Journalism

**Cengiz, Aaron**

*Instructor in Spanish*  
M.A., Spanish Translation and Interpreting  
B.A., Spanish

**Chivvis, Paul**

*Instructor in Resort/Recreation Management*  
M.S., Adult/Organizational Learning and Leadership  
B.S., Environmental Science  
A.S., General Studies  
Instructor Certificate

**Christensen, Anthony**

*Instructor in Diesel Technology*  
A.A.S., Diesel Technology  
Post-Secondary Standard Occupational Specialist

**Clark, Daniel**

*Instructor in Machining and CNC Technology*  
Two-Year Machinist Certification

**Cloyd, Aaron**

*Instructor in English*  
Ph.D., English  
M.A., English  
B.A., History/Theology  
A.A., Fine Arts

**Codr, Brad**

*Instructor in Anthropology*  
Ph.D., Anthropology  
M.A., Anthropology  
B.S., Sociology and Anthropology

**Coons, Brian**

*Instructor in Outdoor Power/Recreational Vehicle Technology*  
B.S., Engineering Technology  
A.S., Electronics Engineering Technology

Commercial Radiotelephone Radar Endorsement Certification  
AC&W Radar 5 Level Certification  
Motorcycle Technology Certification

**Cooper, Rhena**

*Instructor in Biology*  
M.S., Biology  
B.S., Biology  
B.S., Education

**Crowley, Sue**

*Instructor in Allied Health*  
M.S., Nursing  
B.S., Nursing

**Cunnington, David**

*Instructor in Biology*  
M.A.Ed., Post Secondary Biology Education  
B.A., Secondary Biology Education  
B.S., Zoology, Biology/Zoology Secondary Biology Education  
A.A., General Studies

**Cunnington, Cheryl**

*Instructor in Mathematics*  
M.A.T., Mathematics Education  
B.A., Mathematics Education

**Curtis, Carl**

*Instructor in English*  
Ph.D., Humanities  
M.A., English: Rhetoric and Composition  
B.A., Art History  
B.A., English: Literary Studies

**Czurda-Page, Kathleen**

*Instructor in Computer Information Technology*  
Ed.S., Adult/Organizational Learning and Leadership  
M.S., Adult/Organizational Learning and Leadership  
B.S., Career and Technical Education  
A.A.S., Computer Applications in Business  
Educational Certification  
Industry Certification

**Darty, Myra**

*Instructor in Psychology*  
M.S., Psychology  
B.S., Psychology

**Davis, Erin**

*Instructor in English*  
M.A., English  
B.A., English Education

**Doyle, Christy**

*Dean of Health Professions and Nursing*  
M.Ed., Adult Education and Training  
B.S., Workforce Education and Development

**DeHaas, Calvin**

*Instructor in Collision Repair*  
B.S., Professional-Technical Education

**Downing, Jonathan**

*Instructor in Chemistry*  
M.S., Chemistry  
B.S., Chemistry

**Dreisbach, Earl**

*Instructor in Welding*  
A.A.S., Welding Technology

**Droesch, Jason**

*Instructor in Mathematics/Division Chair - Math, Computer Science, and Engineering*  
 M.S., Mathematics  
 B.S., Mathematics, Statistics  
 A.A., General Studies

**Duarte, Victor**

*Instructor in Psychology*  
 Ph.D., Educational Psychology  
 M.Ed., Counseling and Human Services  
 B.A., Psychology  
 A.A., General

**Duman, Lloyd**

*Instructor in English/Division Chair of English and Humanities*  
 M.A., Leadership and Change  
 M.A., Linguistics and Literature  
 B.S., Education  
 B.S., English

**Earnhart, Angela**

*Instructor in Mathematics*  
 M.S., Mathematics  
 B.S., Mathematics/Computer Science

**Edmundson, Christina**

*Instructor in Business*  
 LL.M., Tax Law  
 J.D., Law  
 B.A., Economics

**Edwards, Jane**

*Instructor in Nursing - ADN Program*  
 M.S., Nursing Education  
 B.S., Nursing

**Erickson, Jennifer**

*Instructor in Art*  
 M.F.A., Fine Art  
 B.F.A., Fine Art  
 A.S., Fine Art

**Estes, Scott**

*Instructor in Spanish*  
 M.A.T., Spanish  
 B.A., Spanish/ESL

**Flint, Amy**

*Instructor in English*  
 M.A., English  
 B.A., English

**Foster, David**

*Instructor in Biology*  
 M. Ed, Biology Education  
 B.S., Range Resources  
 B.S., Wildlife Resources  
 B.A., Mathematics/History

**Frey, Jonathan**

*Instructor in English*  
 M.F.A., Creative Writing: Fiction  
 B.F.A., Theatre Studies: Playwriting

**Gabiou, Mary Jule**

*Instructor in Mathematics*  
 M.A.T., Mathematics  
 B.A., Mathematics

**Garwood, Dean**

*Instructor in Geology*  
 M.S., Geology  
 B.S., Geology  
 Geographic Information Systems Certification

**Gibson, Carrie**

*Instructor in Mathematics*  
 M.S., Mathematics  
 B.A., Mathematics  
 A.S., General Studies

**Godfrey, Laura**

*Instructor in English*  
 Ph.D., American Literature  
 M.A., American Literature  
 B.A., English

**Graves, Randy**

*Instructor in Computer Information Technology - Network Support*  
 M.S., Adult/Organizational Learning and Leadership  
 B.S., Adult Education  
 A.S., Electronics  
 Vocational Teacher Certification, Information Technology  
 Microsoft Certified Trainer  
 Certified Technical Trainer

**Hallett, Casey**

*Instructor in Physics*  
 M.S., Physics  
 M.Ed., Education  
 B.S., Physics

**Hayes, Ryan**

*Instructor in Physical Education*  
 Ph.D., Kinesiology  
 M.S., Human Performance/Sports Studies  
 J.D., Law  
 B.A., Law and Society

**Heidenreich, Brittany**

*Instructor in Practical Nursing*  
 M.S., Nursing Education  
 B.A., Nursing

**Horswill, Michael**

*Instructor in Art*  
 M.F.A., Fine Art  
 B.A., Interdisciplinary  
 A.A., Fine Art

**Huff, Dwayne**

*Instructor in Music*  
 D.A., Music  
 M.M., Music-Piano Pedagogy  
 B.M., Music-Piano Pedagogy

**Hurdle, James**

*Instructor in General and Airframe Aviation Maintenance*  
 B.S., Aerospace Engineering  
 Airframe Mechanic License

**Jacoby, Joe**

*Instructor in Theatre*  
 M.F.A., Theatre Arts  
 B.A., Theatre Arts, Directing Option

**Jenkins, Jeffrey**

*Instructor-Front of House*  
 B.S., Education-Professional-Technical and Technology Education  
 A.A., General Studies

**Jensen, John**

*Instructor in Speech Communication/Philosophy*  
 M.A., Philosophy  
 B.A., Communications/Journalism  
 A.A., Liberal Arts

**Jewell, James**

*Instructor in History*  
 M.A., History

**Johnson, Kimberlie**

*Instructor in English*  
 M.A., English  
 B.A., English

**Johnston, Ann**

*Librarian*  
 M.L.S., Library Science  
 B.S., Biology

**Joseph, Ryan**

*Instructor in Chemistry*  
 Ph.D., Chemistry  
 B.S., Chemistry

**Kaitz, Ed**

*Instructor in Philosophy*  
 Ph.D., Philosophy and Religion  
 M.A., Philosophy  
 B.A., Political Science/Russian

**Kellerman, Lisa**

*Librarian*  
 M.S., Library and Information Sciences  
 B.A., Foreign Languages - Spanish  
 B.A., English

**Kelly, Michael**

*Instructor in Biology*  
 M.S., Biology  
 B.S., Ecology and Systematic Biology

**Keylon, Tacey**

*Instructor in Computer Applications and Office Technology*  
 M.Ed, Business Education-Technology Emphasis  
 B.S., Business Education  
 A.S., Business Education  
 Career Technical Certification-Business Education,  
 School to Work Coordinator, Marketing Education,  
 Consumer Economics  
 MOS-Word, Excel, Access, and PowerPoint Certification

**Kimberling, Kurt**

*Instructor in Machining and CNC Technology*  
 Postsecondary Standard Occupational Specialist –  
 Machining Technologist

**Kingma, Jeremy**

*Instructor in Engineering*  
 M.S., Material Science and Engineering  
 B.A., Modern Languages - German Option  
 B.S., Mechanical Engineering

**Klassen, Kristina**

*Instructor in Psychology*  
 M.S., Applied Psychology - Community College Teaching  
 Emphasis  
 B.A., Psychology

**Klassen, John**

*Instructor in Mathematics*  
 M.A., Master of Arts in Teaching Mathematics  
 B.A., Mathematics

**Lamb, Alan**

*Instructor in Anthropology/Division Chair of Social and Behavioral Sciences*  
 M.A., Sociology  
 B.A., Anthropology

**Lambert, Paula**

*Instructor in Biology/Division Chair of Natural Sciences*  
 M.Ed., Curriculum and Instruction  
 B.S., Biology  
 B.S., Secondary Education

**Lee, Jamison**

*Instructor in English*  
 Ph.D., English Studies  
 M.A., English Education  
 B.A., English

**Leonard, Brandon**

*Instructor in Mathematics*  
 M.A., Mathematics  
 B.A., Mathematics

**Lien, JoSann**
*Instructor in English*

M.A., English  
 B.S.Ed., Secondary Education  
 B.A., English  
 A.A., English

**Lippert, Michelle**
*Instructor in Philosophy*

M.A., Ethics  
 B.A., Biology/Chemistry

**Love, James**
*Instructor in Sociology*

Ph.D., Sociology

**Lockman, Ashley**
*Instructor in Communication*

M.A., Communication  
 B.A., Communication  
 A.A., General Studies

**Mack, Eric**
*Instructor in Mathematics*

M.S., Mathematics  
 B.S., Mathematics  
 B.S., Music Theory

**Magill, Mark**
*Instructor in Automotive*

Master Auto Tech Certification  
 Idaho Standard Occupational Specialist

**Manzardo, Paul**
*Instructor in Physical Education/Division Chair of Physical Education and Resort/Recreation Management*

M.S., Sport and Recreation Administration  
 B.S., Business Management  
 Certified Recreational Sports Specialist

**Marosi, Jacalyn**
*Instructor in American Sign Language*

M.Ed., Curriculum and Instruction  
 B.A., ASL/English Interpretation  
 A.A., Sign Language Studies  
 National Interpreter Certification  
 Certificate of Interpretation

**Masingill, Michelle**
*Instructor in Accounting Assistant Program*

M.Ed., Education: Professional Technical and Technology Education  
 B.S., Business Administration, Accounting Emphasis  
 A.A., Business Administration/Accounting  
 Advanced Occupational Specialist: Accounting Certification

**Mathes, Gerard**
*Instructor in Music*

M.Mus, Composition  
 B.Mus, Music Composition

**May, Jonathan**
*Instructor in Heating, Ventilation, Refrigeration, and Air Conditioning*

Heating, Ventilation, Air Conditioning, and Refrigeration Certification  
 Standard Occupational Specialist

**Mendez, Max**
*Instructor in Music*

M.A., Music-Conducting, Vocal Pedagogy  
 B.A., Music

**Mendoza, Kristin**
*Instructor in Business*

M.A.C.C., Accounting  
 B.A., Economics

**Michaud, Molly**
*Instructor in English/Assistant Division Chair of English and Humanities*

M.A., English Literature  
 B.A., English  
 A.A. and A.S., General Studies

**Miller, Ekaterina**
*Instructor in Mathematics*

M.S., Mathematics  
 B.S., Mathematics

**Miller Green, Kathleen**
*Instructor in Child Development*

M.A., Interpersonal Communication  
 B.A., Psychology and Speech Communication Arts

**Misner, Josh**
*Instructor in Communication*

Ph.D., Leadership Studies/Communication  
 M.A., Communication and Leadership  
 B.A., Applied Communication Studies  
 A.A., English

**Mitchell, Kimberly**
*Instructor/Coordinator - Practical Nursing*

M.S.N., Nursing  
 B.S.N., Nursing

**Mitchell, Karla**
*Instructor in Mathematics*

M.A.T., Mathematics  
 B.S.Ed., Mathematics  
 S.S., Mathematics

**Mohr, Dana**
*Instructor in Business Leadership/Entrepreneurship*

M.S., Real Estate and Construction Management  
 J.D., Law  
 B.A., Philosophy  
 Business Management/Finance, Building Trades Construction, and Paralegal/Legal Assisting Certification

**Murren, Nancy**
*Instructor in Nursing - ADN Program*

M.S.N., Nursing  
 B.S.N., Nursing  
 Certified Nurse Educator

**Nehr-Kanet, Sonja**
*Instructor/Program Director - Medical Laboratory Technology*

M.S., Human Reproductive Biology  
 BMLSc, Medical Laboratory Science

**Nelson, Cynthia**
*Instructor in Mathematics*

Ph.D., Mathematics and Science Education  
 M.S., Natural Science Education  
 B.S., Microbiology

**Okon, Ronald**
*Instructor in Machining/CNC Technology*

A.A.S., Machine Technology

**Olson-Horswill, Laurie**
*Instructor in English*

Ph.D., Education Curriculum and Instruction  
 M.A.T., English and Education  
 B.A., English and History

**Pavel, Cindy**
*Instructor/Program Director - Medical Assistant Program*

Diploma, Massage Therapy  
 M.P.A., MPA Healthcare Administration  
 B.A., Secondary Education  
 B.S., Biology  
 A.A.S., Medical Assistant  
 Certified Massage Therapist

**Payton, Tammy**
*Instructor in College Skills*

M.Ed., Curriculum and Instruction - Computers in Education  
 B.S., Mathematics - Secondary Education

**Pickett, Erlene**
*Instructor in Nursing - ADN Program*

M.S.N., Nursing  
 B.S.N., Nursing  
 A.D.N., Nursing

**Piekarski, Matthew**
*Instructor in Carpentry and Construction Technology*

B.S., Environmental Science / Emphasis in Energy Efficiency  
 A.A., General Studies  
 A.A.S., Carpentry Management  
 Technical Certificate, Carpentry

**Raam, Lonnie**
*Instructor in Diesel Technology*

A.A.S., Diesel

**Raetzke, Jessica**
*Instructor in Photography/Art*

M.F.A., Fine Art - Photography  
 B.F.A., Fine Art - Photography

**Ramirez, Janice**
*Instructor in Nursing - ADN Program*

M.S.N., Nursing  
 B.S., Community Health Education  
 A.S., Nursing  
 Certified Nurse Educator

**Reeds, Karen**
*Instructor in Biology*

M.S., Microbiology  
 B.S., Microbiology  
 A.A., Business Administration

**Reese, John**
*Instructor in Sociology/Paralegal*

J.D., Law  
 B.A., English  
 A.A., General Studies

**Richards, Bill**
*Instructor in Geology/Geography*

M.S., Geology  
 B.S., Geology

**Ripplinger, Nancy**
*Instructor in Computer Science and Mathematics*

M.Ed., Education Curriculum/Instruction  
 B.S., Computer Science

**Roth, Ildiko**
*Instructor in Business*

M.S., Statistical Science  
 Ed. S., Adult/Organizational Learning and Leadership  
 M.S., Adult/Organizational Learning and Leadership  
 M.B.A., Business Administration  
 B.S., Construction Engineering

**Ruppel, Karen**
*Instructor in ATEC*

Ph.D., Education  
 Ed.S, Educational Leadership  
 M.Ed., Professional-Technical Education  
 B.A., Secondary Education - Fine Arts Emphasis  
 Advanced Occupational Specialist  
 Career-Technical Administrator Endorsement

**Schlauch, Steve**
*Instructor in Automotive Technology*

M.Ed., Vocational Technical Education  
 B.S., Vocational Technical Education  
 A.A.S., Diesel Technology

**Schoch, Lesley**  
*Instructor in Child Development*  
 M.Ed., Education  
 B.A., Family Life and Child Development

**Schoesler, Donald**  
*Instructor in ATEC*  
 B.A., Business Administration  
 Advanced Occupational Specialist  
 Senior Professional in Human Resources

**Schwartz, Brad**  
*Instructor in Web/Graphic Design*  
 B.F.A., Bachelor of Fine Arts

**Seguin, Brian**  
*Public Services Collection Development Librarian*  
 M.L.I.S., Library and Information Sciences  
 B.S., Graphic Design  
 A.A.S., Commercial Art

**Shibley, Sue**  
*Instructor in Computer Application and Office Technology/  
 Division Chair of Business and Professional Programs*  
 M.Ed., Adult and Organizational Learning,  
 B.A.Ed, Family and Consumer Science,  
 Secondary Education  
 A.A.S., Health Information Technology  
 A.A., Home Economics

**Silvas, Kathleen**  
*Dean of Career, Technical, and Workforce Education*  
 M.A., Education  
 B.S., Economics

**Simkins, Sherry**  
*Instructor in Speech/  
 Division Chair of Communication and Fine Arts*  
 M.A., Communication  
 B.S., Communication

**Smith, Yvette**  
*Instructor/Program Director - Dental Hygiene*  
 M.Ed., Educational Leadership – Community College/  
 Higher Education  
 B.A., Board of Governors  
 A.A.S., Dental Hygiene

**Stickelmeyer, Jake**  
*Instructor in Nursing*  
 M.S.N., Nursing Education  
 B.S., Nursing  
 A.A., Nursing

**Stockham, Shane**  
*Instructor in Maintenance/Industrial Mechanics*  
 M.S., Agricultural Education  
 B.S., Agricultural Education

**Straw, Timothy**  
*Instructor in Welding*  
 M.S.Ed., Adult/Organizational Learning and Leadership  
 B.S.Ed., Professional-Technical Teacher Education  
 A.A.S., Welding Technology  
 Advanced Occupational Specialist Certification/PTE  
 Administrator Certification  
 Technical Workforce Training Academic Certification  
 Certified Welding Inspector and Educator

**Struble, Tracy**  
*Instructor in Communication*  
 M.A., Communication and Leadership Studies

**Swanson, Alfred**  
*Instructor/Coordinator - Law Enforcement, Basic Patrol  
 Academy*  
 M.S., Criminal Justice  
 B.S., Criminal Justice Administration  
 A.S., Criminal Justice  
 Limited Occupational Specialist

**Tanksley, Richard**  
*Instructor in Political Science*  
 Ph.D., Political Science  
 M.A., International Studies  
 B.S., Economics

**Tedmon, Richard**  
*Instructor in Business*  
 M.S., Policy and Strategy  
 M.S., Management  
 B.A., Biology  
 Certificate, Certified Financial Planning

**Templeman, Laura**  
*Instructor in Philosophy*  
 M.A., Philosophy, Comparative Eastern and Western  
 Philosophies  
 B.A., Philosophy, Pre-Med  
 Philosophical Counselor Certification

**Thompson, David**  
*Instructor in Physics/Astronomy*  
 Ph.D., Chemistry  
 M.S., Physics  
 B.S., Physics

**Trombold, John**  
*Instructor in English*  
 Ph.D., English and Comparative Literature  
 M.Philosophy, English and Comparative Literature  
 M.A., English  
 B.A., English/History

**Tschida, Ben**  
*Instructor in Mathematics*  
 M.S., Mathematics  
 B.S., Mathematics

**Valente, Faith**  
*Instructor in Speech Communication/English*  
 Ph.D., Leadership Studies  
 M.A., Organizational Leadership  
 B.S., Communication  
 Meyers Briggs Type Indicator Certified Counselor

**Valle, Philippe**  
*Instructor in Art*  
 M.A., Communication Technologies  
 Advanced Certification, Professional Technical Education

**Van Middlesworth, Julie**  
*Instructor in Environmental Science/Geology*  
 M.S., Geology - Aqueous Geochemistry  
 B.S., Geology

**Vogeler, Robert**  
*Instructor in Mathematics*  
 M.S., Mathematics  
 B.S., General Physical Science

**Walters Piekarski, Nichole**  
*Division Chair of Health Professions*  
 M.S.N., Nursing Education  
 A.A.S., Registered Nursing  
 A.A., General Studies  
 Certificate, Nursing LPN

**Ware, Randy**  
*Instructor in Psychology*  
 Ph.D., Higher Education Administration  
 M.S., Psychology  
 B.S., Psychology

**Wasserman, Margaret**  
*Instructor in Nursing - ADN Program*  
 M.S.N., Nursing  
 B.S., Nursing  
 A.S., Nursing  
 Certificate, Advanced Practice Nurse (Nurse Practitioner -  
 Family Practice)

**White, Angela**  
*Instructor in Hospitality Management*  
 B.A., Hospitality Business Management  
 A.A., General Studies

**Wilcox, Liza**  
*Instructor in English*  
 M.S., English Literature and Composition  
 B.S., Education, English, History

**Wilderson, Kelly**  
*Instructor in Mathematics*  
 M.A.T., Mathematics  
 B.A., Elementary Education  
 B.A., Russian Language  
 B.A., Mathematical Sciences  
 Certification, Secondary Education (Mathematics)

**Wilhelm, Casey**  
*Instructor in Business*  
 M.B.A., Business Administration  
 M.S., Adult/Organizational Learning and Leadership  
 B.A., Business Administration

**Zao, Cheri**  
*Instructor in Biology*  
 M.D., Medicine  
 M.S., Biology  
 B.S., Chemistry

**Zenker, Lizabeth**  
*Instructor in Biology*  
 B.S., Biochemistry  
 D.C., Chiropractic

**OFFICE AND DEPARTMENT LOCATOR**

<u>OFFICE</u>	<u>BUILDING</u>	<u>OFFICE</u>	<u>BUILDING</u>
Admissions Office	Lee-Kildow Hall	Graphic Design	Kaniksu Building (Post Falls)
Adult Education Center	Hedlund Building	Health Professions and Nursing	Meyer Health and Sciences Building
Advising	Edminster Student Union Building	Health Services	Edminster Student Union Building
Alumni Association	Sherman Building	Heating, Ventilation, and AC/Refrigeration	Hedlund Building
Art Department	Boswell Hall	Human Resources	Headwaters Complex
Art Gallery (Corner Gallery)	Boswell Hall	Industrial Mechanic/Millwright	Parker Technical Education Center
Athletics	Christianson Gymnasium/Post Hall	Information Technology	Siebert Building
Automotive Technology	Parker Technical Education Center	Institutional Effectiveness	Molstead Library
Auxiliary Services	Edminster Student Union Building	Journalism	Siebert Building
Bookstore (Mica Peak Exchange)	Edminster Student Union Building	Law Enforcement	Kaniksu Building (Post Falls)
Business and Professional Programs	Hedlund Building	Library	Molstead Library
Business Office	Lee-Kildow Hall	Machine and CNC Technology	Parker Technical Education Center
Campus Security Office	Headwaters Complex	Mail Services	River Building
Career Services	Edminster Student Union Building	Mathematics, Computer Science, and Engineering	Seiter Hall
Carpentry	Industrial Arts Building	Mechatronics	Parker Technical Education Center
Center for New Directions	Lee-Kildow Hall	Music Department	Boswell Hall
Children's Center	Lakeside Center	Natural Sciences Division	Meyer Health and Sciences Building
College Skills Center	Lee-Kildow Hall	Nursing	Meyer Health and Sciences Building
Collision Repair Technology	Parker Technical Education Center	Office of Instruction	Molstead Library
Communication and Fine Arts	Boswell Hall	Outdoor Pursuits	McLain Hall
Communications and Marketing	Sherman Building	Parking Services	Edminster Student Union Building
Community and Government Relations	Sherman Building	Peer Tutoring	Lee-Kildow Hall (College Skills Center)
Community Education	Workforce Training Center	Physical Education	Winton Hall
Computer Aided		Practical Nursing	Meyer Health and Sciences Building
Design Technology	Parker Technical Education Center	President's Office	Sherman Building
Computer Information Technology	Hedlund Building	Career and Technical Education	Hedlund Building
Computer Labs	Boswell Hall and Molstead Library	Recreational Sports	Edminster Student Union Building
Copy Center	River Building	Registrar's Office	Lee-Kildow Hall
Counseling	Lee-Kildow Hall	Sentinel (Student Newspaper)	Siebert Building
Culinary Arts	Hedlund Building	Social and Behavioral Sciences	Lee-Kildow Hall
Customized Training	Workforce Training Center	Student Accounts	Lee-Kildow Hall
Diesel Technology	Parker Technical Education Center	Student Activities	Edminster Student Union Building
Disability Support Services	Seiter Hall	Student Government (ASNIC)	Edminster Student Union Building
eLearning	Molstead Library	Student Services	Edminster Student Union Building
English and Humanities	Lee-Kildow Hall	Testing Center	Timber Hall
Facilities	Headwaters Complex	Theatre Department	Boswell Hall
Financial Aid Office	Lee-Kildow Hall	Trades and Industry	Parker Technical Education Center
Flexible Learning Center	McLain Hall	Transportation	River Building
Foreign Language Lab	Lee Hall Annex	Veterans Services	Edminster Student Union Building
GED	Hedlund Building	Welding Technology	Parker Technical Education Center
		Writing Center	Lee Hall Annex

# Instructional Programs

## Transfer Programs

*Prepares students for transfer to a four-year college. May lead to an Associate of Arts (A.A.) or Associate of Science (A.S.) Degree.*

American Indian Studies  
American Sign Language Studies  
Anthropology  
Art  
Biology, Botany, Zoology  
Business Administration  
Business Education  
Chemistry  
Child Development  
Communication  
Computer Science  
Criminal Justice  
Education  
Engineering  
English  
Entrepreneurship  
Environmental Science  
Forestry/Wildlife/Range Management  
General Studies  
Geology  
History  
Humanities  
Interdisciplinary Studies  
Journalism  
Mathematics  
Modern Languages  
Music  
Nursing (RN)  
Pharmaceutical Manufacturing  
Philosophy  
Photography  
Physical Education  
Physics/Astronomy  
Political Science and Pre-Law  
Pre-Medical Related Fields  
Pre-Microbiology/Medical Technology  
Pre-Nutrition  
Pre-Physical Therapy  
Pre-Veterinary Medicine  
Psychology  
Public Relations  
Social Work  
Sociology  
Theatre

## Career Technical/ Occupational Programs

*Prepares students for immediate employment. May lead to a Technical Certificate or an Associate of Applied Science (A.A.S.) Degree.*

Accounting Assistant  
Administration of Justice  
Administrative Assistant  
Aerospace Technology  
Automotive Technology  
Aviation Flight Training  
Aviation Maintenance Technology  
Business Leadership  
Carpentry and Construction Technology  
Collision Repair Technology  
Computer Aided Design Technology  
Computer Applications  
Computer Information Technology  
Construction Management  
Culinary Arts  
Diesel Technology  
Fire Service Technology  
Graphic Design  
Healthcare Informatics Technician  
Health Information Fundamentals  
Heating, Ventilation,  
    Air Conditioning, and Refrigeration  
Hospitality Management  
Industrial Mechanic/Millwright  
Law Enforcement  
Machining and CNC Technology  
Medical Administrative Assistant  
Medical Assistant  
Medical Billing Specialist  
Medical Coding  
Medical Laboratory Technology  
Medical Receptionist  
Nursing (PN)  
Office Specialist/Receptionist  
Office Technology  
Outdoor Recreation Leadership  
Paralegal  
Pharmacy Technology  
Physical Therapist Assistant  
Radiography Technology  
Virtual Administrative Assistant  
Web Design  
Welding Technology