Casper College

2026-2027

Programs and Course Catalog

Academic Credit

Students should expect to devote the following time per credit, per week for a 15-week semester. A period is 50 minutes or a minimum of 80 hours of on-the-job training with college supervision.

- 1 lecture credit equals 1 period with 2 hours of outside preparation.
- 1 laboratory or activity credit equals 2 to 4 periods and necessary outside preparation.
- 1 music studio credit equals 30 minutes of applied instruction plus three hours of practice per week.

An equivalent amount of work is expected for internships, practicums, studio work, clinicals, independent study, compressed courses, and other academic work leading to the award of academic credit.

Academic Standing

Students are considered in good standing if they attend Casper College for one or more semesters and earn a 2.0 or higher grade point average for that semester or for their cumulative average. The registrar notifies students who are not making satisfactory academic progress. Students may be placed on academic probation when:

- The student does not meet the minimum qualifications for admission or
- The student does not meet the minimum grade standard to be considered in good standing

The college removes students from academic probation who attain a semester grade point average that meets or exceeds the minimum requirements to be considered in good standing. Students who fail to achieve good standing after one semester on academic probation are subject to academic suspension.

The college issues an academic suspension when a student fails to achieve good standing after one semester on academic probation or for academic dishonesty. Students on academic suspension may not register for academic courses for at least one semester unless they receive an approved petition for an exception.

Financial aid probation and suspensions are issued in accordance with the rules and regulations governing the form of aid received and are determined separately from academic probation and suspension.

Corrective measures come in the following forms:

1. *Current semester problems*. Students having trouble with a course may withdraw from the course or the college (see Schedule Changes), audit the course (see Auditing Courses), or request an incomplete or in progress (see Incomplete and In Progress). All timelines must be met to make any changes.

2. *Academic standing*. Academic standing is based on either semester grade point average or cumulative grade point average (see Academic Standing), thus allowing redemption in one semester regardless of past record and avoiding a penalty for one below-par semester in an otherwise satisfactory record.
3. *Academic Forgiveness*. Degree-seeking students currently attending Casper College may petition the registrar to remove up to two semesters, in their entirety, from the calculation of the student's cumulative grade point average (GPA) and degree credits. The registrar will approve a petition for students who have completed 24-semester credits of college-level courses with a 2.5 GPA after the last semester listed on the forgiveness petition. This is a one-time-only option.

Advising

Your advisor is essential to your success. Be sure to meet with your advisor before enrolling in classes or making schedule changes.

Advisor Assignments
Students are assigned an advisor who has specific knowledge about their chosen program after their first semester advising session. Students will be sent their advisor's name and contact information via email when this assignment is made. This Information can also be found in myCCinfo. Students have the right to request a new advisor. Students who wish to change their advisor should contact Enrollment Services. Students who want a specific advisor must obtain permission from that advisor and contact Enrollment Services to make the change.

Advisor's Roles and Responsibilities

- Help advisees develop realistic educational career plans.
- Assist advisees in planning a program of study consistent with abilities and interests.
- Assist with selecting courses and verify that prerequisites are met.
- Provide registration priority date and time.
- Monitor the advisee's progress toward educational and career goals.
- Discuss the relationship between instructional programs and occupation/career goals.
- Interpret instructional policies, procedures, and requirements.
- Approve educational transactions (e.g., schedule, drops, adds, withdrawals, change of major, waivers, removing academic holds, etc.).
- Maintain a file for each advisee.
- Refer students to appropriate resources and services.
- Request reassignment of the advisee to another advisor, if necessary.
- Assist advisees in identifying career opportunities.
- Direct advisees to career counselors, if necessary.

Advisee's Roles and Responsibilities

- Share interests, goals, and educational career plans.

- Report personal information that has a bearing on your academic success, such as the number of hours working, family responsibilities, and financial aid status.
- Be familiar with the academic catalog and student handbook.
- Know your advisor's advising hours and phone number.
- Schedule an appointment or meet during designated advising hours. Call if you are unable to keep an appointment. A meeting with your advisor is required before you can register.
- Keep a record of graduation requirements, which is your responsibility to fulfill.
- Keep correspondence from the college and meetings with your advisor(s).
- Know deadlines listed in class schedules and the Student Handbook.
- Contact the appropriate student support services when necessary.
- Prepare for meetings with your advisor, particularly when registering for classes. Have an idea about what courses you want to take for your program and electives. Have a list of alternative courses in case the courses you want are closed or waitlisted.
- Become familiar with how to use myCCinfo.
- Alert your advisor immediately about difficulties affecting your coursework or continued enrollment.
- Provide Enrollment Services with your current address and phone number.

Class Attendance

Students are expected to attend all sessions of the classes in which they are enrolled. Students should contact the Vice President for Student Services Office (VPSS) in the Nolte Gateway Center or 307-268-2201 to request an excused absence. Qualifying reasons for granting an excused absence can be found here. The VPSS Office will notify instructors about students with excused absences. Students should contact their instructors as soon as they can to inform them about an absence. The VPSS Office may request that students provide appropriate documentation for their excused absence. Students must complete any makeup work assigned upon their return. Contact the VPSS Office at 307-268-2201 about documentation requirements.

Students should check with their instructors about their class attendance policies. Students must notify their instructors as soon as possible about dates for which they plan to request an excused absence and abide by their instructor's class policies.

Instructors are required to report the names of students who attend class irregularly or are absent for several consecutive class sessions to the VPSS Office, which will contact students about their intent to continue in the course. Excessive absences or tardiness may result in a lower grade or a faculty-initiated withdrawal from the course.

Automatic Withdrawal: Students who have not attended or participated in a course they are enrolled in during the first week of the semester will be automatically dropped from that course at the beginning of the second week. Contact your instructor if you have questions about automatic withdrawal.

Instructors, sponsors, or coaches submit a list of students who will miss class because of a college-sponsored activity to the student's faculty and the VPSS Office at least seven days before the first scheduled day to be gone. Students should talk with their instructors before any absences.

Choosing a Major

Many students come to Casper College with a clear idea about what they want to accomplish while they are here; other students are undecided. Instructors can provide information about the areas in which they teach. The Career Services staff in the Enrollment Services/Student Success Center can assist students with choosing a major or career. Services include exploring majors and how those majors translate into careers, creating academic and career timelines, building career readiness skills employers want, and building career experience. They are located in the Nolte Gateway Center, third floor.

Casper College offers certificates and associate's degrees. It is important when choosing a major or career to know the differences between the programs we offer. Certificates usually take two semesters to finish and include only the courses directly relevant to the field. An associate of applied science degree is a good choice for students who want to earn a college degree and enter the workforce, but do not plan to pursue a bachelor's degree. Students interested in pursuing a bachelor's degree will want to select majors that lead to an associate of arts, an associate of business, an associate degree in nursing, or an associate of science. These programs parallel the first two years of most bachelor's degree programs.

Course Evaluations

Casper College evaluates credit-bearing courses in which five or more students are enrolled. Near the last day of class, students will receive a link in their college email to an online evaluation for the course. Completing course evaluations assists instructors in improving their teaching. Student participation in course evaluations is highly encouraged. The information provided is anonymous.

Course Grading

The college issues student grade reports twice a semester. The mid-term grades indicate the student's academic progress partway through the semester and are not part of the student's permanent record. Final semester grades are a part of the student's permanent record. Students may view their grades online in myCCinfo.

Students who think they received an incorrect grade should contact their instructor. Instructors may submit a Grade Change Form to Enrollment Services if there has been an error. Grades are eligible to be changed for up to one year from the date the grade was assigned.

Grades	Grade Points

A — excellent	4 points
B — above average	3 points
C — average	2 points
D — below average	1 point
F — Failure	0 points
I — incomplete	0 points
S — satisfactory	0 points
U — unsatisfactory	0 points
AU — Audit	0 points
W — withdrawn	0 points
Drop	0 points

Grade Point Averages (GPA). There are two types of grade point averages (GPA): semester and cumulative. Semester GPA is calculated by multiplying the credits a course is worth by the number of points the earned grade is worth to give the total grade points for that course. Do this for each course taken in a semester. Add the points for all the courses taken that semester and divide by the total number of credits attempted for that semester. The cumulative GPA is calculated by dividing the total number of grade points earned at Casper College by the total number of semester credits earned. Students can view their semester and cumulative GPAs in myCCinfo.

Incomplete Grade. An incomplete (I) is awarded when a student, for reasons beyond the student's control, is unable to finish the course and the student would otherwise have had a passing grade. A student who receives an incomplete must arrange with the instructor to complete the course. To be eligible for an incomplete grade, the following criteria must be met.

1. The student must have completed at least 50% of the course.
2. The student must have a passing grade.
3. The instructor and student must establish a timeframe to complete the course, not to exceed one year. If the student does not complete within this timeframe, the student will be assigned an F for the course.

The student must submit a completed Incomplete Grade Contract to the Registrar's Office.

Satisfactory/Unsatisfactory. Courses that offer a S/U grading option are identified as such in the Academic Catalog. Students may select S/U grading when they register for the course or before the withdrawal deadline date. Instructor permission is required for any changes after registration. Grade points are not awarded for S/U or pass/fail grades; therefore, courses awarded an S/U grade are not included in the student's GPA calculation. S/U grades may count toward a degree, satisfactory progress, and athletic or activity eligibility requirements

Audit. Students may audit a course when they want to attend a class but do not want to receive credit or a grade for that course. Students who wish to audit a course indicate so at the time of enrollment. Students who satisfactorily complete an audited course, including regular attendance, will receive an audit notation on their transcript. They will not receive credit or a grade. The college charges full tuition to audit a course.

Withdraw/Drop. Students may drop a course at any time before the census date listed in the academic calendar (usually day 10 of the semester) using myCCinfo, or by going to Enrollment Services. Dropped courses are not recorded on a student's transcript. Students may withdraw from courses after the census date in myCCinfo, or they may submit a completed Change Form to Enrollment Services before the withdrawal deadline listed on the academic calendar. Withdrawals are recorded on the student's transcript as a withdrawn (W) course. After the withdrawal deadline, a student may submit a completed petition with their instructor's permission to Enrollment Services. Additional documentation may be requested, and approval is not guaranteed. Check the refund schedule for any applicable charges.

Course Identification

Course Load

Course load is measured in credits enrolled in each semester. Twelve credits is full-time enrollment. On average, a student will need to take a minimum of 16 credits to complete an associate's degree within two years. The maximum recommended credit load is 19 credits per semester. Students should discuss appropriate course loads with their academic advisors. The vice president for student services or an enrollment service director may grant an exception to this rule for a student with a good academic record.

Course Numbering System

General Transfer Course Numbers

1000- 1499	Freshman
2000- 2499	Sophomore

If the second digit starts with 0, 1, 2, 3, or 4, the course is academic/transfer.

Vocational Course Numbers

1500- 1999	Freshman
2500- 2999	Sophomore

If the second digit starts with 5, 6, 7, 8, or 9, the course is vocational/technical.

Course Numbers for Undergraduate Variable Courses:

Course Type	General	Occupational

Capstone Courses	1395, 2395	1895, 2895
Field Studies	1460, 2460	1960, 2960
Directed Studies/Research Problems	1465, 2465	1965, 2965
Internship/Practicum	1470, 2470	1970, 2970
Independent Studies	1475, 2475	1975, 2975
Cooperative Work Experience	1480, 2480	1980, 2980
Seminar	1485, 2485	1985, 2985
Topics	1490, 2490	1990, 2990
Workshop	1495, 2495	1995, 2995

Capstone Courses - The capstone course is usually the last class in a program of study. It represents a "crowning achievement" as a capstone does in architecture. A capstone course may require a project and/or presentation and an assessment exam to test interdisciplinary skills (like math, writing, critical thinking, etc.). A capstone may also involve a final research paper exploring a topic of interest emerging from a student's program of study. Ultimately, a capstone allows the student to demonstrate the knowledge and skills gained during their college career.

Field Studies - A combination of classroom instruction with participation in the actual field being studied.

Directed Studies/Research Problems - Special projects and research carried out under the direction of faculty.

Internship/Practicum - Unpaid work experience related to a chosen field of study. (Approximately 30 hours of work experience equates to 1 credit hour.)

Independent Studies - A course designed and taken under a special contract with a faculty member.

Cooperative Work Experience - A planned academic program allowing students to blend classroom theory with related paid work experience. Prerequisites: Approval of an appropriate faculty member. (80 hours of work experience equates to one credit hour.)

Seminar - An in-depth examination of a specific issue or subject. A seminar can meet at varying times and durations during a semester. (16 contact hours equate to one credit hour.)

Special topics courses - Courses that are not part of the regular catalog curriculum and are designed to meet special needs or interests and provide flexibility in the curriculum to meet a variety of situations. Courses may be designed to meet the interests of a group of students, to fit the talents of a visiting professor, to study a current problem, or to meet similar educational situations. Special topics courses may be offered in any department and are normally semester-long courses for one to three credits, with a maximum of six credits if different topics are

offered. Special topics may be offered, however, as short courses by visiting professors for one or two credits. Special topics courses offered are listed in the registration material for each semester.

Workshop - Specific training or instruction with an emphasis on skill development. Involves interactive participation among class members and instructors. Students acquire a basic understanding of principles and procedures in the field being addressed. (1-3 hrs. lec.)

Credit for Prior Learning

Credit for prior learning (CPL) is a process that enables students to demonstrate what they have learned and translate that learning into college credit. CPL validates college-level knowledge and competencies acquired through life, work, military experience, civic engagement, independent study, and professional development classes or training. It may be used to obtain credit for courses taken at another institution that did not transfer. Contact the Records Office with questions about CPL.

Casper College offers students four ways to earn CPL: by exam, professional certification, portfolio, or military training and experience. Academic departments may identify courses for which students can earn credit by taking an exam. Exams may be departmental, College Level Exam Program (CLEP), College Entrance Exam Board Advanced Placement Exam (AP), or International Baccalaureate (IB).

Departmental Exam. Students who have experience, training, or noncredit coursework in a subject area may request to earn credit by exam. If the request is granted, the departmental instructor will develop an exam that corresponds with the outcomes, objectives, and rigor of the course and program. Exams may be written, oral, or demonstration.

CLEP. CLEP assesses proficiency through exams on business, composition and literature, world languages, history and social sciences, and science and mathematics. Most CLEP exams cover lower-level and introductory knowledge.

AP. High schools administer AP exams to students who have taken an AP course. The test assesses the student's subject area knowledge. Casper College awards credits to students who pass an AP exam at the minimum level for a course approved for AP credit.

IB. High schools administer IB exams to students who have taken an IB course. The test assesses the student's subject area knowledge. Casper College awards credits to students who pass an IB exam at the minimum level for courses approved for IB credit.

The college may grant credit for professional certifications that directly correspond to a course. To receive credit, students must provide documentation of the certification that is current and valid to an instructor in the area of study that corresponds with the certification. Upon acceptance of the certification, the instructor submits a request to issue CPL to their department chair or

program director for approval. Upon approval, the request is submitted to the Records Office which records the credits.

Students who have earned military education and training credit may apply for CPL. Casper College uses the *American Council of Education's (ACE) Guide to the Evaluation of Educational Experiences in the Armed Services* to determine credit for military training and experience and *ACE's National Guide to College Credit for Workforce Training* to determine credit in exceptional cases. The college reserves the right to make an independent determination of equivalency of courses or to require departmental exams and evaluations.

This institution will inquire about each veteran or veteran benefits eligible person's previous education and training. Previous military transcripts will be evaluated, and credit will be granted, as appropriate. The student will be made aware of the final decision. The college will grant one-semester credit for physical education to students who present JST Transcripts to the Records Office, establishing an active duty of 181 days or more. Students who present such evidence for more than one year of active duty will be granted two-semester credits.

The student will request their Joint Services Transcript (JST) be sent to the Registrar's office for evaluation. The Registrar's Office will evaluate transcripts for classes that could count for elective or general education credit. Students who would like their transcripts evaluated for specific course credits that could apply to their program of study must contact their advisors. Advisors will coordinate with the Records Office to review the transcripts to determine if there are any specific course credits eligible to apply towards a student's program of study.

The following are the requirements of CPL at Casper College:

1. Casper College awards CPL for coursework in disciplines related to its degree and certificate programs. Students must prove their knowledge and competencies in an area of study offered by the college.
2. Students may only apply for CPL for courses applicable to curriculum requirements in the student's declared program of study.
3. Students must be registered as degree-seeking and admitted into a specific program during the semester in which CPL is awarded.
4. Students may apply for CPL only one time for the same course.
5. Students must submit official documentation of previous work or demonstrated competencies before CPL will be awarded.
6. Students may not earn CPL for courses in which they are currently enrolled, have audited, received a failing grade, or earned credit in a higher-level course in the same subject area. Students cannot use CPL to replace a failed grade or raise a passing grade in the same course.
7. Students placed in a higher-level course may earn CPL in lower-level courses by taking an approved exam. Any exams taken for CPL must be completed by the midterm of the semester in which the student is enrolled in the higher-level course.
8. CPL satisfies prerequisite requirements the same as coursework does.

9. Students who take AP or IB exams must score the minimum or above on each test to receive credit. They must request an official transcript from the College Board for AP exams or International Baccalaureate for an IB exam be sent to the Record's Office, which makes the placement decision for AP and IB credit.
10. Students who intend to use CPL in a course in which a grade has not been awarded to meet degree requirements at another institution should check the requirements of the receiving institution.
11. The Records Office awards and records CPL. Credits are assigned but a grade is not. Credit earned through CPL is not used to calculate grade point averages.
12. To earn a grade for a departmental exam, students must pass an assessment developed by a Casper College instructor with expertise in the subject area that corresponds to the published course outcomes. Students must pass all work assessed at 75% or a "C" level proficiency or better for all of the course outcomes and competencies.
13. All CPL must be awarded before the semester before graduation.
14. Casper College may accept CPL awarded by a regionally accredited institution with the approval of the Records Office and the dean of the school in which a similar course would typically be offered. These credits have the same limitations in meeting graduation requirements as CPL earned at Casper College and will be used in computing the total credits of CPL for which a student is eligible.
15. Regardless of the amount of CPL the college awards, degree-seeking students must earn at least 15 of the credits applied toward graduation through the completion of Casper College coursework. For certificate programs, 40% of the total required credits must be earned through Casper College coursework. No more than 40% of the total credits applied toward a degree or certificate may be awarded through CPL.

Credit for Prior Learning Fees

Students who take a CLEP exam must pay a non-refundable third-party vendor fee and a non-refundable college processing fee. Contact the Testing Center at 307-268-3850 or testing@caspercollege.edu for more information on fees. Students who take a departmental exam or earn CPL via a professional certification must pay a college processing fee to Accounting and Financial Management. Students requesting military education and training credit are not required to pay a processing fee. High schools administer AP and IB exams. Students should inquire with their respective high schools for more information.

Credit for Prior Learning Appeals

Students who wish to appeal a CPL decision must follow the student grievance policy before the end of the semester in which the student requested CPL or the CPL exam was administered. The college will deny appeal requests made after the deadline.

CLEP Course Equivalencies

CLEP Subject Exam	Minimum Exam Score	Equivalent Casper College Course	Semester Credits Awarded
Business			
Financial Accounting	50	ACCT 2010: Accounting I	4
Information Systems	50	COSC 1200: Computer Information Systems	3
Introductory Business Law	50	BADM 2010: Business Law I	3
Principles of Management	50	MGT 2100: Principles of Management	3
Principles of Marketing	50	MKT 2100: Principles of Marketing	3
Composition and Literature			
American Literature	50	ENGL 2310: American Literature I	3
Analyzing and Interpreting Literature	See English Department		
College Composition Modular*	55	ENGL 1010: English Composition	3
English Literature	50	ENGL 2210: English Literature I	3
World Language			
French Language: Level 1 and 2	41-49	FREN 1010: First-Year French I	4
French Language: Level 1 and 2	50-56	FREN 1020: First-Year French II	8
French Language: Level 1 and 2	57+	FREN 2030: Second Year French I	12
German Language: Level 1 and 2	40-47	GERM 1010: First-Year German I	4
German Language: Level 1 and 2	48-53	GERM 1020: First-Year German II	8
German Language: Level 1 and 2	54+	GERM 2030: Second Year German I	12
Spanish Language: Level 1 and 2	41-49	SPAN 1010: First-Year Spanish I	4
Spanish Language: Level 1 and 2	50-53	SPAN 1020: First-Year Spanish II	8
Spanish Language: Level 1 and 2	54+	SPAN 2030: Second Year Spanish I	12
History and Social Sciences			
American Government #	50+	POLS 1000: American and Wyoming Government	3
History of the United States I #	50+	HIST 1211: United States to 1865	3
History of the United States II #	50+	HIST 1221: United States from 1865	3

Introduction to Educational Psychology	50+	EDFD 2100: Educational Psychology	
Introductory Psychology	50+	PSYC 1000: General Psychology	3
Introductory Sociology	50+	SOC 1000: Sociological Principles	3
Principles of Microeconomics	50+	ECON 1020: Microeconomics	3
Principles of Macroeconomics	50+	ECON 1010: Macroeconomics	3
Western Civilization I: Ancient Near East to 1648	50+	HIST 1110: Western Civilization I	3
Western Civilization II: 1648 to Present	50	HIST 1120: Western Civilization II	3
Science and Mathematics			
Biology	50+	BIOL 1010: General Biology	4
Calculus	50+	MATH 2200: Calculus I	4
Chemistry	50+	CHEM 1020: Chemistry I, CHEM 1030: Chemistry II	8
College Algebra	50+	MATH 1400: College Algebra	4
Precalculus	See Math Department		
General Exam - General exams provide credit for applied degrees ONLY			
Humanities	50		6
College Mathematics	50	Math 1000: Problem Solving	3
Natural Sciences	50		6

* -- The essay portion of the test is required and will be scored by Casper College English Faculty.

-- This credit will not meet the requirement for Wyoming Constitution. If credit is to be awarded the individual must pass the CLEP exam and the one credit Wyoming Constitution course. This still may not meet the requirements for the University of Wyoming.

Advanced Placement Course Equivalencies

AP EXAM	Minimum Exam Score	Equivalent Casper College Course	Semester Credits Awarded
Arts			
Art History	4+	ART 2020:Art History II	3
Music Theory	4+	MUSC 1030: Written Theory I & MUSC 1035: Aural Theory I	4

English			
English Language and Composition	4+	ENGL 1010: English Composition I	3
History			
Macroeconomics	4+	ECON 1010: Macroeconomics	3
Microeconomics	4+	ECON 1020: Microeconomics	3
Psychology	3+	PSYC 1000: General Psychology	3
United States History*	4	HIST 1211: United States to 1865 & HIST 1221: United States from 1865	6
STEM			
Biology	4+	BIOL 1010: General Biology	4
Calculus AB	3+	MATH 2200: Calculus I	4
Calculus BC	3+	MATH 2200: Calculus I & MATH 2205: Calculus II	8
Chemistry	4+	CHEM 1020: Chemistry I, CHEM 1030: Chemistry II	8
Computer Science A	4	COSC 1010: Introduction to Computer Science	4
Computer Science A	5	COSC 1010: Introduction to Computer Science & COSC 1030: Computer Science I	8
Physics 1	4+	PHYS 1110: General Physics I	4
Physics 2	4+	PHYS 1110: General Physics I & PHYS 1120: General Physics II	8
Mechanics	4+	PHYS 1310: College Physics I	4
Electricity and Magnetism	4+	PHYS 1320: College Physics II	4
Statistics	3+	STAT 2050: Fundamentals of Statistics	4
World Languages and Cultures			
French Language and Culture	3	FREN 1010: First-Year French I	4
French Language and Culture	4	FREN 1010: First-Year French I & FREN 1020: First-Year French II	8
French Language and Culture	5	FREN 1010: First-Year French I, FREN 1020: First-Year French II, & FREN 2030: Second-Year French I	12
German Language and Culture	3	GERM 1010: First-Year German I	4

German Language and Culture	4	GERM 1010: First-Year German I & GERM 1020: First-Year German II	8
German Language and Culture	5	GERM 1010: First-Year German I, GERM 1020: First-Year German II, & GERM 1030: Second-Year German I	12
Spanish Language and Culture	3	SPAN 1010: First-Year Spanish I	4
Spanish Language and Culture	4	SPAN 1010: First-Year Spanish I & SPAN 1020: First-Year Spanish II	8
Spanish Language and Culture	5	SPAN 1010: First-Year Spanish I, SPAN 1020: First-Year Spanish II, & SPAN 2030 Second-Year Spanish I	12

* This credit will not meet the requirements for Wyoming Constitution.

International Baccalaureate Course Equivalencies

IB Exam	Minimum Exam Score	Equivalent Casper College Course	Semester Credits Awarded
Arts			
Visual Arts	4+	ART 1000: General Art: Studio	4
Music HL	4	MUSC 1000: Introduction to Music	3
Music SL	4+	MUSC 1000: Introduction to Music	3
Theatre HL	4+	THEA 2050: Theatre Practice	3
Theatre SL		THEA 2050: Theatre Practice	3
Individuals and Societies			
Economics HL	5+	ECON 1010: Macroeconomics & ECON 1020: Microeconomics	6
History of the Americas HL*	4	HIST 1211: United States to 1865 & HIST 1221: United States from 1865	6
Macroeconomics, Principles of	6+	ECON 1010: Macroeconomics	3
Microeconomics, Principals of	6+	ECON 1020: Microeconomics	3
Philosophy HL	4+	PHIL 1000: Intro to Philosophy	3
Psychology HL	4+	PSYC 1000: General Psychology	3

Psychology SL	4+	PSYC 1000: General Psychology	3
Social and Culture Anthropology SL	4+	ANTH 1200: Introduction to Cultural Anthropology	3
World Religions SL	4+	RELI 1000: Introduction to World Religion	3
Language Acquisition			
French Language	4	FREN 1010: First-Year French I	4
French Language	5	FREN 1010: First-Year French I & FREN 1020: First-Year French II	8
French Language	6+	FREN 1010: First-Year French I, FREN 1020: First-Year French II, & FREN 2030: Second Year French I	12
German Language	4	GERM 1010: First-Year German I	4
German Language	5	GERM 1010: First-Year German I & GERM 1020: First-Year German II	8
German Language	6+	GERM 1010: First-Year German I, GERM 1020: First-Year German II, & GERM 1030: Second-Year German I	12
Russian Language	4	RUSS 1010: 1st Year Russian I	4
Russian Language	5	RUSS 1010: 1st Year Russian I & RUSS 1020: 1st Year Russian II	8
Spanish Language	4	SPAN 1010: First-Year Spanish I	4
Spanish Language	5	SPAN 1010: First-Year Spanish I & SPAN 1020: First-Year Spanish II	8
Spanish Language	6+	SPAN 1010: First-Year Spanish I, SPAN 1020: First-Year Spanish II, & SPAN 2030 Second-Year Spanish I	12
Language and Literature			
English Literature	4+	ENGL 2205: Introduction to Literature	3
Mathematics			
Mathematics: Applications and Interpretations SL	4-5	MATH 1000: Problem-Solving	3
Mathematics: Applications and Interpretations SL	6-7	MATH 1400: College Algebra	

Mathematics: Applications and Interpretations HL	5+	MATH 1450: Algebra & Trigonometry	5
Mathematics: Analysis and Approaches SL	5+	Math 1450: Algebra & Trigonometry	5
Mathematics: Analysis and Approaches HL	5+	MATH 2200: Calculus I	4
Sciences			
Biology HL	4+	BIOL 1010: General Biology I	4
Biology SL	4+	BIOL 1010: General Biology I	4
Chemistry HL	4	CHEM 1000: Intro to Chemistry	4
Chemistry HL	5+	CHEM 1020: Chemistry I, CHEM 1030: Chemistry II	8
Computer Science HL	4+	COSC 1010: Introduction to Computer Science & COSC 1030: Computer Science I	8
Computer Science SL	4+	COSC 1010: Introduction to Computer Science	4
Environmental Systems and Societies SL	4+	ENR 1200: Environmental Science	4
Physics HL	4	PHYS 1110: General Physics I & PHYS 1120: General Physics II	3

*This credit will not meet the requirement for the Wyoming Constitution course.
*Must have an official transcript from the International Baccalaureate Program.

Honor Rolls

The college uses semester or cumulative grade point averages to determine eligibility for the following honors:

- President's Honor Roll: This honor is granted at the end of the fall and spring semesters to full-time, degree-seeking students who completed at least 12 credits with a 3.5 or higher grade point average in the given semester.
- Dean's Honor Roll: This honor is granted at the end of the fall and spring semesters to part-time, degree-seeking students who completed at least 6 but fewer than 12 credits and non-degree-seeking students who completed 6 or more credits with a 3.5 or higher grade point average in the given semester.
- Graduate with Distinction: Students receiving associate's degrees who have earned a minimum of 32 semester credits (semester credits attempted as defined in Grade Averages) at Casper College and have attained a cumulative GPA of 3.8 or better in Casper College coursework graduate with distinction.

Honor Societies

- Lambda Epsilon Chi: A national honor society that recognizes excellence in legal assistant/paralegal studies.
- Phi Rho Pi: This national organization recognizes excellence in forensics competition and is open to students interested in competitive speaking.
- Phi Theta Kappa: An invitation to join Phi Theta Kappa, a national two-year college honorary scholastic fraternity, is dependent upon meeting several qualifications. The student must:
    - have a Casper College cumulative grade point average of 3.5 or higher at the time of initiation;
    - have completed at least 12 credits of Casper College coursework; and
    - be enrolled in Casper College for at least six credits in the semester he or she becomes eligible for membership and is initiated.
- Psi Beta: A National Honor Society in psychology that encourages professional development and psychological literacy of all students at two-year colleges through promotion and recognition of excellence in scholarship, leadership, research, and community service.

Moodle4Me

Moodle4Me is a Learning Management System (LMS) used in distance education classes and classes with a web component. At the beginning of each semester, Enrollment Services will email information to students enrolled in online courses on how to get their username, pin (password), and directions for logging into Moodle4Me. Classes become accessible on the first day of school.

To access Moodle4Me, go to https://www.caspercollege.edu/current-students. For technical assistance, contact the Digital Learning Center at www.caspercollege.edu/dlc.

Repeated Courses

If a student repeats a Casper College course, the most recently completed course will be used to calculate the student's cumulative grade point average. All attempts at a course are included on the student's official transcripts. Repeated courses may be eligible for financial aid.

Program Hiatus

Academic programs on hiatus are programs that remain active, but no longer accept students. When a program is moved to hiatus status, students who are currently enrolled in the program will have five years to complete the program before it will be permanently deactivated. If a program will be deactivated in fewer than five years after going on hiatus, the college will make a good-faith effort to coordinate a teach-out plan which may include: helping students identify a

similar degree program, substituting required coursework, and/or working with other institutions to assist in the teach-out process.

Transcripts

A transcript is a record of the courses a student has taken. Students can download unofficial transcripts from myCCinfo at any time. Students may request official transcripts by completing the request application. The College may not issue official transcripts if the student has any administrative holds. There is a charge for official transcripts.

Syllabi

Your instructor will provide a syllabus, or you can locate it on the college's website. Select "Current Students" on the homepage and then "Syllabi." Choose the semester, course group, and section number for the course syllabus you are looking for. Syllabi for the current semester are not usually available until after the first week of classes. Your course syllabus will include information on grading, assignments, and other important course information.

Transferring

Each college or university sets its own standards. Generally, a student in good standing at an accredited college or university can transfer to another accredited school without difficulty if the student has satisfactory grades (C or better) and proper course selection. Casper College is accredited by the Higher Learning Commission and other special accrediting bodies.

Students who plan to transfer to another college or university after they graduate should select Casper College courses in accordance with the requirements of the schools to which they plan to transfer and consult with their transfer institution. Student Success Professionals, who are located in the Nolte Gateway Center, third floor, are good resources for transfer information. The following suggestions may assist you with your transfer planning.

- Start planning for your transfer during your freshman year.
- Research colleges and universities to compare costs and programs.
- Request an academic catalog and admission materials from institutions you are considering.
- Select a transfer institution by the beginning of your sophomore year.
- Know admission, housing, and financial aid deadlines.
- Select Casper College classes that match your transfer institution's requirements. Their academic catalog and your advisor can help with this process.
- Apply for admission. Allow enough time to complete additional requirements such as a written essay, a portfolio of your work, or reference letters. Budget for application fees.
- Send a copy of your Casper College transcript with your application. Your transfer institution will need it to determine which credits will transfer.

- Contact the financial aid office at your transfer institution to inquire about financial aid. Enrollment Services can help in this process.
- Arrange for housing early. Many college towns have housing shortages. Contact the housing office if you plan to live on campus. They may offer special housing arrangements for upper-classmen, including single rooms.
- Have your official Casper College transcript sent to your transfer institution after you have completed your last semester.

Code of Conduct

Casper College is dedicated to providing an academic environment that supports learning and the development of responsible personal and social conduct. Students are expected to treat others with civility, dignity, and respect and abide by all federal, state, and local laws, and college policies, rules, and regulations both on and off campus. Casper College reserves the right to take necessary and appropriate action to protect the safety and well-being of the campus community. The Student Code of Conduct is a means to communicate the goals of the college and maintain a healthy campus environment.

In addition to policies listed in the Casper College Policy Manual, Student Handbook, and all school, department, or program requirements, the Student Code of Conduct outlines student rights, responsibilities, and prohibited behaviors. This is not an exhaustive list but a general guideline. Students residing in campus housing are subject to the conduct standards described in the Residence Hall Terms and Conditions for Occupancy, Apartment Lease Agreement, or other campus housing materials. Students participating in campus activities and college sports are subject to conduct standards set by the campus team/activity and regulations set by conference, regional, and national organizations responsible for the sanctioning of the sport or activity. Students are responsible for becoming familiar with all conduct policies, rules, and regulations specified in official college publications.

The college may discipline students who violate standards. Students have a right to due process to ensure sanctions are appropriate for the code violations, educational, corrective, and serve as a deterrent. Only the president can expel a student for code violations. Removal from college housing for conduct that endangered or has the potential to endanger the life or safety of any person, including the student, or resulted or may result in property damage is a reasonable safety response and not a disciplinary sanction for the purpose of this code.

Student Rights

Students have certain rights as long as they abide by all college policies and federal, state, and local laws. As a Casper College student, you have a reasonable expectation to the following rights.

1. Freedom to pursue your educational goals. The college will provide appropriate learning opportunities through its curricula.
2. Due process, unless specifically stated in a policy.
3. Freedom to express ideas and thoughts, inquire, and assemble provided your actions do not interfere with the rights of others or the effective operation of the college. The college retains the right to be informed about the scheduling of events to ensure events are orderly and conducted appropriately for an academic community.
4. Freedom from discrimination based upon race, color, national origin, age, sex, disability, sexual orientation, gender identity, or any other characteristic protected under applicable federal, state, or local law.
5. Privacy of personal information. Student educational records are only released when there is a legitimate need or permission is granted. Student educational records include

but are not limited to, a) academic transcripts and grade records, b) disciplinary proceedings transcripts, c) medical condition and treatment records, d) financial aid data, and e) attendance records.

6. Academic professionalism and standards include:

    a. Accurate information on course requirements through a written syllabus.
    b. Protection against arbitrary or capricious evaluation.
    c. Experience free and open discussion, inquiry, and expression in the classroom and student/instructor conferences that are respectful, rational, and germane to the issue at hand.
    d. Experience competent instruction and academic advising.
    e. Freedom to disagree, in a scholarly manner, with the data or views presented and reserve judgment on matters of opinion.
    f. Protection against an instructor's unprofessional disclosure of your views, beliefs, and political associations that may surface as a result of the instructor's teaching or advising. However, instructors have the right to contact college or off-campus officials if a student discloses information that indicates the student or others are in danger or engaging in or intend to engage in illegal activity.
    g. Protection from sexual misconduct.

Student Code of Conduct

This Student Code of Conduct is adapted, in part, from the NCHERM Group Model Developmental Code of Student Conduct and is used with permission. (See www.tngconsulting.org.)

Mission, Vision, and Philosophy

The college community is committed to fostering an environment conducive to academic inquiry, a productive college life, and thoughtful study and discourse. Student conduct falls under the responsibility of the Student Services Office, which is committed to an educational and developmental process that balances the interests of individual students with the interests of the college community.

A community exists based on shared values. Casper College students are expected to uphold and abide by the Student Code of Conduct. These standards are embodied within a set of core values that include integrity, social justice, respect, community, and responsibility. College community members bear responsibility for their conduct and assume reasonable responsibility for the conduct of others. The college uses campus conduct proceedings to assert and uphold the Student Code of Conduct when college community members fail to exemplify the five core values by engaging in violation of the codes.

The student conduct process exists to protect the interests of the community and to challenge those whose conduct is not in accordance with our policies; it is not intended to punish students. Sanctions are intended to challenge students' moral and ethical decision-making and to help them

bring their conduct in accordance with community expectations. When a student is unable to conform his or her conduct to community expectations, it may be determined through the student conduct process that the student should no longer share in the privilege of participating in the community.

The student conduct process is different from criminal and civil court proceedings. The student conduct process is conducted with fairness to all but does not include the same protections of due process afforded by the courts. Due process, as defined within these procedures, assures written notice and adherence to an objective process. No student will be found in violation of college policy without information showing that it is more likely than not that a policy violation occurred and sanctions will be proportionate to the severity of the violation and the student's cumulative conduct history.

Jurisdiction

The college annually provides students with a link to the Student Code of Conduct on the college website. Students are responsible for reading and abiding by the Student Code of Conduct.

The Student Code of Conduct and the student conduct process apply to individual students and college-affiliated student organizations. For student conduct, the term "student" refers to any person who has accepted an offer of admission or is registered in a Casper College program.

The college retains conduct jurisdiction over students who take a leave of absence, withdraw, or graduate if misconduct occurred before the leave, withdrawal, or graduation. The college alos retains conduct jurisdiction over students during break periods (ex. winter break and summer break), and for one full semester (fall or Spring) following a student's last semester of enrollment. If a student has an unresolved conduct matter, the college may place a hold on a student's ability to re-enroll or graduate until the matter is resolved. The student must satisfy all sanctions before re-enrollment eligibility. The college may notate suspension or expulsion on transcripts for serious misconduct committed while enrolled but reported after the responding student has graduated. The college may also notate on transcripts that a student has an unresolved conduct manner.

The Student Code of Conduct applies to behaviors that take place on the campus and at college-sponsored events and may apply off-campus when the DOS determines that the off-campus conduct affects the college community. Determining factors may include the following.

- It appears that the student's conduct may present a danger or threat to the health or safety of self or others

- The situation significantly impinges on the rights, property, or achievements of self or others

- The situation significantly breaches the peace or causes social disorder

- The situation is detrimental to the educational mission or interests of the college

The Student Code of Conduct may be applied to conduct online, via email, or other electronic media. Online postings such as blogs, web postings, chats, and social networking sites are considered public. These postings can subject a student to allegations of conduct violations if students or someone else obtains evidence of policy violations. The college does not regularly search online sites for code violations but may if someone brings concerns to the attention of college administrators. Most online speech not conducted on the college's networks or using college technology will be protected as free expression and not subject to this code, with two exceptions:

- A true threat is a threat a reasonable person would interpret as a serious expression of intent to inflict bodily harm upon specific individuals

- Speech posted online about the college or its community members that causes a significant campus disruption

The college may hold students accountable for conduct violations of their guests. The college may apply the code to people who reside in student housing who are not registered students. Visitors and guests of the college may seek a resolution of code violations committed against them by college community members.

There is no time limit on reporting code violations; however, it becomes more difficult over time for the college to obtain information and witness statements and to make determinations on alleged violations. Anyone aware of misconduct is encouraged to report it as soon as possible to the DOS, Campus Security, or the Casper College Care Team at www.caspercollege.edu/care-team

The college permits anonymous complaints; however, reporting anonymously may limit the college's ability to investigate and respond to a complaint.

College email is the college's primary communication method with students. Students are responsible for communications delivered to their college email address.

Violations of the Law

The college may investigate and address alleged violations of federal, state, and local laws under the Student Code of Conduct. When an offense occurs over which the college has jurisdiction, the college's conduct process will usually go forward notwithstanding any criminal complaint that may arise from the same incident.

The college reserves the right to exercise its interim suspension authority once it is notified that a student is facing a criminal investigation or complaint. (See the Student Conduct Authority section for additional grounds for interim suspension.) Interim suspensions are imposed until a hearing can be held, typically within two weeks. An interim-suspended student may request an

immediate conference with the DOS to show cause as to why the DOS should lift the interim suspension. This conference may be held to resolve the allegation or to determine if the interim suspension should continue. The interim suspension may be upheld if there is a danger to the community or when the ongoing criminal process delays or prevents the college from conducting its investigation and resolving the allegation. In such cases, the college will delay its hearing until it can conduct an internal investigation or obtain sufficient information, independently or from law enforcement, upon which to proceed. This delay will be no longer than two weeks from notice of the incident unless the reporting party submits a written request for a longer delay to allow the criminal investigation to proceed before the college process.

Students accused of crimes may request to take a leave from the college until the criminal charges are resolved. The following conditions still apply.

- The responding student must comply with college investigative efforts that will not prejudice their defense in the criminal trial.

- The responding student must comply with interim actions and restrictions imposed during the leave of absence.

- The responding student agrees that to be reinstated to active student status, he or she must be subject to and fully cooperate with the college conduct process and comply with all imposed sanctions.

Core Values and Behavioral Expectations

The college considers the behaviors listed under the core values as inappropriate for the college community and in opposition to the core values outlined in the Student Handbook. These expectations and codes apply to all students. The college encourages community members to report incidents that involve the following actions to college officials. Students found to have committed or attempted to commit the following misconduct is subject to the sanctions outlined in Conduct Procedures.

Core Value: Integrity

College students exemplify honesty, honor, and respect for the truth in all of their dealings. Behavior that violates this value includes but is not limited to the following.

1. Falsification. Knowingly furnishing or possessing false, falsified, or forged materials, documents, accounts, records, identification, or financial instruments.

2. Academic Dishonesty. Academic dishonesty includes but is not limited to cheating; plagiarism; buying, selling, or stealing exams; substituting for another person; collusion when collaboration is not approved; knowingly furnishing false information; and copyright violations. All of the following examples are considered plagiarism:

- Turning in someone else's work as your own
- Copying words or ideas from someone else (or another source) without giving credit
- Failing to put a quotation in quotation marks
- Giving incorrect information about the source of a quotation or not accurately presenting quoted material
- Changing words but copying the sentence structure of a source without giving credit
- Copying so many words or ideas from a source that it makes up the majority of your work, whether you give credit or not
- Unacknowledged use of materials prepared by another person or agency engaged in the selling of papers or other academic materials or materials found on the internet
- Using artificial intelligence (AI) to produce content for any assignment, unless the instructor explicitly permits such usage.

3. Unauthorized Access. Unauthorized access to college buildings or unauthorized possession, duplication, or use of means of access (i.e. keys, cards, etc.) to college buildings, or failing to timely report the loss of a college identification card or key.

4. Unauthorized Electronic Access. Unauthorized access to electronic systems. Examples include (but are not limited to): viewing, downloading, or sharing confidential electronic records, accessing an electronic system or database without permission, using access to an electronic system or database in a way other than authorized, sharing electronic system or database log-in credentials with another party, or using another person's log-in credentials to access any electronic system or database.

5. Collusion. Action or inaction with others to violate the Student Code of Conduct.

6. Deceit. Concealing or misrepresenting the truth within the college community.

7. Election Tampering. Tampering with the election of a college-recognized student organization.

8. Taking of Property. Intentional and unauthorized taking of college property or the personal property of another, including goods, services, and other valuables.

9. Stolen Property. Knowingly taking or maintaining possession of stolen property.

Core Value: Community

College students build and enhance their community. Behavior that violates this value includes but is not limited to the following.

1. Disruptive Behavior. Substantial disruption of college operations including obstruction of teaching, research, administration, other college activities, or other authorized non-college activities that occur on campus.

2. Rioting. Causing, inciting, or participating in any disturbance that presents a clear and present danger to self or others or causes physical harm to others or damage or destruction of property.

3. Disorderly Conduct. Engaging in behavior that is considered to be disorderly, lewd, or indecent by a reasonable person, or breaching the peace.

4 Unauthorized Entry. Misuse of access privileges to college premises or unauthorized entry to or use of buildings, including trespassing or propping or unauthorized use of alarmed doors for entry into or exit from a college building.

5. Trademark Violation. Unauthorized use (including misuse) of college or organizational names and images.

6. Damage and Destruction. Intentional, reckless, or unauthorized damage to or destruction of college property or the personal property of another.

7. IT and Acceptable Use. Violating the Acceptable Use Guidelines for Casper College Computing Resources.

8. Gambling.Violating Wyoming gambling laws. Gambling may include raffles, lotteries, sports pools, and online betting activities without prior approval.

9. Weapons. Possession, use, or distribution of explosives (including fireworks and ammunition), firearms (including air, BB, paintball, facsimile weapons, 3-dimensional and pellet guns), or other weapons or dangerous objects such as arrows, axes, machetes, nunchucks, throwing stars, or knives with a blade longer than 5 inches, including the storage of any item that falls within the category of a weapon in a vehicle parked on college property. For policies and procedures related to the concealed carry of firearms on campus, refer to the Casper College Policy Manual.

10. Tobacco or Vaping. Violating the college's Smoking Policy. Smoking/vaping or tobacco use is only allowed in designated areas. See the Smoking policy.

11. Fire Safety. Violation of local, state, federal, or college fire policies including the following.

a. Intentionally or recklessly causing a fire, which damages college or personal property or causes injury.

b. Failure to evacuate a college-controlled building during a fire alarm, regardless of whether the alarm is a planned drill.

c. Improper use of college fire safety equipment.

d. Tampering with or improperly engaging a fire alarm or fire detection/control equipment while on college property. Such action may result in a local fine in addition to college sanctions.

12. Animals. Violating the college's Animals on Campus Policy. See the Animals on Campus Policy for information on when and under what conditions animals are allowed on campus.

13. Wheeled Devices. Skateboards, roller blades, roller skates, bicycles, and similar wheeled devices are not permitted to be used inside college buildings, residence halls, or on tennis courts. Additionally, skateboards and other wheeled items may not be ridden on railings, curbs, benches, or any such fixtures that may be damaged by these activities and individuals may be liable for damage to college property caused by these activities.

Core Value: Social Justice

Students recognize that respecting the dignity of every person is essential to creating and sustaining a flourishing college community. They understand and appreciate how their decisions and actions impact others and are just and equitable in their treatment of all community members. They act to discourage and challenge those whose actions may be harmful to or diminish the worth of others. Conduct that violates this value includes but is not limited to the following.

1. Discrimination. Any act or failure to act that is based upon an individual or group's actual or perceived status (race, sex, color, national origin, religion, age, veteran status, political affiliation, disability, sexual orientation, gender identity, or any other characteristic protected under applicable federal, state, or local law) that is sufficiently severe that it limits or denies the ability to participate in or benefit from the college's educational program or activities. (see Sexual Misconduct and Discrimination)

2. Harassment. Any unwelcome conduct based on actual or perceived status including race, sex, color, national origin, religion, age, veteran status, political affiliation, disability, sexual orientation, gender identity, or any other characteristic protected under applicable federal, state, or local law. Report any unwelcome conduct to a college administrator, who will act to remedy and resolve reported incidents on behalf of the victim and community.

3. Retaliation. Intentional, adverse action taken by a responding individual or allied third party, absent legitimate nondiscriminatory purposes, against a participant or supporter of a participant in a civil rights grievance proceeding or other protected activity.

4. Bystanding. Complicity with or failure of any student to appropriately address known or obvious violations of the Student Code of Conduct or law or complicity with or failure of any organized group to appropriately address known or obvious violations of the Student Code of Conduct or law by its members.

5. Abuse of Conduct Process. Abuse or interference with or failure to comply with college conduct processes including the following examples.

a. Falsification, distortion, or misrepresentation of information.

b. Failure to provide, destroy, or conceal information during an investigation of an alleged violation.

c. Attempting to discourage an individual's proper participation in or use of the college conduct system.

d. Harassment (verbal or physical) or intimidation of a hearing or appeals panel member before, during, or following a college conduct proceeding.

e. Failure to comply with the sanction(s) imposed by the college conduct system.

f. Influencing or attempting to influence another person to commit an abuse of the college conduct system.

Core Value: Respect

Students recognize that respecting the dignity of every person and showing positive regard are essential to creating and sustaining a flourishing college community. They understand and appreciate how their decisions and actions impact others and act to discourage and challenge those whose actions may be harmful to or violate the rights of others. Conduct that violates this value includes but is not limited to the following:

1. Sexual Misconduct and Discrimination. (See Sexual Misconduct and Discrimination Policy.)

2. Hostile Environment Harassment. Engaging in unwelcome conduct against another individual that is sufficiently severe or pervasive that it alters the conditions of education or employment and creates an environment that a reasonable person would find intimidating, hostile, or offensive. The determination of whether an environment is "hostile" must be based on the totality of circumstances. These circumstances include, but are not limited to, the frequency of the conduct, its severity, and whether it is threatening or harassing. Petty slights, annoyances, and isolated incidents (unless extremely serious) will not rise. Harassment that is based on a protected status will be addressed through the Sexual Misconduct and Discrimination Policy.

3. Retaliation. Intentional, adverse action taken by a responding individual or allied third party, absent legitimate nondiscriminatory purposes, against a participant or supporter of a participant in a college grievance or conduct proceeding or other protected activity.

4. Bystanding. Complicity with or failure of any student to appropriately address known or obvious violations of the Student Code of Conduct or law or complicity with or failure of any organized group to appropriately address known or obvious violations of the Student Code of Conduct or law by its members.

5. Abuse of Conduct Process. Abuse or interference with or failure to comply with college conduct processes including the following examples.

a. Falsification, distortion, or misrepresentation of information.
b. Failure to provide, destroy, or conceal information during an investigation of an alleged violation.
c. Attempting to discourage an individual's proper participation in or use of the college conduct system.
d. Harassment (verbal or physical) or intimidation of a hearing or appeals panel member before, during, or following a college conduct proceeding.
e. Failure to comply with the sanction(s) imposed by the college conduct system.
f. Influencing or attempting to influence another person to commit an abuse of the college conduct system.

6. Offenses Against Others. Any action that deprives another individual's rights or ability to access their education.

7. Harm to People. Intentionally or recklessly causing physical harm or endangering the health or safety of any person.

8. Physical Violence. Initiating or inciting; attempting to initiate or incite; or participating in physical violence of any nature against any person. This includes fighting; assaulting; battering; using or threatening to use a knife, firearm, or other weapon; physically abusing, restraining, or transporting someone against their will; or any action which causes reasonable fear of bodily harm or injury.

9. Threatening Behaviors. Written or verbal conduct that causes a reasonable expectation of harm to the health or safety of any person or damage to property.

10. Intimidation. Intimidation is the implied threat or act that causes a reasonable fear of harm in another.

11. Bullying and Cyberbullying. Bullying and cyberbullying are repeated or severe aggressive behaviors that intimidate or intentionally harm or control another person physically or emotionally. This behavior is not protected by freedom of expression.

12. Hazing. An act that endangers the mental or physical health or safety of a student or that destroys or removes public or private property for initiation, admission into, affiliation with, or as a condition for continued membership in a group or organization. Participation or cooperation by the person being hazed does not excuse the violation. Failing to intervene to prevent, discourage, or report those acts may also be a code violation.

Core Value: Responsibility

College students are given and accept a high level of responsibility to themself, others, and the community. Behavior that violates this value includes but is not limited to the following.

1. Alcohol. Violation of the college's Alcohol and Drug-Free College policy. Alcohol is prohibited in campus housing and under most circumstances on campus. See the Alcohol and Drug Free College policy.

2. Drugs. Use, possession, or distribution of illegal drugs or other state or federally-controlled substances or drug paraphernalia.

3. Prescription Medications. Abuse, misuse, sale, or distribution of prescription or over-the-counter medications.

4. Failure to Comply. Failure to comply with the reasonable directives of college officials or law enforcement officers during the performance of their duties or failure to identify oneself to these people when requested to do so.

5. Financial Responsibilities. Failure to promptly meet financial responsibilities to the college including knowingly passing a worthless check or money order in payment to the college or a college official acting in an official capacity.

6. Arrest. Failure of a student to accurately report an off-campus arrest by law enforcement for any crime (including non-custodial or field arrests) to the AVPSS within 72 hours of release.

7. Other Policies. Violating other published college policies or codes, including residence hall policies.

8. Violation of Law. Violating local, state, or federal laws, even if such conduct is not expressly prohibited in the Student Code of Conduct.

9. Health and Safety. Creation of health or safety hazards such as dangerous pranks, hanging out of or climbing from, on, or in windows, balconies, or roofs.

Resolution Process

Following is a general overview of how the college's conduct resolution processes work; however, not all situations are of the same severity or complexity. Therefore, these procedures are flexible and not the same in every situation, though consistency in similar situations is a priority.

The college's conduct resolution process and applicable timelines begin with notice to a college administrator of an alleged violation of college policies or codes. The DOS (or designee) conducts a preliminary inquiry into the nature of the notice, available evidence, and parties involved. If there is insufficient evidence or reasonable cause to believe the responding student committed a violation, the case will be closed. Otherwise, the student will be sent a notice letter listing the college policies or codes they are alleged to have violated, and providing information on available resolution options.

Resolution options include informal resolution, formal resolution, and student grievance process. In cases of sexual misconduct and discrimination, alleged policy violations will use the process outlined in the Sexual Misconduct and Discrimination Policy, not the conduct resolution process described below. In such cases, associated violations not falling under sexual misconduct and discrimination will follow the process described below. In cases of alleged academic dishonesty, refer to the related section below.

Informal Resolution

Informal resolution is used for lower-level policy or code violations, provided that the responding student accepts responsibility for the alleged prohibited conduct. The DOS is responsible for determining whether informal resolution is appropriate considering the nature and severity of the alleged misconduct and the responding student's prior history of policy or code violations.

The informal resolution process is considered a voluntary, educational resolution to alleged misconduct. Informal resolution results in a written agreement between the college and the responding student. This agreement confirms that the student takes responsibility for the alleged misconduct, and outlines the required actions stipulated by the DOS (or designee). Required actions include items from the conduct sanction list (see related section), with the exceptions of items 9-17. Items 9-17 from the sanction list are considered more severe and are not appropriate for informal resolution.

Because informal resolution is educational in nature, represents an agreement between the responding student and the college, and is reserved for lower-level policy and code violations, the college does not consider informal resolution to be a disciplinary process. As a result, informal resolutions are not considered part of a student's disciplinary or conduct record.

The DOS (or designee) reserves the right to stop the informal resolution process and initiate formal resolution in the following cases:

- The responding student fails to attend a resolution meeting
- The responding student does not accept responsibility for all alleged violations
- The responding student does not wish to participate in the informal resolution process
- The responding student does not agree to the required actions recommended by the DOS (or designee)
- The responding student fails to complete the required actions as stipulated in the informal resolution agreement
- The DOS (or designee) determines that the matter is more appropriately resolved under the formal resolution process

Academic Dishonesty Resolution

Issues of academic dishonesty are treated differently than other alleged code violations due to their academic nature. Instead of being primarily managed by the DOS Office, Academic Affairs is responsible for managing these issues. Instructors who suspect academic dishonesty may address the violation directly with the student. If the result of this resolution is a grade reduction or failing grade on an individual assignment or exam, this resolution will be considered informal and will not be considered part of a student's disciplinary record. If a student disagrees with their instructor's assessment of their academic integrity and wishes to dispute the outcome, students may go through the student grievance process (see related section).

If an instructor believes that an academic dishonesty issue should result in a failing grade for the course, suspension from the program or clinical/fieldwork activities, or dismissal from the program, this outcome must be approved by the instructor's academic dean. In these cases, a written notice to the student must be provided detailing the allegations. The student must be given an opportunity to respond to the allegations and present information and evidence in their defense. The decision of the dean and instructor will be provided to the student in writing, outlining the sanction. This outcome will be considered part of the student's disciplinary record. If a student disagrees with the outcome (their responsibility for the violation, the sanction, or both), students may go through the student grievance process (see related section).

Instructors (and academic deans, if involved in the case) will use an academic dishonesty reporting form to document student academic dishonesty allegations and associated resolutions. The DOS Office will manage these records and will use them to provide Academic Affairs with relevant information regarding a student's history of academic dishonesty violations.

In cases of repeat or very severe academic dishonesty allegations, the student's academic dean may confer with the DOS to determine if the student should go through the formal conduct resolution process (see related section). This process is used when a student's pattern of misconduct (academic and non-academic) is so severe that consideration of college suspension or expulsion is deemed appropriate. In these cases, students will retain all due process and procedural rights outlined in the formal resolution section, and will retain the right to use the student grievance process to appeal a finding of responsibility and/or sanction they wish to dispute.

Formal Resolution

Formal resolution is used in cases of higher-level policy or code violations when the responding student does not accept responsibility for the alleged prohibited conduct, when a matter was not able to be resolved through informal resolution, or when the DOS determines that formal resolution is appropriate.

In cases of formal resolution, the responding student will be sent a notice letter listing the college policies or codes they are alleged to have violated, as well as information on how to schedule a meeting with the DOS (or designee). If the student accepts responsibility for the alleged prohibited conduct, the DOS (or designee) will notify the student of assigned sanctions. If the student disagrees with or wishes to contest their sanctions, they may go through the student grievance process (see related section).

If the student does not accept responsibility for the alleged prohibited conduct, they will be given the opportunity to present evidence in their defense at the formal resolution meeting. The DOS (or designee) will review all available evidence and, using the preponderance of the evidence standard will determine whether it is more likely than not that a student is responsible for violating a college policy or code. The student will be notified in writing of the outcome of the formal resolution meeting, as well of any assigned sanctions (if applicable). If the student wishes to contest the outcome of the formal resolution process (their responsibility for the violation, the sanction, or both), students may go through the student grievance process (see related section).

If a student does not respond to the notice of allegations or does not attend the formal resolution meeting, reasonable attempts will be made to contact the student to schedule an alternative time. If the student fails to respond within three business days, the DOS (or designee) will adjudicate the case in the student's absence, using the preponderance of the evidence standard to review available evidence.

If a student is found responsible for a policy or code violation under the formal resolution process, this will become part of the student's disciplinary or conduct record. If a student is found not responsible for all alleged policy or code violations, this outcome will be documented but will not be considered part of the student's disciplinary or conduct record.

Student Conduct Authority

Authority

The DOS is vested with the authority over student conduct by the president. The DOS oversees and manages the student conduct process or assigns cases to a designee. A designee may act in place of the DOS. The DOS may appoint a formal hearing panel and appeals panel as deemed necessary to efficiently and effectively supervise the student conduct process. The DOS will assume responsibility for the preliminary investigation of an allegation of misconduct to determine if the complaint has merit.

Gatekeeping

The DOS will not forward a complaint for a hearing unless there is reasonable cause to believe a policy or code has been violated. Reasonable cause is credible information to support each element of the offense, even if that information is merely a credible witness or victim's statement. It is important to note that reasonable cause is different from the preponderance of evidence standard, which is the standard used to determine whether a violation has occurred. The DOS will not forward a complaint wholly unsupported by credible information for a hearing.

College as Convener

The college is the convener of every action under this code. Within that action, there are several roles. The responding student is the person alleged to have violated the code. The reporting party may be a student, employee, visitor, or guest and may be present and participate in the process as fully as the responding student participates. Witnesses may offer information about the allegation. The investigators' role is to present the allegations and share evidence the college has obtained about the allegations.

Group Violations

A student group or organization and its officers and membership may be held collectively and individually responsible when code violations committed by the organization or its members (1) take place at an organization-sponsored or co-sponsored event, whether sponsorship is formal or tacit, (2) the violators received the consent or encouragement of the membership or officers, or (3) the violations were known or should have been known by the membership or its officers.

Resolutions for student groups or organizations follow the same student conduct process. Individual determinations as to responsibility will be made and sanctions may be assigned collectively and individually and will be proportionate to the involvement of each individual and the organization.

Amnesty for Victims

The college provides amnesty to victims who may be hesitant to report a code violation because they fear being accused of minor policy violations, such as underage drinking at the time of the incident. In such cases, the college may impose an educational program but no conduct proceedings or conduct record will result.

Interpretation and Revision

The DOS will develop procedural rules for the administration of hearings that are consistent with provisions of the Student Code of Conduct. Material deviation from these rules will be made as necessary and include reasonable advance notice to the parties involved, either by posting online or in written communication. The DOS may vary procedures with notice if the DOS determines that changes to law or regulations require policy or procedural changes to the Student Handbook.

The DOS may make minor modifications to procedures that do not materially jeopardize the fairness owed to any party. Questions of interpretation of the Student Code of Conduct will be referred to the DOS, whose interpretation is final. The college will update the Student Code of Conduct annually under the direction of the DOS.

Parental Notification

The college reserves the right to notify the parents/guardians of dependent students of any conduct situation, particularly those involving alcohol and drug violations. The college may notify parents/guardians of non-dependent students who are under the age of 21 of alcohol or drug violations. Administrators may use parental notification discretionarily when permitted by FERPA or student consent.

Investigation

Investigations may occur as part of an educational conference or a formal hearing. The following are the procedures for an investigation. The DOS will appoint an investigator(s) for allegations of code violations. The investigator(s) will take the following steps, if not already completed by the DOS. For allegations of code violations that meet Title IX standards, the college will follow the Sexual Misconduct and Discrimination Policy process.

1. Initiate necessary remedial actions on behalf of the victim.

2. Determine the identity and contact information of the reporting party, whether that person is the initiator of the complaint, the alleged victim, or a college representative. Complete an intake form.

3. Conduct an immediate preliminary investigation to identify an initial list of policies or codes that may have been violated, review the history of the parties, the nature of the complaint, and the context of the incidents, and look for behavioral patterns.

4. If the victim is reluctant to pursue the complaint, determine whether the college should pursue the complaint and if sufficient independent evidence could support the complaint without the victim's participation. Notify the victim if the college intends to pursue the complaint regardless of the victim's involvement. Inform the victim of his or her rights in the process and the option to become involved if they choose.

5. If indicated by the educational conference and authorized by the DOS, conduct a comprehensive investigation to determine if there is reasonable cause to believe the responding student violated college policy and determine what violations should serve as the basis for the complaint. A comprehensive investigation usually takes between one day and two weeks. If there is insufficient evidence through the investigation to support reasonable cause, the allegations will be closed with no further action.

6. Meet with the reporting party to finalize the party's statement, which the investigator will facilitate.

7. Conduct a thorough, reliable, and impartial investigation by developing a strategic investigation plan, including a witness and evidence lists, intended timeframe, and order of interviews of all witnesses and the responding student, who may be given notice of the interview before or at the time of the interview.

8. Interview relevant witnesses, summarize the information they shared, and have each witness sign the summary to verify its accuracy.

9. Obtain available documentary evidence and information.

10. Obtain available physical evidence.

11. Complete the investigation promptly by analyzing available evidence without unreasonable deviation from the intended timeline.

12. Make a finding based on a preponderance of the evidence (whether a violation is more likely than not).

13. Present the investigation report and findings to the responding student, who may accept the findings, accept the findings in part and reject them in part, or may reject all findings.

14. Share the findings and update the reporting and responding party on the status of the investigation and the outcome.

Sanctions may be issued for attempting to intimidate, bribe, influence witnesses, or otherwise retaliate against college personnel, or people relevant to the proceedings, disrupting a proceeding, filing a complaint in bad faith, giving false evidence or testimony, or attempting to use the judicial system maliciously.

Findings

The following describes how to proceed depending on if the responding student is found responsible and if the responding student accepts or rejects the findings or the sanctions in whole or in part.

1. The Responding Student is Found Not Responsible
The investigation will be closed when the responding student is found not responsible for the alleged violations, which means that upon review of the available evidence, it is more likely than not that the alleged violation did not occur or that evidence did not reach the preponderance threshold. The party bringing the complaint, if any, may request the DOS review the investigation file to possibly reopen the investigation or convene a hearing. The

DOS has sole discretion to reopen an investigation or convene a hearing, which the DOS may grant for only extraordinary cause.

2. The Responding Student Accepts a Finding of Responsible
If the responding student accepts the finding that they violated college policy, the investigator will consult with the DOS and then recommend sanctions for the violation. If the responding student accepts the sanctions, the DOS will implement the sanctions and close the process.
The responding student has three days from the date of acceptance to reject the sanctions. If the responding student does not reject the sanctions after three days, the resolution becomes final. If the responding student rejects the sanctions within that period, the college will convene a hearing on the sanctions only. The findings of the hearing are not subject to appeal.

3. The Responding Student Does Not Accept a Finding of Responsible
If the responding student does not accept the finding that they violated college policy, they may appeal this decision by submitting a student grievance

Conduct Sanctions

One or more of the following sanctions may be imposed for Student Code of Conduct violations.

1. Warning. A written notice that the student has violated college policies or codes and that more severe conduct action will result should the student be involved in other violations while enrolled at the college.

2. Restitution. Compensation for damage caused to the college or any person's property. This could include failing to return a reserved space to the proper condition resulting in a charge for labor costs and expenses. This is not a fine but a repayment for labor costs and the value of property destroyed, damaged, consumed, or stolen.

3. Fines. Reasonable monetary fines are imposed for a violation.

4. Community/College Service Requirements. To complete a specific supervised community or college service.

5. Loss of Privileges. The student will be denied specified privileges for a designated period.

6. Confiscation of Prohibited Property. Items whose presence violates college policy will be confiscated and become the property of the college. Prohibited items may be returned to the owner at the discretion of the DOS or Campus Security.

7. Behavioral Requirement. The requirement to attend or perform activities such as academic counseling or substance abuse assessment, writing a letter of apology, etc.

8. Educational Program. The requirement to attend, present, and participate in a program related to the violation. It may also be a requirement to sponsor or assist with a program for others on campus to aid them in learning about a topic or issue related to the violation.

9. Restriction from Location/Trespass. A no-trespass sanction may be imposed on resident or non-resident students. The parameters of the restriction will be specified and may be specific to buildings or the campus in general.

10. College Housing Probation. A written notice to a student that the college may immediately remove the student from college housing should further violations of housing or college policies occur during a specified period. Regular probationary meetings may be required.

11. College Housing Reassignment. Reassignment of the student to another college housing facility. Housing personnel will decide on the reassignment location and restrictions.

12. Deferred Housing Removal. A written notice to a student that their conduct has been severe enough to warrant housing removal; however, mitigating circumstances are deferring such an outcome. During a period of deferred housing removal, the college will immediately remove the student from college housing should further violations of housing or college policies occur during the specified period. Regular probationary meetings may be required.

13. College Housing Removal. The student must vacate college housing within 24 hours of being notified of the housing removal. The student may request an extension to the deadline to vacate to the DOS. The college may enforce this sanction with a trespass action if necessary. Students must gain permission from the DOS before reapplication for college housing in future academic years.

14. College Probation. The student receives a notice that the student may face suspension or expulsion if further violations occur during a probationary period. Regular probationary meetings may be required.

15. Eligibility Restriction. The student is deemed as being not in good standing with the college for a specified period and may not be allowed to participate in certain activities until the student is back in good standing. The DOS may grant limitations or exceptions to the ability to participate. The terms of this sanction may include the following:

• Ineligibility to hold office in a student organization recognized by the college or hold an elected or appointed office at the college.
• Ineligibility to represent the college to anyone outside the college community in any way including participating in the study abroad program, attending conferences, or representing the college at an official function, event, or intercollegiate competition as a player,

manager, student coach, etc.

16. College Suspension. Separation from the college for a specified period, after which the student is eligible to return. Eligibility may be contingent on the satisfaction of conditions noted at the time of suspension. The student is required to vacate the campus within 24 hours of being notified of the action. The student may submit a request for a deadline extension to the DOS. During the suspension, the student is banned from college property, functions, events, and activities without prior written approval from the DOS. This sanction may be enforced with a trespass action if necessary. This sanction will be noted as a conduct suspension on the student's official academic transcript.

17. College Expulsion. Permanent separation from the college. The student is banned from college property and college-sponsored activities or events. This sanction may be enforced with a trespass action if necessary. This sanction will be noted as a conduct expulsion on the student's official academic transcript. Presidential approval is required for this action.

18. Other Sanctions. With the approval of the DOS, additional or alternate sanctions may be created and designed as deemed appropriate to the offense.

Notification of Outcomes

The outcome of a hearing is part of the responding student's education record and protected from release under the Federal Education Rights and Privacy Act (FERPA), except under certain conditions.

As allowed under FERPA, when a student is accused of a policy violation that would constitute a crime of violence or a forcible or non-forcible sex offense, the college will inform the alleged victim/party bringing the complaint in writing of the hearing results, regardless of whether the college concludes a violation was committed. Such release of information may only include the alleged student's name, the responding student's name, the violation committed, and sanctions assigned (if applicable). In cases of sexual misconduct and other offenses covered by Title IX, the college will release to all parties to the complaint only the rationale for the outcome, findings, and sanctions.

The college may release the above information publicly or to any third party in cases where the college determines through the student conduct process that a student violated a policy that would constitute a crime of violence or a forcible or non-forcible sex offense. FERPA defines crimes of violence to include the following.

- Arson
- Assault offenses (including stalking)
- Burglary
- Criminal homicide—manslaughter by negligence
- Criminal homicide—murder and non-negligent manslaughter
- Destruction/damage/vandalism of property

- Kidnapping/abduction
- Robbery
- Forcible sex offenses
- Non-forcible sex offenses

Failure to Complete Conduct Sanctions

Students, as college community members, must comply with conduct sanctions within the time specified by the DOS. Failure to follow through on conduct sanctions by the date specified, whether by refusal, neglect, or any other reason, may result in additional sanctions or suspension from the college. In such situations, resident students will be required to vacate college housing within 24 hours of being notified by the DOS. The student may submit a request for a deadline extension to the DOS. A suspension will be lifted when the DOS determines that compliance with conduct sanctions has been satisfactorily achieved.

Disciplinary Records

The college maintains conduct records for seven years from the time of their creation except for cases that result in separation (suspension or expulsion, including from housing) and those that fall under Title IX, which are maintained indefinitely.

Student Grievances

Students who believe they have been treated unfairly may seek resolution through the student grievance process except for sexual misconduct or discrimination violations, which should be referred to the Sexual Misconduct and Discrimination Policy. Disagreement with the college's policies, procedures, or regulations, is not grounds for a grievance. Grievances may be addressed through an informal resolution, formal resolution, or grievance hearing.

Consumer protection or state authorization issues for distance education courses must be addressed under the State Authorization Reciprocity Agreement Distance Education Student Procedure found at www.caspercollege.edu/dlc/about/state-authorization. Meetings will be via phone or digital media for grievances involving students who are taking distance education courses only and who do not live in the area.

Informal Resolution

Students are encouraged to first attempt to resolve a grievance before initiating a formal grievance. Issues, concerns, and conflicts can be addressed more quickly by directly working with the people involved. For academic matters, students should first contact their instructor. If a satisfactory resolution is not reached, students may seek a resolution by following the chain of command and contact, in order, the academic chair or program director, then the dean. For all other matters, students should first contact the employee with whom they are having a concern or conflict. In situations of a sensitive nature, students can contact the employee's supervisor. If a satisfactory resolution is not reached, students may seek a resolution by following the chain of

command up to the director level. Students who are uncertain as to whom to contact or how to begin a resolution may seek advice from their academic advisor, or the Vice President for Student Services Office. Students who are not satisfied with any proposed resolutions may pursue a formal resolution.

Formal Resolution

Students who wish to have a formal resolution must submit a completed Student Grievance Form, found at caspercollege.edu/wp-content/uploads/2020/11/cc-student-grievance-form.pdf to the VPAA for grievances involving non-academic matters or the VPSS for grievances involving academic matters. Submitting the form to the non-decision-making VP protects students against bias. Students must submit the form no later than 5 business days after becoming aware of the perceived events that led to the grievance.

After documenting that the grievance form was received, the receiving VP will review the Student Grievance Form and may dismiss the complaint or, if the matter has merit, meet with the involved parties to seek a resolution. If the parties reach a resolution, the VP will issue a written agreement. The receiving VP may choose to designate an academic dean or director-level employee within their division to oversee the grievance on their behalf.

Students who are not satisfied with a proposed resolution may request permission to request a grievance hearing from the VP who initially received the form. That VP will provide the student written authorization to request a grievance hearing or notification that there is no basis for an appeal and the process ends. The VP's decision is final.

Grievance Hearing

Students who wish to have a grievance hearing must submit a hearing request to the VP they have been working with within 5 business days of receiving written permission to request a hearing. The VP will schedule a hearing within 15 business days of receipt of the hearing request and notify all parties of the hearing date, time, and location.

The DOS (or designee) in consultation with the VP who granted permission for a hearing will convene a three-person panel consisting of an academic dean, a full-time instructor, and a full-time administrator. The panel is responsible for hearing testimony, questioning witnesses, reviewing evidence, and making a decision. The VP or DOS will designate a chairperson from the panel, who is responsible for conducting the hearing. The VP or DOS will provide the panel with copies of pertinent information before the hearing.

The grievance panel will conduct the hearing according to the following guidelines.

1. The chairperson will ensure a fair, orderly, and timely hearing.

2. The hearing is closed to anyone who is not part of the proceeding. The panel may hear testimony from witnesses; however, witnesses may not stay for any part of the hearing for which their presence is not required.

3. The hearing will be limited to issues presented in the original Student Grievance Form and issues reasonably necessitated by intervening developments.

4. The grievance panel may request additional evidence.

5. If a party fails to appear at the hearing, the grievance panel may base its decision on the documents provided and on the presentation of the parties present.

6. The DOS (or designee) will record the proceedings, which will serve as the official record. The recording may be audio or another method selected by the DOS. Either party may request a copy of this recording at their own expense from the DOS.

7. Each party may present witnesses and evidence. Each party must provide the other party with a list of witnesses and evidence at least 5 business days before the hearing.

8. Each party may invite one support person, who can be an attorney, to attend the hearing. The support person may not testify or participate in the hearing.

9. The chairperson will administer the following oath to any witnesses: I agree to tell the truth, to the best of my knowledge, in these proceedings.

10. Each party will present its case, beginning with the student. Following presentations by both parties, the panel may ask questions or request additional evidence. Any witness who testifies will be open to questions from the panel. Questions the parties have of the other party, or of witnesses, must be directed first to the chairperson, who will determine relevance and, if relevant, will authorize the question to be answered. Questions must be directed to the chairperson by the parties themselves, as support persons are not allowed to testify or participate in the hearing.

11.When the grievance panel is satisfied it has sufficient information to render an informed decision, the chairperson will adjourn the hearing and the panel will meet in a closed conference. The panel will arrive at its decision by majority vote.

12. The chairperson has 5 business days from the close of the hearing to submit a written decision for review to the VPAA for complaints about academic matters or the VPSS for all other matters. The panel's decision will include pertinent facts, an aggregate vote tally, and the reasons for the panel's decision. All panel members will sign the decision. A dissenting opinion may be included.

13. The chairperson and VP will review the panel's decision. If the VP has no concerns, the chairperson will immediately submit the decision to the DOS (or designee). If the VP

has concerns about the decision or hearing, the VP will send the chairperson a written request that the panel continue their deliberations. Upon further deliberation, the chairperson will provide the VP and the DOS with the panel's final decision within 5 business days of the request to continue deliberations. The panel's final decision is binding.

14. The DOS will provide the written decision to the student within 3 business days of receiving the decision from the chairperson.

15. Once the written decision has been delivered to the student and other parties, the decision is final and binding. Because the student grievance process is designed to be a secondary review of an initial decision after opportunities for informal resolution have proved unfruitful, there is no appeal process for a grievance panel decision.

Degrees Conferred

Casper College grants six types of degrees: associate of arts, associate of science, associate of business, associate of fine arts, associate degree in nursing, and associate of applied science degrees. Certificates are offered in many areas. There are two types of course requirements.

> *General education.* All students seeking the same degree or certificate are required to take these classes in addition to the classes for their major to meet the college's general education outcomes.
>
> *Major requirements.* These are classes required for a major. For example, communication majors are required to take classes in public speaking, interpersonal communication, communication theory, and mass media.

Application for Graduation

Casper College awards degrees and certificates for eligible candidates for graduation at the end of each semester (fall, spring, and summer). A candidate for graduation must file an application for graduation with the Records Office by the published deadline, which is December 1 for December graduation, April 1 for May graduation, and July 16 for August graduation. The form is available at www.caspercollege.edu/offices-services/records. A degree or certificate check and a graduation application must be completed and on file with the records office before the candidate registers for the final semester. The Records Office determines eligibility for graduation.

A commencement ceremony is held at the end of the spring semester for students who were eligible for graduation within the year. Watch for signs posted around campus for deadlines to order your cap and gown, usually around mid-March. Candidates may order announcements through the Jack McCann Campus Store.

Academic Catalog Governing Graduation

Students are expected to fulfill the requirements for graduation stated in the Academic Catalog in effect at the time of their graduation. They may elect to fulfill the requirements for graduation in the Academic Catalog in effect at the time they first enrolled as a degree-seeking student in their program if they have not interrupted that program for more than one year.

Institutional Requirements

To graduate from Casper College a student must:

- Complete a minimum of 60 approved semester credits with a grade point average of 2.0 or higher in those courses counted toward graduation.

- Earn at least 15 of the semester credits applied toward graduation through the completion of Casper College coursework, including at least six hours within the desired major. The vice president for academic affairs may waive this requirement.
- Complete at least one health and wellness activity course. (The associate degree in nursing is exempt from this requirement.) The college will waive this requirement for any student who presents a physician's statement of medical restriction to Enrollment Services. No more than four semester credits in physical activity courses will count toward an associate degree.
- Students who have earned a C or better in a college-level political science or history course that covered the U.S. Constitution may be able to take POLS 1100 Wyoming Government in place of one of the courses used to satisfy the U.S. and Wyoming Constitutions course requirements. Students must receive a C or better in POLS 1100 to satisfy the requirement. Call the Political Science Department at 307-268-2368 to request permission to take POLS 1100 or to schedule an appointment.
- Complete the requirements for one of the six degrees listed in this section,(e.g., A.A., A.S., A.B.A., A.D.N., A.F.A., and A.A.S.).
- If the student is seeking a second associate degree, the student must complete all general and departmental degree requirements and 15-semester credits beyond the study requirements of the first degree.

General Education Philosophy Statement, Outcomes, and Requirements (GERs)

While education within a major field of study prepares each student to achieve success within a chosen vocation, general education provides the cornerstone of understanding in a multitude of areas that prepare students for life and expose them to diverse ideas and ways of thinking. The goal of general education is to provide the knowledge and skills necessary for one to be an educated and contributing member of society. Therefore, as a fundamental part of their education at Casper College, graduates are expected to possess the following core abilities, commonly termed institutional learning outcomes.

Students will be able to

- Demonstrate effective communication
- Apply scientific methods
- Solve problems using critical thinking and creativity
- Demonstrate knowledge of diverse cultures and historical perspectives
- Appraise creative and/or aesthetic activities
- Use the information to conduct research
- Analyze the importance of personal, civic, and social responsibilities
- Use quantitative analytical skills to evaluate and process data

General Education Course Requirements are criteria established by the Faculty Senate to apply when considering if a course should be designated as a general education course. These criteria

include reasoning and inquiry in science, math computation, written communication, oral communication, humanities, social science, fine arts, U.S. and Wyoming government, and health and wellness.

Reasoning and Inquiry in Science (SCI)

(4CR) As a result of completing general education courses in this area, students will be able to comprehend and apply the basic principles of science and scientific inquiry methods. General Education courses that fulfill this requirement ask students to do five (5) of the following:

1. Define discipline-specific central facts, concepts, ethics, and theories.
2. Utilize the principles of the scientific method.
3. Formulate and test ideas through analysis and interpretation of the data.
4. Recognize the proper use of scientific data, principles, and theories to assess the quality of stated conclusions.
5. Use scientific and quantitative logic to examine contemporary problems.
6. Use critical thinking skills to evaluate information and make informed decisions and evaluations.

- ASTR 1050 Survey of Astronomy (4CR)
- BIOL 1000 Introduction to Biology I (4CR)
- BIOL 1010 General Biology I (4CR)
- CHEM 1000 Intro to Chemistry (4CR)
- CHEM 1020 Chemistry I (4CR)
- CHEM 1030 Chemistry II(4CR)
- ENR 1200 Environment (4CR)
- GEOG 1010 Introduction to Physical Geography (4CR)
- GEOL 1070 The Earth: It's Physical Environment (4CR)
- GEOL 1100 Physical Geology (4CR)
- LIFE 1020 Life Science (4CR)
- PHYS 1050 Concepts of Physics (4CR)
- PHYS 1110 General Physics I (4CR)
- PHYS 1310 College Physics I (4CR)
- ZOO 2015 Human Anatomy (4CR)
- ZOO 2025 Human Physiology (4CR)
- FCSC 1141 Principles of Nutrition (3CR) **(elective only)**

Math Computation (MATH)

(3CR) As a result of completing general education courses in this area, students will comprehend and use quantitative concepts and methods to interpret and critically evaluate data and effectively problem-solve in a variety of contexts demanding quantitative literacy. General Education courses that fulfill this requirement ask students to do five (5) of the following:

1. Solve quantitative exercises with mathematical concepts, tools, and methods.

2. Express quantitative information symbolically, graphically, and in written or oral language.
3. Use appropriate strategies/procedures to solve mathematical problems and to interpret, analyze, and critique information.
4. Recognize, evaluate, and use quantitative information, quantitative reasoning, and technology to support a position or line of reasoning.
5. Design and follow a multi-step mathematical process through to a logical conclusion and critically evaluate the reasonableness of the result.
6. Use critical thinking skills to evaluate information and make informed decisions and evaluations.

- BADM 1005 Business Mathematics I (3CR) **(AAS and Certificate ONLY)**
- MATH 1000 Problem Solving (3CR)
- MATH 1105 Data, Probability, and Algebra for Elementary Teachers (3CR)
- MATH 1400 College Algebra (4CR)
- MATH 1405 Trigonometry (3CR)
- MATH 1450 Algebra and Trigonometry (5CR)
- MATH 2200 Calculus I (4CR)
- MATH 2350 Business Calculus (4CR)
- STAT 2000 Statistics and the World (3CR)
- STAT 2050 Fundamentals of Statistics (4CR)
- STAT 2070 Introductory Statistics for Social Science (4CR)

Written Communication (COM1)

(3CR)(6CR for A.A.) As a result of completing general education courses in this area, students will effectively use the written English language with clarity, coherence, and persuasiveness. General Education courses that fulfill this requirement ask students to do five (5) of the following:

1. Read, interpret, and communicate key concepts in writing and rhetoric.
2. Demonstrate proper spelling, grammar, organization, mechanics, and word choice appropriate to the writing task.
3. Conduct research that explores multiple and diverse ideas and perspectives, appropriate to the rhetorical context and document source materials.
4. Use flexible writing process strategies to generate, develop, revise, proofread, and edit texts
5. Use rhetorically appropriate strategies to evaluate, represent, and respond to the ideas and research of others.
6. Use critical thinking skills to evaluate information and make informed decisions and evaluations.

- BADM 1020 Business Communications (3CR) **(AAS and Certificate ONLY)**
- ENGL 1010 English Composition (3CR)
- ENGL 1020 English Comp II (3CR)

- ENGL 2005 Writing in Technology and the Sciences

Oral Communication (COM2)

(3CR) As a result of completing general education courses in this area, students will effectively use the oral English language with clarity, coherence, and persuasiveness. General Education courses that fulfill this requirement ask students to do five (5) of the following:

1. Research, discover, and develop information resources to develop a central message and supporting details.
2. Research, discover, and develop information resources to structure spoken messages to increase knowledge and understanding.
3. Organize content for a particular audience, occasion, and purpose, and use technology as appropriate
4. Monitor and adjust for audience feedback.
5. Listen to effectively and critically evaluate the reasoning, evidence, and communication strategies of self and others.
6. Use critical thinking skills to evaluate information and make informed decisions and evaluations.

- COMM 2010 Public Speaking (3CR)

Humanities (HU)

(3CR) As a result of completing general education courses in this area, students will be able to define and apply knowledge of changing human cultures. General Education courses that fulfill this requirement ask students to do five (5) of the following:

1. Analyze, evaluate, and interpret ideas, theories, texts, objects, and/or events in their cultural context.
2. Assess structural elements (race, gender, religion, class, language, etc.) and how they influence societies, human behavior, and human social interactions.
3. Identify and describe discipline-specific methodologies, approaches, and/or traditions.
4. Examine the role of diversity in human societies and how diversity impacts global change.
5. Demonstrate self-reflection and widened perspectives.
6. Use critical thinking skills to evaluate information and make informed decisions and evaluations.

- ART 2010 Art History I (3CR)
- ART 2020 Art History II (3CR),
- ART 2035 Art History III (3CR)
- ASL 1010 American Sign Language I (4CR)
- DANC 1015 Introduction to Dance (3CR)
- ENGL 2185 Classical Mythology (3CR)

- ENGL 2205 Introduction to Literature (3CR)
- ENGL 2210 English Literature I (3CR)
- ENGL 2220 English Literature II (3CR)
- ENGL 2230 Intro to Shakespeare (3CR)
- ENGL 2310 American Literature I (3CR)
- ENGL 2320 American Literature II (3CR)
- FREN 1010 First Year French I (4CR)
- FREN 1020 First Year French II (4CR)
- GERM 1010 First Year German I (4CR)
- GERM 1020 First Year German II (4CR)
- GWST 1080 Intro to Gender and Women's Studies (3CR)
- HIST 1110 Western Civilization I (3CR)
- HIST 1120 Western Civilization II (3CR)
- HUMN 1030 Environmental Humanities (3CR)
- HUMN 1101 First Year Seminar: {Subject} (3CR)
- INST 2310 Intro to International Relations (3CR)
- MUSC 1426 History of American Popular Music (3CR)
- PHIL 1000 Intro to Philosophy (3CR)
- POLS 2310 Intro to International Relations (3CR)
- RELI 1000 Intro to Religion (3CR)
- RUSS 1010 First Year Russian I (4CR)
- RUSS 1020 First Year Russian II (4CR)
- SOC 1101 Education and the Good Life: FYS (3CR)
- SPAN 1010 First Year Spanish I (4CR)
- SPAN 1020 First Year Spanish II (4CR)
- THEA 1000 Intro to the Theatre (3CR)

Social Science (SSC)

(3CR) As a result of completing general education courses in this area, students will develop a deeper understanding of the relation of self to the world by investigating the influence of social, cultural, economic, and/or political institutions in shaping human thought, value, and behavior. General Education courses that fulfill this requirement ask students to do five (5) of the following:

1. Use Social Science concepts, theories, and vocabulary to examine social phenomena and human activity.
2. Examine the role of individuals and institutions within the context of society.
3. Examine the ways individuals, groups, and institutions shape and are shaped by social phenomena past and present.
4. Evaluate the ways in which social phenomena inform individual, group, civic, and/or global decision-making.
5. Examine intersections of social, cultural, economic, and political institutions.
6. Use critical thinking skills to evaluate information and make informed decisions and evaluations.

- AGEC 1010 Agricultural Macroeconomics (3CR)
- AGEC 1020 Agricultural Microeconomics (3CR)
- ANTH 1200 Introduction to Cultural Anthropology (3CR)
- COMM 1000 Intro to Mass Media (3CR)
- CRMJ 2120 Intro to Criminal Justice (3CR)
- ECON 1010 Macroeconomics (3CR)
- ECON 1020 Microeconomics (3CR)
- GEOG 1000 World Regional Geography (3CR)
- PSYC 1000 General Psychology (3CR)
- SOC 1000 Sociological Principles (3CR)

Fine Arts (FA)

(3CR) As a result of completing general education courses in this area, students will develop a deeper appreciation and understanding of the Fine Arts through the study of literary, performing, and/or visual arts, employing fundamental discipline-specific principles, terminology, skills, technology, and methods. General Education courses that fulfill this requirement ask students to do five (5) of the following:

1. Recognize and describe artistic works within problems and patterns of human experience.
2. Demonstrate knowledge of the value of fine arts in culture and society.
3. Engage in a creative process through experimentation, reflection, tolerance for failure, and revision.
4. Distinguish and apply methodologies, approaches, or traditions specific to the discipline.
5. Practice and assess the creative process and expression through participation as viewers or creators of artistic objects, texts, or performances.
6. Utilize critical skills to evaluate information and make informed decisions and evaluations.

- ART 1000 General Studio Art (3CR)
- ART 1005 Drawing I (3CR)
- ART 1010 Intro to Art (3CR)
- ART 1115 Digital Media (3CR)
- ART 1120 Foundation: Three-Dimensional (3CR)
- ART 1150 Black and White Film Photography I (3CR)
- ART 2090 Printmaking (3CR)
- ART 2145 Digital Photography I (3CR)
- ART 2210 Painting I (3CR)
- ART 2310 Sculpture I (3CR)
- ART 2350 Metalsmithing I (3CR)
- ART 2410 Ceramics (3CR)
- DANC 1410 Beginning Ballet I (1CR)
- DANC 1450 Beginning Tap Dance I (1CR)
- DANC 1460 Beginning Modern Dance I (1CR)

- DANC 1480 Beginning Jazz Dance I (1CR)
- ENGL 2050 Creative Writing: Fiction (3CR)
- ENGL 2060 Creative Writing: Nonfiction (3CR)
- ENGL 2080 Creative Writing: Poetry (3CR)
- MUSC 1000 Intro to Music (3CR)
- MUSC 1008 Intro to Film and Video Game Music (3CR)
- MUSC 1378 College Band (1CR)
- MUSC 1390 Jazz Ensemble (1CR)
- MUSC 1400 Collegiate Chorale (1CR)
- MUSC 1425 History of Rock Music (3CR)
- MUSC 1440 Chamber Orchestra (1CR)
- THEA 1100 Beginning Acting (3CR)

US and Wyoming Constitutions (CNST)

(3CR) This course requirement helps students better understand the organization and nature of the American national government and Wyoming state government systems, their constitutional development, and how active citizen participation is vital to the health of our state and nation. These courses meet the statutory requirement for instruction in the Constitutions of the United States and Wyoming. General education courses that fulfill this requirement will need to meet three out of three (3) of the outcomes and the required critical thinking outcome.

1. Examine the formal and informal principles, processes, and structures of the U.S. and Wyoming constitutions and political systems.
2. Analyze the historical development and cultural context of these constitutions and political systems.
3. Evaluate the roles of responsible citizens and the institutions by which they are governed.
4. Required: How will students use critical thinking skills to evaluate information and make informed decisions and evaluations in this course?

    - HIST 1211 United States to 1865 (3CR)
    - HIST 1221 United States from 1865 (3CR)
    - HIST 1251 Wyoming History (3CR)
    - POLS 1000 American and WYO Government (3CR)

Health and Wellness (HW)

(1CR) Students will attain skills and knowledge that directly contribute to improving their physical and/ or mental health and wellness. Upon completion, students will be able to apply their skills and knowledge to improve their health and wellness for a lifetime. General Education courses that fulfill this requirement ask students to do five (5) of the following:

1. Demonstrate competency in motor skills and movement patterns.
2. Apply knowledge of concepts, principles, strategies, and tactics to movement and performance.

3. Demonstrate knowledge and skills to achieve and maintain physical fitness and physical activity.
4. Demonstrate responsible personal and social behavior that respects self and others.
5. Recognize the value of physical activity for health, enjoyment, challenge, self-expression, and social interaction.
6. Use critical thinking skills to evaluate information and make informed decisions and evaluations.

- PEAC 1001 Health and Wellness (1CR)
- PEAC 1015 Beginning Scuba (1CR)
- PEAC 1020 Fitness Training (1CR)
- PEAC 1041 Basic Self-Defense (1CR)
- PEAC 1044 Beginning Tae Kwon Do (1CR)
- PEAC 1050 Beginning Tennis (1CR)
- PEAC 1253 Beginning Bowling (1CR)
- PEAC 1255 Beginning Golf (1CR)
- PEAC 1266 Trapshooting (1CR)
- PEAC 1270 Pickleball (1CR)
- PEAC 1271 Weight Loss Conditioning (1CR)
- PEAC 1281 Fly Fishing (1CR)
- PEAC 1294 Beginning Yoga (1CR)
- PEAC 1460 Beginning Modern Dance I (1CR)
- PEAC 1680 Extreme Fitness (1CR)
- PEAC 1681 Extreme Fitness II (1CR)
- PEAC 2001 Physical Fitness and Wellness (1CR)
- PEAC 2007 Express Fitness (1CR)
- PEAC 2084 Outdoor Living Skills (1CR)
- PEAT 1000 Varsity I (1CR)
- PEAT 2025 Rodeo (1CR)

Associate of Arts, Associate of Business, and Associate of Science Degree Requirements

Students seeking an associate of arts, an associate of business, or an associate of science degree must complete a minimum of 29 credits in general education with a "C" or better at the 1000 level or higher, including at least one credit in health and wellness activity. Students must fulfill the minimum course requirements of the general education categories as listed below. Degree programs may advise students to take particular courses to fulfill General Education Requirements, and in some cases, a single course may satisfy both General Education and Degree Requirements. This could happen if the course is a prerequisite for the degree, fulfills a program requirement, or extends a student's enrollment at Casper College. However, it's important to note that even if a course fulfills multiple requirements, it will not result in the earning of double credit hours. These degrees are considered transfer degrees.

Students pursuing an AS degree are required to earn 3 elective credits from one of the general education categories (1-8 below). Three-credit classes that do not have a laboratory component, but meet the outcomes of Reasoning and Inquiry in Science, shall count as elective science credits.

Category	Credit
1. Reasoning and Inquiry in Science (laboratory science)	4
2. Math Computation	3
3. Written Communication	3 (AS) 6 (AA)
4. Oral Communication	3
5. Humanities	3
6. Fine Arts	3
7. Social Science	3
8. US and Wyoming Constitution	3
9. General Education Electives (to be chosen from areas above) (AS Degree Only)	3
10. Health and Wellness	1
TOTAL GENERAL EDUCATION (All credit hours must be "C" or better and 1000 level or higher)	**29**
TOTAL MAJOR REQUIREMENTS	**31**
Approved by the academic department	
TOTAL MINIMUM DEGREE CREDITS	**60**

Associate of Fine Arts and Associate of Applied Science Degree Requirements

Students seeking the associate of fine arts or associate of applied science degree must complete a minimum of 17 credits in general education, including a minimum of one credit in health and wellness activity. Students must fulfill the minimum course requirements of the general education categories as listed below. Degree programs may advise students to take particular courses to fulfill General Education Requirements, and in some cases, a single course may satisfy both General Education and Degree Requirements. This could happen if the course is a prerequisite for the degree, fulfills a program requirement, or extends a student's enrollment at Casper College. However, it's important to note that even if a course fulfills multiple requirements, it will not result in the earning of double credit hours. The These degrees are considered non-transfer degrees.

Category	Credit
1. Reasoning and Inquiry (laboratory science) or Math Computation	3-4
2. Written Communication or Oral Communication	3
3. Humanities, Social Science, Fine Arts	3
4. U.S. and Wyoming Constitution	3
5. General Education Electives. (To be chosen from the areas above)	3-4
6. Health and Wellness	1
TOTAL GENERAL EDUCATION (All credit hours must be 1000 level or higher)	**17**
TOTAL MAJOR REQUIREMENTS	**43**
Approved by the academic department	
TOTAL MINIMUM DEGREE CREDITS	**60**

Associate Degree in Nursing

Students seeking an associate degree in nursing must complete a minimum of 24 credits in general education at the 1000 level or higher, including one course in the U.S. and Wyoming Constitutions. Students must fulfill the minimum course requirements of categories as listed below. Courses can be taken from within or outside the student's major field of study.
This degree is considered a transfer degree.

Category	Credit
1. Reasoning and Inquiry in Science (laboratory science) (ZOO 2015 and ZOO 2025)	8
2. Math Computation (MATH 1400)	4
3. Written Communication or Oral Communication	6
4. Social Science (PSYC 1000)	3
5. U.S. and Wyoming Constitution	3

TOTAL GENERAL EDUCATION (All credit hours must be "C" or better and 1000 level or higher)	**24**
TOTAL MAJOR REQUIREMENTS	**44**
Approved by the academic department	
TOTAL MINIMUM DEGREE CREDITS	**68**

Certificate of Completion

Certificates derive from and are an integral part of our degree programs. To qualify for a certificate of completion, a student must be enrolled as a degree-seeking student and complete one of the certificate programs listed under the various department curricula with a grade point average of 2.0 or better.

CNST 0000 US and Wyoming Constitutions *(3CR)* General education courses that fulfill this requirement will need to meet three (3) out of three of the outcomes and the required critical thinking outcome.

- Examine the formal and informal principles, processes, and structures of the U.S. and Wyoming constitutions and political systems.
- Analyze the historical development and cultural context of these constitutions and political systems.
- Evaluate the roles of responsible citizens and the institutions by which they are governed.
- Required: How will students use critical thinking skills to evaluate information and make informed decisions and evaluations in this course?

HIST 1211 United States to 1865 (3CR), HIST 1221 United States from 1865 (3CR), HIST 1251 Wyoming History (3CR), POLS 1000 American and WYO Government (3CR)

COM1 0000 Written Communication

(3CR)(6CR for AA) As a result of completing general education courses in this area, students will effectively use the written English language with clarity, coherence, and persuasiveness. General Education courses that fulfill this requirement ask students to do five (5) of the following:

- Read, interpret, and communicate key concepts in writing and rhetoric.
- Demonstrate proper spelling, grammar, organization, mechanics, and word choice appropriate to the writing task.
- Conduct research that explores multiple and diverse ideas and perspectives, appropriate to the rhetorical context and document source materials.
- Use flexible writing process strategies to generate, develop, revise, proofread, and edit texts
- Use rhetorically appropriate strategies to evaluate, represent, and respond to the ideas and research of others.
- Use critical thinking skills to evaluate information and make informed decisions and evaluations.

BADM 1020 Business Communications **(AAS and Certificate ONLY)** (3CR), ENGL 1010 English Composition (3CR), ENGL 1020 English Comp II (3CR), ENGL 2005 Writing in Technology and the Sciences

COM2 0000 Oral Communication

(3CR) As a result of completing general education courses in this area, students will effectively use the oral English language with clarity, coherence, and persuasiveness. General Education courses that fulfill this requirement ask students to do five (5) of the following:

- Research, discover, and develop information resources to develop a central message and supporting details.
- Research, discover, and develop information resources to structure spoken messages to increase knowledge and understanding.
- Organize content for a particular audience, occasion and purpose, and using technology as appropriate
- Monitor and adjust for audience feedback.
- Listen in order to effectively and critically evaluate the reasoning, evidence, and communication strategies of self and others.
- Use critical thinking skills to evaluate information and make informed decisions and evaluations.

COMM 2010 Public Speaking (3CR)

FA 0000 - Fine Arts *(3CR)* As a result of completing general education courses in this area, students will develop a deeper appreciation and understanding of the Fine Arts through the study of literary, performing, and/or visual arts, employing fundamental discipline-specific principles, terminology, skills, technology, and methods. General Education courses that fulfill this requirement ask students to do five (5) of the following:

- Recognize and describe artistic works within problems and patterns of human experience.
- Demonstrate knowledge of the value of fine arts in culture and society.
- Engage in a creative process through experimentation, reflection, tolerance for failure, and revision.

- Distinguish and apply methodologies, approaches, or traditions specific to the discipline.
- Practice and assess the creative process and expression through participation as viewers or creators of artistic objects, texts, or performances.
- Utilize critical skills to evaluate information and make informed decisions and evaluations.

ART 1000 General Studio Art (3CR), ART 1005 Drawing I (3CR), ART 1010 Intro to Art (3CR), ART 1115 Digital Media, ART 1120 Foundation: Three-Dimensional (3CR), ART 1150 Black and White Film Photography I (3CR), ART 2090 Printmaking (3CR), ART 2210 Painting I (3CR), ART 2146 Digital Photography I (3CR), ART 2310 Sculpture I (3CR), ART 2350 Metalsmithing I (3CR), ART 2410 Ceramics (3CR), DANC 1410 Beginning Ballet I (1CR), DANC 1450 Beginning Tap Dance I (1CR), DANC 1460 Beginning Modern Dance I (1CR), DANC 1480 Beginning Jazz Dance I (1CR), ENGL 2050 Creative Writing: Fiction (3CR), ENGL 2060 Creative Writing: Nonfiction (3CR), ENGL 2080 Creative Writing: Poetry (3CR), MUSC 1000 Intro to Music (3CR), MUSC 1008 Intro to Film and Video Game Music, MUSC 1378 College Band (1CR), MUSC 1390 Jazz Ensemble (1CR), MUSC 1400 Collegiate Chorale (1CR), MUSC 1425 History of Rock Music (3CR), MUSC 1440 Chamber Orchestra (1CR), THEA 1100 Beginning Acting (3CR)

GEL 0000 - General Education Electives

any 1000 or 2000-level course from the general education areas of Reasoning and Inquiry in Science (SCI), Written Communication (COM1), Oral Communication (COM2), Humanities (HU), Social Science (SSC), Fine Arts (FA), US and Wyoming Constitutions (CNST), and Math Computation (MATH).

HU 0000 Humanities *(3CR)*

As a result of completing general education courses in this area, students will be able to define and apply knowledge of changing human cultures. General Education courses that fulfill this requirement ask students to do five (5) of the following:

• Analyze, evaluate, and interpret ideas, theories, texts, objects, and/or events in their cultural context.

• Assess structural elements (race, gender, religion, class, language, etc.) and how they influence societies, human behavior, and human social interactions.

• Identify and describe discipline-specific methodologies, approaches, and/or traditions.

• Examine the role of diversity in human societies and how diversity impacts global change.

• Demonstrate self-reflection and widened perspectives.

• Use critical thinking skills to evaluate information and make informed decisions and evaluations.

ART 2010 Art History I (3CR), ART 2020 Art History II (3CR), ART 2035 Art History III (3CR), ASL 1010 American Sign Language I (4CR), DANC 1015 Introduction to Dance (3CR), ENGL 2185 Classical Mythology (3CR), ENGL 2205 Introduction to Literature (3CR), ENGL 2210 English Literature I (3CR), ENGL 2220 English Literature II (3CR), ENGL 2230 Intro to Shakespeare (3CR), ENGL 2310 American Literature I (3CR), ENGL 2320 American Literature II (3CR), FREN 1010 First Year French 1 (4CR), FREN 1020 First Year French II (4CR), GERM 1010 First Year German I (4CR), GERM 1020 First Year German II (4CR),GWST 1080 Intro to Gender and Women's Studies (3CR), HIST 1110 Western Civilization I (3CR), HIST 1120 Western Civilization II (3CR), HUMN 1030 Environmental Humanities (3CR), HUMN 1101 First Year Seminar (3CR), INST 2310 Intro to International Relations (3CR), MUSC 1400 Collegiate Chorale (1CR), MUSC 1426 History of American Popular Music (3CR), PHIL 1000 Intro to Philosophy (3CR), POLS 2310 Intro to International Relations (3CR), RELI 1000 Intro to Religion (3CR), RUSS 1010 First Year Russian I (4CR), RUSS 1020 First Year Russian (4CR) SOC 1101 Education and the Good Life: FYS (3CR), SPAN 1010 First Year Spanish I (4CR), SPAN 1020 First Year Spanish II (4CR), THEA 1000 Intro to the Theatre (3CR)

HW 0000 Health and Wellness *(1CR)*

General Education courses that fulfill this requirement ask students to do five (5) of the following:

• Demonstrate competency in motor skills and movement patterns.

• Apply knowledge of concepts, principles, strategies, and tactics to movement and performance.

• Demonstrate knowledge and skills to achieve and maintain physical fitness and physical activity.

• Demonstrate responsible personal and social behavior that respects self and others.

• Recognize the value of physical activity for health, enjoyment, challenge, self-expression, and social interaction.

• Use critical thinking skills to evaluate information and make informed decisions and evaluations.

PEAC 1001 Health and Wellness (1CR), PEAC 1015 Beginning Scuba (1CR), PEAC 1020 Fitness Training (1CR), PEAC 1041 Basic Self Defense (1CR), PEAC 1044 Beginning Tae Kwon Do (1CR), PEAC 1050 Beginning Tennis (1CR), PEAC 1253 Beginning Bowling (1CR), PEAC 1255 Beginning Golf (1CR), PEAC 1266 Trapshooting (1CR), PEAC 1270 Pickleball (1CR), PEAC 1271 Weight Loss Conditioning (1CR), PEAC 1281 Fly Fishing (1CR), PEAC 1294 Beginning Yoga (1CR), PEAC 1460 Beginning Modern Dance I (1CR), PEAC 1680 Extreme Fitness (1CR), PEAC 1681 Extreme Fitness II (1CR), PEAC 2001 Physical Fitness and Wellness (1CR), PEAC 2007 Express Fitness (1CR), PEAC 2084 Outdoor Living Skills (1CR), PEAT 1000 Varsity I (1CR), PEAT 2025 Rodeo (1CR)

MATH 0000 Math Computation *(3CR)* As a result of completing general education courses in this area, students will comprehend and use quantitative concepts and methods to interpret and critically evaluate data and effectively problem-solve in a variety of contexts demanding quantitative literacy. General Education courses that fulfill this requirement ask students to do five (5) of the following:

• Solve quantitative exercises with mathematical concepts, tools, and methods.

• Express quantitative information symbolically, graphically, and in written or oral language.

• Use appropriate strategies/procedures to solve mathematical problems and to interpret, analyze and critique information.

• Recognize, evaluate, and use quantitative information, quantitative reasoning, and technology to support a position or line of reasoning.

• Design and follow a multi-step mathematical process through to a logical conclusion and critically evaluate the reasonableness of the result.

• Use critical thinking skills to evaluate information and make informed decisions and evaluations.

BADM 1005 Business Mathematics I (3CR) **(AAS and Certificate ONLY),** MATH 1000 Problem Solving (3CR), MATH 1105 Data, Probability, and Algebra for Elementary Teachers (3CR), MATH 1400 College Algebra (4CR), MATH 1405 Trigonometry (3CR), MATH 1450 Algebra and Trigonometry (5CR), MATH 2200 Calculus I (4CR), MATH 2350 Business Calculus (4CR), STAT 2000 Statistics and the World (3CR), STAT 2050 Fundamentals of Statistics (4CR), STAT 2070 Introductory Statistics for Social Science (4CR)

PEL 0000 - Program Electives Courses used to satisfy the program electives must be selected from within your program or the selected departments, courses, or the electives list below.

SCI 0000 - Reason and Inquiry in Science *(4CR)* As a result of completing general education courses in this area, students will be able to comprehend and apply the basic principles of science and scientific inquiry methods. General Education courses that fulfill this requirement ask students to do five (5) of the following:

• Define discipline-specific central facts, concepts, ethics, and theories.

• Utilize the principles of the scientific method.

• Formulate and test ideas through analysis and interpretation of the data.

• Recognize the proper use of scientific data, principles, and theories to assess the quality of stated conclusions.

• Use scientific and quantitative logic to examine contemporary problems.

• Use critical thinking skills to evaluate information and make informed decisions and evaluations.

ASTR 1050 Survey of Astronomy (4CR), BIOL 1000 Introduction to Biology I (4CR), BIOL 1010 General Biology I (4CR), CHEM 1000 Intro to Chemistry (4CR), CHEM 1020 Chemistry I (4CR), CHEM 1030 Chemistry II (4CR), ENR 1200 Environment (4CR), GEOG 1010 Introduction to Physical Geography (4CR), GEOL 1070 The Earth: It's Physical Environment (4CR), GEOL 1100 Physical Geology (4CR), LIFE 1020 Life Science (4CR), PHYS 1050 Concepts of Physics (4CR), PHYS 1110 General Physics I (4CR), PHYS 1310 College Physics I (4CR), ZOO 2025 Human Physiology (4CR), ZOO 2015 Human Anatomy (4CR)

FCSC 1141 Principles of Nutrition (3CR) **(Can be used for an elective)**

SSC 0000 - Social Science *(3L)(3CR)* As a result of completing general education courses in this area, students will develop a deeper understanding of the relation of self to the world by investigating the influence of social, cultural, economic, and/or political institutions in shaping human thought, value, and behavior. General Education courses that fulfill this requirement ask students to do five (5) of the following:

- Use Social Science concepts, theories, and vocabulary to examine social phenomena and human activity.
- Examine the role of individuals and institutions within the context of society.
- Examine the ways individuals, groups, and institutions shape and are shaped by social phenomena past and present.
- Evaluate the ways in which social phenomena inform individual, group, civic, and/or global decision-making.
- Examine intersections of social, cultural, economic, and political institutions.
- Use critical thinking skills to evaluate information and make informed decisions and evaluations.

AGEC 1010 Agricultural Macroeconomics (3CR), AGEC 1020 Agricultural Microeconomics (3CR), ANTH 1200 Introduction to Cultural Anthropology (3CR), COMM 1000 Intro to Mass Media (3CR), CRMJ 1001 Intro to Criminal Justice (3CR), ECON 1010 Macroeconomics (3CR), ECON 1020 Microeconomics (3CR), GEOG 1000 World Regional Geography (3CR), PSYC 1000 General Psychology (3CR), SOC 1000 Sociological Principles (3CR)

WL 0000 World Language *(4L)(4CR)* Courses used to satisfy the world language requirement can be selected from the following prefixes: ASL, FREN, RUSS, SPAN and complete in order by semester 1010 First Year I, 1020 First year II, 2030 Second Year I, 2040 Second Year II.

A.A. = Associate of Arts
A.B. = Associate of Business
A.S. = Associate of Science
A.D.N. = Associate Degree in Nursing
A.A.S. = Associate of Applied Science
A.F.A. = Associates of Fine Arts
Certification

Accounting & Bookkeeping, A.A.S.

Freshman Year

Fall Semester (16 credits)

- ACCT 2010 - Principles of Accounting I *(4CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)* (or higher)
  or
- BADM 1005 - Business Mathematics I (MATH) *(3CR)*
- BADM 1020 - Business Communications (COM1) *(3CR)*
- CMAP 1765 - Spreadsheet Applications *(3CR)*
  or
- CMAP 1750 - Excel Basics *(1CR)*
  and
- CMAP 1755 - Spreadsheet Applications II *(1CR)*
  and
- CMAP 1760 - Spreadsheet Applications III *(1CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*

Spring Semester (16 credits)

- ACCT 2020 - Principles of Accounting II *(4CR)*
  or
- ACCT 2510 - Accounting for Bookkeepers *(4CR)*
- ACCT 2460 - Payroll Accounting *(3CR)*
- CMAP 1200 - Computer Information Systems *(3CR)*
- ECON 1020 - Microeconomics (SSC) *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*

Sophomore Year

Fall Semester (16 credits)

- ACCT 2110 - QuickBooks Accounting *(3CR)*
- ACCT 2230 - Intermediate Accounting I *(4CR)* (Fall only)
- BADM 2010 - Legal Environment of Business
- ECON 1010 - Macroeconomics (SSC) *(3CR)*
- IMGT 2400 - Introduction to Information Management *(3CR)*

Spring Semester (14 credits)

- ACCT 2115 - Advanced QuickBooks *(3CR)*
- ACCT 2800 - Certified Bookkeeper Exam Review *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- IMGT 2410 - Data Analytics *(1CR)*
- PEL 0000 - Program Electives (6CR)

Select 2 of the following business electives

- FIN 1000 - Personal Finance *(3CR)*
- MGT 2100 - Principles of Management *(3CR)*
- MKT 2100 - Principles of Marketing *(3CR)*

Total Program Credits (62 Credits)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Addiction Studies Certificate

First Semester (12 Credits)

- ADDN 1020 - Foundations of Substance Use Disorders Counseling I *(3CR)*
- ADDN 2005 - Group Process *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- PSYC 2155 - Motivational Interviewing *(3CR)*

Second Semester (15 Credits)

- ADDN 2010 - Addictions Assessment *(3CR)*
- ADDN 2100 - Foundations of Substance Use Disorder Counseling II *(3CR)*
- PSYC 2050 - Introductory Counseling/Clinical Theories *(3CR)*
- PSYC 2080 - Biological Psychology *(3CR)*
- PSYC 2210 - Drugs and Behavior *(3CR)*

Third Semester (15 Credits)

- ADDN 2015 - Ethics and Professional Issues *(3CR)*
- ADDN 2470 - Addiction Practicum *(3CR)*
- PSYC 2340 - Psychopathology *(3CR)*
- ADDN 1050 - Crime and Drugs *(3CR)*
- ADDN 1520 - Anger, Addiction and Trauma *(3CR)*

Total Program Credits (41 Credits)

Note:

The certificate program is only available to students who have previously earned a degree in another major area.
The normal length of this program is nine months.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Addiction Studies, A.S.

Freshman Year

Fall Semester (16 Credits)

- ADDN 1020 - Foundations of Substance Use Disorders Counseling I *(3CR)*
- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- GEL 0000 - General Education Electives (3CR) Choose from the following: ECON 1010, SOC 1000, STAT 2050, STAT 2070
- PSYC 1000 - General Psychology (SSC) *(3CR)*
  or
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

Spring Semester (15 - 16 Credits)

- ADDN 2100 - Foundations of Substance Use Disorder Counseling II *(3CR)*
- ADDN 2155 - Motivational Interviewing *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*

Sophomore Year

Fall Semester (15 Credits)

- ADDN 2005 - Group Process *(3CR)*
- ADDN 2010 - Addictions Assessment *(3CR)*
- PSYC 2050 - Introductory Counseling/Clinical Theories *(3CR)*
- PSYC 2080 - Biological Psychology *(3CR)*
- PSYC 2210 - Drugs and Behavior *(3CR)*

Spring Semester (16 Credits)

- ADDN 2015 - Ethics and Professional Issues *(3CR)*
- ADDN 2470 - Addiction Practicum *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PSYC 2340 - Psychopathology *(3CR)*
- RELI 1000 - Intro to Religion (HU) *(3CR)*
  or
- GWST 1080 - Introduction to Gender and Women's Studies (HU) *(3CR)*

Total Program Credits (62 Credits)

*Social Work Concentration (13 Credits)

In addition to the above curriculum, these courses are required.

- ECON 1010 - Macroeconomics (SSC) *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
  or (whatever course not taken above is required)
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- SOWK 2000 - Intro to Social Work *(3CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science, and Associate Degree in Nursing.

Agribusiness, A.A.S.

Freshman Year

Fall Semester (15 Credits)

- AGEC 1010 - Agricultural Macroeconomics (SSC) *(3CR)*
- AGRI 1010 - Computer Technology in Agriculture *(2CR)*
- ANSC 1010 - Intro to Animal Science *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COMM 2010 - Public Speaking (COM2) *(3CR)*

Spring Semester (14-15 Credits)

- AECL 1000 - Agroecology *(4CR)*
  or
- SOIL 2010 - Introduction to Soil Science *(4CR)*
- AGEC 1020 - Agricultural Microeconomics (SSC) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 0000 - Math Computation *(3CR)*
  or
- SCI 0000 - Reason and Inquiry in Science *(4CR)* (3CR)
- PEL 0000 - Program Electives (3CR)

Sophomore Year

Fall Semester (16-17 credits)

- ACCT 1005 - Practical Accounting *(4CR)*
  or
- ACCT 2010 - Principles of Accounting I *(4CR)*
- AGEC 2010 - Farm-Ranch Business Records *(3CR)*
- AGRI 1020 - GPS and GIS in Agriculture *(2CR)*
  or
- BADM 2030 - Business Ethics *(3CR)*
  or
- MKT 2000 - Introduction to Digital Marketing *(3CR)*
- PEL 0000 - Program Electives (7CR)

Spring Semester (14 Credits)

- AGEC 2020 - Farm-Ranch Business Management *(4CR)*
- AGEC 2300 - Agricultural Marketing *(3CR)*
- PEL 0000 - Program Electives (7CR)

Program Electives

- ACCT 2010 - Principles of Accounting I *(4CR)*
- ACCT 2020 - Principles of Accounting II *(4CR)*
- COMM 1030 - Interpersonal Communication *(3CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*

Choose from any course(s) with the following prefixes:

- AECL, AGRI, AGTK, ANSC, CROP, FDSC, REWM, SOIL, BADM, MGT, MKT

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Agribusiness, A.S.

Freshman Year

Fall Semester (16 Credits)

- AGEC 1010 - Agricultural Macroeconomics (SSC) *(3CR)*
- AGRI 1010 - Computer Technology in Agriculture *(2CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)* (or higher)
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
  Must be a Life Science with a lab

Spring Semester (13 Credits)

- AGEC 1020 - Agricultural Microeconomics (SSC) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
  or one course listed below
- ASTR 1050 - Survey of Astronomy (SCI) *(4CR)*
- CHEM 1000 - Intro to Chemistry *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- CHEM 1030 - General Chemistry II *(4CR)*
- GEOG 1010 - Introduction to Physical Geography (SCI) *(4CR)*
- GEOL 1070 - The Earth: Its Physical Environment (SCI) *(4CR)*
- GEOL 1100 - Physical Geology (SCI) *(4CR)*
- MATH 2350 - Business Calculus (MATH) *(4CR)*
- PHYS 1050 - Concepts of Physics (SCI) *(4CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*
- PHYS 1310 - College Physics I (SCI) *(4CR)*

Sophomore Year

Fall Semester (16 Credits)

- ACCT 2010 - Principles of Accounting I *(4CR)*
- AGEC 2010 - Farm-Ranch Business Records *(3CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives (5CR)

Spring Semester (15 Credits)

- AGEC 2020 - Farm-Ranch Business Management *(4CR)*
- AGEC 2300 - Agricultural Marketing *(3CR)*
- HU 0000 - Humanities *(3CR)*
- PEL 0000 - Program Electives (5CR)

Program Electives:

- ACCT 2020 - Principles of Accounting II *(4CR)*
- AECL 1000 - Agroecology *(4CR)*
- AGRI 1020 - GPS and GIS in Agriculture *(2CR)*
- AGRI 1101 - Freshman Experience *(2CR)*
- AGRI 1385 - Agriculture Leadership *(2CR)*
- AGTK 1570 - Horseshoeing *(2CR)*
- AGTK 1590 - Packing and Outfitting *(2CR)*
- ANSC 1010 - Intro to Animal Science *(4CR)*
- ANSC 1020 - Intro to Animal Science II *(3CR)*
- ANSC 1030 - Equine Management *(3CR)*
- ANSC 1200 - Livestock Fitting and Showing *(2CR)*
- ANSC 1210 - Livestock Judging I

Agricultural Communications, A.S.

Freshman Year

Fall Semester (17 Credits)

- ANSC 1010 - Intro to Animal Science *(4CR)*
  or
- AECL 1000 - Agroecology *(4CR)*
  (Offered spring only)
- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 0000 - Math Computation *(3CR)*

Math 1400 is recommended but MATH 1000 counts at UW

Spring Semester (14 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- COMM 1000 - Intro to Mass Media (SSC) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
  Must be a Physical Science with a lab

Sophomore Year

Fall Semester (15 Credits)

- AGEC 1010 - Agricultural Macroeconomics (SSC) *(3CR)*
- COMM 1040 - Intro to Communication Theory *(3CR)*
- COMM 2100 - Media Writing *(3CR)*
- COMM 2200 - Survey of Media Production *(3CR)*
- PEL 0000 - Program Electives (3CR)

Spring Semester (14 Credits)

- COMM 2320 - Intro to Social Media *(3CR)*
- HU 0000 - Humanities *(3CR)*
- PEL 0000 - Program Electives (8CR)
  Recommend COMM 2310 and AGEC 2300

Program Electives

- AGEC 1020 - Agricultural Microeconomics (SSC) *(3CR)*
- AGEC 2300 - Agricultural Marketing *(3CR)*
- AGRI 1020 - GPS and GIS in Agriculture *(2CR)*
- AGRI 1101 - Freshman Experience *(2CR)*
- AGRI 1385 - Agriculture Leadership *(2CR)*
- AGRI 2475 - Independent Study in Agriculture *(1-3CR) (Max. 3)*
- ANSC 1030 - Equine Management *(3CR)*
- ANSC 1100 - Artificial Insemination *(1CR)*
- ANSC 1150 - Animal Diseases *(2CR)*
- ANSC 1200 - Livestock Fitting and Showing *(2CR)*
- ANSC 1210 - Livestock Judging I *(3CR)*
- ANSC 1220 - Livestock Judging II (Advanced) *(3CR)*
- ANSC 2020 - Feeds and Feeding *(4CR)*
- ANSC 2130 - Swine Production *(3CR)*
- ANSC 2230 - Livestock Judging III *(2CR)*
- COMM 2090 - Intro to Persuasion *(3CR)*
- COMM 2200 - Survey of Media Production *(3CR)*
- COMM 2310 - Public Relations *(3CR)*
- FDSC 2100 - Principles of Meat Science *(3CR)*
- REWM 2000 - Principles of Range Management *(3CR)*
- SOIL 2010 - Introduction to Soil Science *(4CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of

Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Agriculture, A.S.

Freshman Year

Fall Semester (16 Credits)

- ANSC 1010 - Intro to Animal Science *(4CR)*
  or
- AECL 1000 - Agroecology *(4CR)*
  [Offered Spring Semester Only]
- AGRI 1010 - Computer Technology in Agriculture *(2CR)*
- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
  (MATH 1400 Highly Recommended, see your advisor)

Spring Semester (16 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- PEL 0000 - Program Electives (6CR)
  Choose an additional lab science course from the list below. (4CR)
- ASTR 1050 - Survey of Astronomy (SCI) *(4CR)*
- CHEM 1000 - Intro to Chemistry *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- CHEM 1030 - General Chemistry II *(4CR)*
- GEOG 1010 - Introduction to Physical Geography (SCI) *(4CR)*
- GEOL 1070 - The Earth: Its Physical Environment (SCI) *(4CR)*
- GEOL 1100 - Physical Geology (SCI) *(4CR)*
- PHYS 1050 - Concepts of Physics (SCI) *(4CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*
- PHYS 1310 - College Physics I (SCI) *(4CR)*

Sophomore Year

Fall Semester (15 credits)

- AGEC 1010 - Agricultural Macroeconomics (SSC) *(3CR)*
  or
- AGEC 1020 - Agricultural Microeconomics (SSC) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- PEL 0000 - Program Electives (6CR)

Spring Semester (13 Credits)

- AGEC 2020 - Farm-Ranch Business Management *(4CR)*
  or
- ANSC 2020 - Feeds and Feeding *(4CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives (8CR)

Program Electives

- AGEC 2010 - Farm-Ranch Business Records *(3CR)*
- AGEC 2300 - Agricultural Marketing *(3CR)*
- AGRI 1020 - GPS and GIS in Agriculture *(2CR)*
- AGRI 1101 - Freshman Experience *(2CR)*
- AGRI 1385 - Agriculture Leadership *(2CR)*
- AGTK 1570 - Horseshoeing *(2CR)*
- AGTK 1580 - Intro to Outdoor Recreation: Guide Outfitting *(3CR)*
- AGTK 1590 - Packing and Outfitting *(2CR)*
- ANSC 1020 - Intro to Animal Science II *(3CR)*
- ANSC 1030 - Equine Management *(3CR)*
- ANSC 1100 - Artificial Insemination *(1CR)*
- ANSC 1160 - Issues in Agriculture *(3CR)*
- ANSC 1200 - Livestock Fitting and Showing *(2CR)*
- ANSC 1210 - Livestock Judging I *(3CR)*
- ANSC 1220 - Livestock Judging II (Advanced) *(3CR)*
- ANSC 2020 - Feeds and Feeding *(4CR)*
- ANSC 2110 - Beef Production *(3CR)*
- ANSC 2120 - Sheep Production *(3CR)*
- ANSC 2130 - Swine Production *(3CR)*

- ANSC 2230 - Livestock Judging III *(2CR)*
- BIOL 2022 - Animal Biology *(4CR)*
- BIOL 2023 - Plant and Fungal Biology *(4CR)*
- COMM 1030 - Interpersonal Communication *(3CR)*
- EDEX 2484 - Intro to Special Education *(3CR)*
- EDFD 2020 - Foundations of Education *(3CR)*
- EDFD 2100 - Educational Psychology *(3CR)*
- FDSC 2040 - Principles of Meat Animal Evaluation *(3CR)*
- FDSC 2100 - Principles of Meat Science *(3CR)*
- ITEC 2360 - Teaching and Learning with Educational Technology *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- PSYC 2300 - Psychology of Child Development *(3CR)*
- REWM 2000 - Principles of Range Management *(3CR)*
- SOIL 2010 - Introduction to Soil Science *(4CR)*
- AECL 1000 - Agroecology *(4CR)*
- MKT 2000 - Introduction to Digital Marketing *(3CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

American Sign Language Studies, A.A.

Freshman Year

Fall Semester (17-18 Credits)

- ASL 1010 - American Sign Language I (HU) *(4CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- SSC 0000 - Social Science *(3CR)*

Spring Semester (14 Credits)

- ASL 1020 - American Sign Language II *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Sophomore Year

Fall Semester (16 Credits)

- ANTH 1200 - Intro to Cultural Anthropology (SSC) *(3CR)*
  or
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- ASL 2030 - American Sign Language III *(4CR)*
- COMM 1030 - Interpersonal Communication *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives
  Complete 3CR from THEA 1100, Communications, or Gender and Women's Studies.

Spring Semester (13 Credits)

- ASL 2040 - American Sign Language IV *(4CR)*
- HU 0000 - Humanities *(3CR)*
- PEL 0000 - Program Electives (6CR)(Select one course from each

approved elective list in Diversity in the World and Diversity in the US)

Approved Program Electives

Diversity in the World (min one course)

- GEOG 1000 - World Regional Geography (SSC) *(3CR)*
- HIST 1110 - Western Civilization I (HU) *(3CR)*
- HIST 1120 - Western Civilization II (HU) *(3CR)*
- HIST 2115 - Twentieth Century Europe *(3CR)*
- INST 2350 - Introduction to Global Studies *(3CR)*
- POLS 1200 - Non-Western Political Cultures *(3CR)*
- POLS 2200 - Politics of Europe *(3CR)*
- POLS 2290 - Governments and Politics of Latin America *(3CR)*
- POLS 2310 - Intro to International Relations (HU) *(3CR)*
- POLS 2460 - Intro to Political Philosophy *(3CR)*
- RELI 1000 - Intro to Religion (HU) *(3CR)*
- Any other World Language (4CR)

Diversity in the U.S. (min one course)

- GWST 1080 - Introduction to Gender and Women's Studies (HU) *(3CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Animal Science Technology, A.A.S.

Freshman Year

Fall Semester (14 Credits)

- AGRI 1010 - Computer Technology in Agriculture *(2CR)*
- ANSC 1010 - Intro to Animal Science *(4CR)*
- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*

  or
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Spring Semester (16 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- PEL 0000 - Program Electives (4CR)

[**Choose 9 credits from the following classes]**

- AECL 1000 - Agroecology *(4CR)*
- ANSC 1020 - Intro to Animal Science II *(3CR)*
- ANSC 1030 - Equine Management *(3CR)*
- ANSC 2130 - Swine Production *(3CR)*
- ANSC 2120 - Sheep Production *(3CR)*

Sophomore Year

Fall Semester (15 Credits)

- AGEC 1010 - Agricultural Macroeconomics (SSC) *(3CR)*
- PEL 0000 - Program Electives (6CR)

Choose from program electives listed below
[Choose 6 credits from the following]

- AGEC 2010 - Farm-Ranch Business Records *(3CR)*
- ANSC 2110 - Beef Production *(3CR)*
- REWM 2000 - Principles of Range Management *(3CR)*
- FDSC 2040 - Principles of Meat Animal Evaluation *(3CR)*
- ANSC 1160 - Issues in Agriculture *(3CR)*

Spring Semester (15 Credits)

- AGEC 1020 - Agricultural Microeconomics (SSC) *(3CR)*
- ANSC 2020 - Feeds and Feeding *(4CR)*
- AGEC 2020 - Farm-Ranch Business Management *(4CR)*
- PEL 0000 - Program Electives (4CR)

Program Electives:

- AGEC 1020 - Agricultural Microeconomics (SSC) *(3CR)*
- AGRI 1020 - GPS and GIS in Agriculture *(2CR)*
- AGRI 1101 - Freshman Experience *(2CR)*
- AGRI 1385 - Agriculture Leadership *(2CR)*
- AGRI 2475 - Independent Study in Agriculture *(1-3CR) (Max. 3)*
- AGTK 1570 - Horseshoeing *(2CR)*
- AGTK 1580 - Intro to Outdoor Recreation: Guide Outfitting *(3CR)*
- AGTK 1590 - Packing and Outfitting *(2CR)*
- ANSC 1100 - Artificial Insemination *(1CR)*
- ANSC 1160 - Issues in Agriculture *(3CR)*
- ANSC 1200 - Livestock Fitting and Showing *(2CR)*
- ANSC 1210 - Livestock Judging I *(3CR)*
- ANSC 1220 - Livestock Judging II (Advanced) *(3CR)*
- ANSC 2230 - Livestock Judging III *(2CR)*
- BIOL 2022 - Animal Biology *(4CR)*
- FDSC 2040 - Principles of Meat Animal Evaluation *(3CR)*
- FDSC 2100 - Principles of Meat Science *(3CR)*

Total Program Credits (60 Credits)

Note:

The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Animal Science, A.S.

Freshman Year

Fall Semester (17 Credits)

- AGRI 1010 - Computer Technology in Agriculture *(2CR)*
- ANSC 1010 - Intro to Animal Science *(4CR)*
- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (17 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- COM2 0000 - Oral Communication *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives (6CR)
  Choose 1 course from the following:
- ANSC 1020 - Intro to Animal Science II *(3CR)*
- ANSC 1030 - Equine Management *(3CR)*
- ANSC 2120 - Sheep Production *(3CR)*
- ANSC 2130 - Swine Production *(3CR)*
  Choose an additional 3 credits from the following prefixes: ANSC, AGRI, AGEC, AGTK, REWM, CHEM, AECL, BIOL, FDSC, SOIL, ZOO, MOLB, PHYS
  One class from list below
- ASTR 1050 - Survey of Astronomy (SCI) *(4CR)*
- CHEM 1000 - Intro to Chemistry *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- CHEM 1030 - General Chemistry II *(4CR)*
- GEOG 1010 - Introduction to Physical Geography (SCI) *(4CR)*

- GEOL 1070 - The Earth: Its Physical Environment (SCI) *(4CR)*
- GEOL 1100 - Physical Geology (SCI) *(4CR)*
- PHYS 1050 - Concepts of Physics (SCI) *(4CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*
- PHYS 1310 - College Physics I (SCI) *(4CR)*

Sophomore Year

**Must take AGEC 1010 Fall only or AGEC 1020 Spring only in your sophomore year

Fall Semester (15 Credits)

- AGEC 1010 - Agricultural Macroeconomics (SSC) *(3CR)*
  or
- AGEC 1020 - Agricultural Microeconomics (SSC) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- FDSC 2040 - Principles of Meat Animal Evaluation *(3CR)*
  or
- FDSC 2100 - Principles of Meat Science *(3CR)* (Offered Spring Semester Only)
- PEL 0000 - Program Electives (6CR) Choose 2 courses from the following courses:
- AGEC 2010 - Farm-Ranch Business Records *(3CR)*
- AGEC 2020 - Farm-Ranch Business Management *(4CR)*
- ANSC 2110 - Beef Production *(3CR)*
- REWM 2000 - Principles of Range Management *(3CR)*

Spring Semester (15 Credits)

- ANSC 2020 - Feeds and Feeding *(4CR)*
- HU 0000 - Humanities *(3CR)*
- PEL 0000 - Program Electives (8CR) Choose 1 course from the following:
- ANSC 1020 - Intro to Animal Science II *(3CR)*
- ANSC 1030 - Equine Management *(3CR)*
- ANSC 2120 - Sheep Production *(3CR)*
- ANSC 2130 - Swine Production *(3CR)* Choose an additional 5 credit hours from the following course prefixes: ANSC, AGRI, AGEC, AGTK, REWM, CHEM, AECL, BIOL, FDSC, SOIL, ZOO, MOLB, PHYS

Total Program Credits (64 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

- *(3CR)*
- ANSC 1220 - Livestock Judging II (Advanced) *(3CR)*
- ANSC 2020 - Feeds and Feeding *(4CR)*
- ANSC 2110 - Beef Production *(3CR)*
- ANSC 2120 - Sheep Production *(3CR)*
- ANSC 2130 - Swine Production *(3CR)*
- ANSC 2230 - Livestock Judging III *(2CR)*
- BADM 1000 - Intro to Business *(3CR)*
- BADM 1020 - Business Communications (COM1) *(3CR)*
- BADM 1025 - Small Business Finance *(3CR)*
- BADM 2010 - Legal Environment of Business
- BADM 2100 - Small Business Practices *(2CR)*
- BADM 2195 - Entrepreneurship *(3CR)*
- BANK 1500 - Principles of Banking *(3CR)*
- COMM 1030 - Interpersonal Communication *(3CR)*
- FDSC 2100 - Principles of Meat Science *(3CR)*
- MATH 2350 - Business Calculus (MATH) *(4CR)*
- REWM 2000 - Principles of Range Management *(3CR)*
- SOIL 2010 - Introduction to Soil Science *(4CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Anthropology, A.A.

Freshman Year

Fall Semester (17 Credits)

- ANTH 1200 - Intro to Cultural Anthropology (SSC) *(3CR)*
- ANTH 2210 - North American Indians *(3CR)*
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- WL 0000 - World Language *(4CR)*

Spring Semester (16 Credits)

- ANTH 1100 - Intro to Biological Anthropology *(3CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)* (or higher)
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- WL 0000 - World Language *(4CR)*

Sophomore Year

Fall Semester (16 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- HIST 1110 - Western Civilization I (HU) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- RELI 1000 - Intro to Religion (HU) *(3CR)*
  or
- GWST 1080 - Introduction to Gender and Women's Studies (HU) *(3CR)*

Spring Semester (12 Credits)

- ANTH 1300 - Intro to Archaeology *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HIST 1120 - Western Civilization II (HU) *(3CR)*
- SOC 2112 - Environmental Sociology *(3CR)*
  or
- SOC 2350 - Race and Ethnic Relations *(3CR)*

Total Program Credits (61 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Architectural Graphics and Design Certificate

Freshman Year

Fall Semester (7 credits)

- CNTK 2510 - Construction Estimating *(3CR)*
- ENTK 1500 - Engineering Graphics *(4CR)*

Spring Semester (7 credits)

- ENTK 1021 - Descriptive Geometry *(3CR)*
- ENTK 1710 - Architectural Drafting I *(4CR)*

Sophomore Year
Fall Semester (7-8 credits)
- ENTK 2600 - Construction Documents *(4CR)*
- PEL 0000 - Program Electives (3-4CR)

Choose one course from the following for program elective:
- CNTK 1530 - Architectural and Construction Planning *(3CR)*
- CNTK 1700 - Intro to Construction *(4CR)*
- CNTK 1870 - Construction Materials and Methods *(3CR)*
- CNTK 1905 - Carpentry *(4CR)*

Spring Semester (7-8 credits)
- ENTK 1720 - Architectural Drafting II *(4CR)*
- PEL 0000 - Program Electives (3-4CR)

Choose one course from the following for program elective:
- CNTK 1870 - Construction Materials and Methods *(3CR)*
- CNTK 1905 - Carpentry *(4CR)*
- CNTK 1530 - Architectural and Construction Planning *(3CR)*
- CNTK 1700 - Intro to Construction *(4CR)*

Program Total (28-30 credits)
Note:
*These courses are often completed by students previous to being a degree seeking student at Casper College and are included in the Engineering Technology and Design, A.A.S. degree as well.
This program cannot be completed in nine months due to the sequence of classes.

Graduation Requirements
For specific graduation requirements see "Degree Requirements".

Art Education, A.F.A.
Freshman Year
Fall Semester (16 Credits)
- ART 1005 - Drawing I (FA) *(3CR)*
- ART 1120 - Foundation: Three Dimensional (FA) *(3CR)*
- ART 2010 - Art History I (HU) *(3CR)*
- ART 2090 - Printmaking (FA) *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- COM2 0000 - Oral Communication *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Spring Semester (15 Credits)
- ART 1110 - Foundation: Two-Dimensional *(3CR)*
- ART 2020 - Art History II (HU) *(3CR)*
- EDFD 2020 - Foundations of Education *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- SSC 0000 - Social Science *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Sophomore Year
Fall Semester (15-16 Credits)
- ART 1115 - Digital Media (FA) *(3CR)*
- ART 2035 - Art History: The Enlightenment to Postmodern Art
- ART 1130 - Foundation: Color Theory *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- EDFD 2100 - Educational Psychology *(3CR)*

Spring Semester (16 Credits)
- ART 2141 - Professional Practice in the Arts *(1CR)*
- ART 2210 - Painting I (FA) *(3CR)*
- ART 2310 - Sculpture I (FA) *(3CR)*
- ART 2410 - Ceramics I (FA) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- EDEX 2484 - Intro to Special Education *(3CR)*

Total Program Credits (62-63 Credits)
Graduation Requirements:
A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Art, A.A.

Freshman Year

Fall Semester (15 Credits)

- ART 1005 - Drawing I (FA) *(3CR)*
- ART 1110 - Foundation: Two-Dimensional *(3CR)*
- ART 1130 - Foundation: Color Theory *(3CR)*
- ART 2010 - Art History I (HU) *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*

Spring Semester (15 Credits)

- ART 2005 - Drawing II *(3CR)*
- ART 2020 - Art History II (HU) *(3CR)*
- ART 2310 - Sculpture I (FA) *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- MATH 0000 - Math Computation *(3CR)*

Sophomore Year

Fall Semester (16 Credits)

- ART 1120 - Foundation: Three Dimensional (FA) *(3CR)*
- ART 2035 - Art History: The Enlightenment to Postmodern Art
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- SSC 0000 - Social Science *(3CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*

Spring Semester (16 Credits)

- ART 2210 - Painting I (FA) *(3CR)*
- ART 1150 - Black and White Film Photography I (FA) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Total Program Credits (62 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Assistive Technology Certificate

Program Prerequisite: HLTK 1625, HLTK 1620 or an equivalent CPR certification.

Certificate Requirements

- HLTK 1855 - Assistive Technology Practicum *(3CR)*
- HLTK 1860 - Introduction to Human Disease *(3CR)*
- HLTK 1870 - Professionalism in Healthcare *(3CR)*
  or
- HLTK 2560 - The Interprofessional Health Care Team *(3CR)* (for those students that have completed COTA 2420)
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

Note:

The normal length of this program is 16 weeks.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Athletic Training, A.S.

Freshman Year

Fall Semester (16 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- KIN 1004 - Introduction to Kinesiology and Health Promotion *(2CR)*
- KIN 1020 - Taping and Wrapping of Injuries *(1CR)*
- KIN 1052 - Introduction to Athletic Training *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Spring Semester (17 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- KIN 1058 - Emergency Management of Athletic Injury/Illness *(3CR)*
- KIN 2068 - Athletic Training Clinical I *(1CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Sophomore Year

Fall Semester (17 Credits)

- FCSC 1141 - Principles of Nutrition (SCI Elective) *(3CR)*
  or
- KIN 2136 - Sports Nutrition *(3CR)*
- HU 0000 - Humanities *(3CR)*
- KIN 2058 - Assessment and Evaluation of Athletic Injuries/Illness: Lower Extremity
- KIN 2078 - Athletic Training Clinical II *(1CR)*
- HLED 1006 - Personal Health *(3CR)*
  or
- HLTK 1200 - Medical Terminology *(3CR)*
  or
- KIN 2030 - Motor Learning *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

Spring Semester (16 Credits)

- CHEM 1000 - Intro to Chemistry *(4CR)*
  or
- CHEM 1020 - General Chemistry I *(4CR)*
  or
- PHYS 1050 - Concepts of Physics (SCI) *(4CR)*
  or
- PHYS 1110 - General Physics I (SCI) *(4CR)*
- HW 0000 - Health and Wellness *(1CR)*
- KIN 2050 - Functional Kinesiology *(3CR)*
- KIN 2057 - Assessment and Evaluation of Athletic Injuries/Illness: Upper Extremity, Spine, and Head
- KIN 2098 - Athletic Training Clinical III *(1CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*

Total Program Credits (66 Credits)

Note:

Students who plan to transfer to the University of Wyoming are advised that UW requires CHEM 1000 Basic Chemistry.

The major courses listed are designed to fit a variety of transfer programs. Students transferring to specific Baccalaureate programs at other institutions should provide their academic advisor with a copy of that program to ensure proper transfer of courses (some substitution of courses will be allowed).

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Auto Body Repair Technology Certificate

Freshman Year

Fall Semester (18.5 credits)

- AUBR 1540 - Auto Body Welding *(3CR)*
- AUBR 1550 - Auto Body Repair I *(5CR)*
- AUBR 1810 - Collision Damage Repair I *(5CR)*
- AUBR 1910 - Auto Paint I *(5CR)*

Spring Semester (20.5 credits)

- AUBR 1560 - Auto Body Repair II *(5CR)*
- AUBR 1710 - Frame and Chassis I *(2.5CR)*

- AUBR 1820 - Collision Damage Repair II *(5CR)*
- AUBR 1920 - Auto Paint II *(5CR)*
- WELD 1910 - Specialized Welding and Joining *(3CR)*

Program Total (38.5 credits)

Note:

To graduate with a certificate or degree, students must earn a "C" or better in all major requirements.

The normal length of this program is nine months.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Auto Body Repair Technology, A.A.S.

Freshman Year

Fall Semester (20.5 credits)

- AUBR 1540 - Auto Body Welding *(3CR)*
- AUBR 1550 - Auto Body Repair I *(5CR)*
- AUBR 1810 - Collision Damage Repair I *(5CR)*
- AUBR 1910 - Auto Paint I *(5CR)*
- WELD 1820 - GMAW and GTAW Welding *(2.5CR)*

Spring Semester (20.5 credits)

- AUBR 1560 - Auto Body Repair II *(5CR)*
- AUBR 1710 - Frame and Chassis I *(2.5CR)*
- AUBR 1820 - Collision Damage Repair II *(5CR)*
- AUBR 1920 - Auto Paint II *(5CR)*
- WELD 1910 - Specialized Welding and Joining *(3CR)*

Sophomore Year

Fall Semester (12 credits)

- AUBR 1975 - Independent Study - Auto Body Repair *(1-3CR) (Max. 6)* (3CR)
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*
- GEL 0000 - General Education Electives 3-4CR
  or
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- MATH 0000 - Math Computation *(3CR)*

Spring Semester (7 credits)

- AUBR 1975 - Independent Study - Auto Body Repair *(1-3CR) (Max. 6)* (3CR) minimum
  or
- AUBR 1980 - Cooperative Work Experience *(1-8CR)* (3CR) minimum
- HW 0000 - Health and Wellness *(1CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*

Total Program Credits (60 Credits)

Note:

To graduate with a certificate or degree, students must earn a "C" or better in all major requirements.

The normal length of this program is 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Automotive Technology Certificate

Note: To graduate with a certificate or degree, students must earn a "C" or better in all major requirements.

Certificate Requirements

Fall Semester (21 credits)

Students beginning the program in the fall semester will register for the fundamental courses listed below.

- AUTO 1510 - Engine System Fundamentals *(6CR)*
- AUTO 1690 - Manual Power Train Fundamentals *(4CR)*
- AUTO 1765 - Automotive Electrical *(5CR)*
- AUTO 2550 - Auto Alignment and Suspension *(4CR)*
- AUTO 2980 - Cooperative Work Experience *(2CR)*

Spring Semester (20 credits)

Students will select from the following courses in the spring semester.

- AUTO 1740 - Brake Systems *(4CR)*
- AUTO 1760 - Heating and Air Conditioning *(4CR)*
- AUTO 2565 - Advanced Automotive Electrical *(5CR)*
- AUTO 2610 - Computerized Fuel Systems *(5CR)*
- AUTO 2980 - Cooperative Work Experience *(2CR)*

Program Total (41 credits)

Note:

To graduate with a certificate or degree, students must earn a "C" or better in all major requirements. The normal length of this program is typically two semesters

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Automotive Technology, A.A.S.

Freshman Year

Fall Semester (21 credits)

- AUTO 1510 - Engine System Fundamentals *(6CR)*
- AUTO 1690 - Manual Power Train Fundamentals *(4CR)*
- AUTO 1765 - Automotive Electrical *(5CR)*
- AUTO 2550 - Auto Alignment and Suspension *(4CR)*
- AUTO 2980 - Cooperative Work Experience *(2CR)* (2CR) required

Spring Semester (20 credits)

- AUTO 1740 - Brake Systems *(4CR)*
- AUTO 1760 - Heating and Air Conditioning *(4CR)*
- AUTO 2565 - Advanced Automotive Electrical *(5CR)*
- AUTO 2610 - Computerized Fuel Systems *(5CR)*
- AUTO 2980 - Cooperative Work Experience *(2CR)* (2CR) required

Sophomore Year

Fall Semester (12 credits)

- GEL 0000 - General Education Electives (3-4CR)
- PEL 0000 - Program Electives (6CR) Approved electives may be any other AUBR, AUTO, DESL, ELTR, MCHT and/or WELD courses.
- CNST 0000 - US and Wyoming Constitutions *(3CR)*

Spring Semester (12-13 credits)

- PEL 0000 - Program Electives (2CR) Approved electives may be any other AUBR, AUTO, DESL, ELTR, MCHT and/or WELD courses.
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
  or
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- HW 0000 - Health and Wellness *(1CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*

Total Program Credits (65-66)

Note:

To graduate with a certificate or degree, students must earn a "C" or better in all major requirements.
The normal length of this program is two academic years.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of

Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Aviation Certificate

Flight costs are not covered by tuition costs.

Freshman Year

Fall Semester (8 credits)

- AVTN 2510 - Private Pilot Ground *(3CR)*
- AVTN 2520 - Private Pilot Flight *(5CR)*

Spring Semester (8 credits)

- AVTN 2600 - Instrument Pilot Ground *(3CR)*
- AVTN 2620 - Instrument Pilot Flight *(5CR)*

Sophomore Year

Fall Semester (8 credits)

- AVTN 2705 - Commercial Pilot Ground *(3CR)*
- AVTN 2720 - Commercial Pilot Flight I *(5CR)*

Spring Semester (5 credits)

- AVTN 2730 - Commercial Pilot Flight II *(5CR)*

Total Certificate Credits (29 credits)

Certificate Graduation Requirements

The normal length of this program is 9 months. For specific graduation requirements see "Degree Requirements".

Note:

The following course fees must be paid to Casper College before starting each AVTN class. Casper College will forward payment to Rising Wings Aviation.

AVTN 2510 - Private Pilot Ground - $500
AVTN 2520 - Private Pilot Flight - $19,525
AVTN 2600 - Instrument Pilot Ground - $375
AVTN 2620 - Instrument Pilot Flight - $17,475
AVTN 2705 - Commercial Pilot Ground - $325
AVTN 2720 - Commercial Pilot Flight I - $17,100
AVTN 2730 - Commercial Pilot Flight II - $14,375
**Other costs will be incurred by the student while completing the coursework. These may include (but are not limited to) books, FAA Medical Examination Fees, Aircraft Rental Insurance/year, Apple iPad/flight apps, FAA Exam fees, and headset rental.
**Students must obtain a third-class (or higher) FAA Medical Certificate before the start of flight training.

Aviation, A.A.S.

Freshman Year

Fall Semester (15 credits)

- AVTN 2510 - Private Pilot Ground *(3CR)*
- AVTN 2520 - Private Pilot Flight *(5CR)*
- FIN 1000 - Personal Finance *(3CR)*
- GIST 1080 - Introduction to GPS and Maps *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Spring Semester (14 credits)

- AVTN 2600 - Instrument Pilot Ground *(3CR)*
- AVTN 2620 - Instrument Pilot Flight *(5CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*

Sophomore Year

Fall Semester (15 credits)

- AVTN 2705 - Commercial Pilot Ground *(3CR)*
- AVTN 2720 - Commercial Pilot Flight I *(5CR)*
- PHYS 1050 - Concepts of Physics (SCI) *(4CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*

Spring Semester (16 credits)

- AVTN 2730 - Commercial Pilot Flight II *(5CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- MGT 2100 - Principles of Management *(3CR)*
- PEL 0000 - Program Electives (5CR)

Total Program Credits (60 Credits)

Note:

The following course fees must be paid to Casper College before starting each AVTN class. Casper College will forward payment to Rising Wings Aviation.

AVTN 2510 - Private Pilot Ground - $500
AVTN 2520 - Private Pilot Flight - $19,525
AVTN 2600 - Instrument Pilot Ground - $375
AVTN 2620 - Instrument Pilot Flight - $17,475
AVTN 2705 - Commercial Pilot Ground - $325
AVTN 2720 - Commercial Pilot Flight I - $17,100
AVTN 2730 - Commercial Pilot Flight II - $14,375

Other costs will be incurred by the student while completing the coursework. These may include (but are not limited to) books, FAA Medical Examination Fees, Aircraft Rental Insurance/year, Apple iPad/flight apps, FAA Exam fees, and headset rental.

**Students must obtain a third-class (or higher) FAA medical certificate before the start of flight training.

All AVTN pilot ground classes must be taken concurrently with corresponding ground schools or have already been taken.

The normal length of this program is two academic years at 15 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Biology, A.S.

Freshman Year

Fall Semester (18 Credits)

- BIOL 1010 - General Biology I (SCI) *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (17-18 Credits)

- BIOL 2022 - Animal Biology *(4CR)*
- CHEM 1030 - General Chemistry II *(4CR)*
  or
- CHEM 2300 - Intro to Organic Chemistry *(4CR)* **will need if transferring to UW
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- MATH 1405 - Trigonometry (MATH) *(3CR)*
- PEL 0000 - Program Electives (3-4CR)

Sophomore Year

Fall Semester (16 Credits)

- BIOL 2023 - Plant and Fungal Biology *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 2200 - Calculus I (MATH) *(4CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*

Spring Semester (17-18 Credits)

- FA 0000 - Fine Arts *(3CR)*
- MOLB 2210 - General Microbiology *(4CR)*
- PHYS 1120 - General Physics II *(4CR)*
- PEL 0000 - Program Electives (3-4CR)
- SSC 0000 - Social Science *(3CR)*

Program Electives

Electives may be chosen at the direction of the academic advisor

- BIOL 2111 - Wildlife Techniques *(4CR)*
- BIOL 2120 - Biomedical and Environmental Ethics *(3CR)*
- BIOL 2400 - General Ecology *(3CR)*
- BIOL 2410 - Intro to Field Ecology *(2CR)*
- CHEM 2420 - Organic Chemistry I
- BIOL 2465 - Research Problems in Biology *(1-3CR) (Max. 3)*
- COSC 1010 - Computational Thinking and Programming
- ENR 1200 - Environment (SCI) *(4CR)*
- ENTO 1001 - Insect Biology *(4CR)*
- FCSC 1141 - Principles of Nutrition (SCI Elective) *(3CR)*

- FCSC 2141 - Nutrition Controversies *(2CR)*
- GIST 1080 - Introduction to GPS and Maps *(3CR)*
- GIST 1100 - Introduction to GIS *(4CR)*
- MOLB 2220 - Pathogenic Microbiology *(4CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Total Program Credits (68-70 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Bookkeeping Certificate

Fall Semester (16 credits)

- BADM 1005 - Business Mathematics I (MATH) *(3CR)*
  or
- MATH 1000 - Problem Solving (MATH) *(3CR)* or higher
- BADM 1020 - Business Communications (COM1) *(3CR)*
- ACCT 2010 - Principles of Accounting I *(4CR)*
- ACCT 2110 - QuickBooks Accounting *(3CR)*
- CMAP 1765 - Spreadsheet Applications *(3CR)*
  or
- CMAP 1750 - Excel Basics *(1CR)*
  and
- CMAP 1755 - Spreadsheet Applications II *(1CR)*
  and
- CMAP 1760 - Spreadsheet Applications III *(1CR)*

Spring Semester (16 credits)

- ACCT 2115 - Advanced QuickBooks *(3CR)*
- ACCT 2510 - Accounting for Bookkeepers *(4CR)*
- ACCT 2460 - Payroll Accounting *(3CR)*
- ACCT 2800 - Certified Bookkeeper Exam Review *(3CR)*
- CMAP 1200 - Computer Information Systems *(3CR)*

Program Total (32 credits)

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Business Administration, A.B.

Freshman Year

Fall Semester (17 credits)

- ECON 1020 - Microeconomics (SSC) *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- MGT 2100 - Principles of Management *(3CR)*
- ACCT 2010 - Principles of Accounting I *(4CR)*

Spring Semester (17 credits)

- BADM 2010 - Legal Environment of Business
- ECON 1010 - Macroeconomics (SSC) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ACCT 2020 - Principles of Accounting II *(4CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*

Sophomore Year

Fall Semester (17 credits)

- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*

- MKT 2100 - Principles of Marketing *(3CR)*
- MATH 2350 - Business Calculus (MATH) *(4CR)*
- FA 0000 - Fine Arts *(3CR)*

Spring Semester (14 credits)

- HW 0000 - Health and Wellness *(1CR)*
- IMGT 2400 - Introduction to Information Management *(3CR)*
- MATH 2355 - Mathematical Applications for Business *(4CR)*
- HU 0000 - Humanities *(3CR)*
- BADM 2030 - Business Ethics *(3CR)*

Total Program Credits (65 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Business Management, A.A.S.

Freshman Year

Fall Semester (15 credits)

- BADM 1005 - Business Mathematics I (MATH) *(3CR)*
  or
- MATH 1000 - Problem Solving (MATH) *(3CR)* (or higher)
- CMAP 1200 - Computer Information Systems *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- BADM 1000 - Intro to Business *(3CR)*
- ECON 1020 - Microeconomics (SSC) *(3CR)*

Spring Semester (15 credits)

- BADM 1020 - Business Communications (COM1) *(3CR)*
- BADM 2010 - Legal Environment of Business
- ECON 1010 - Macroeconomics (SSC) *(3CR)*
- MKT 2100 - Principles of Marketing *(3CR)*
- PEL 0000 - Program Electives (3CR) Approved Program Electives ACCT, BADM, FIN, HOSP, IMGT, MGT, MKT

Sophomore Year

Fall Semester (16 credits)

- ACCT 2010 - Principles of Accounting I *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- MGT 2100 - Principles of Management *(3CR)*
- PEL 0000 - Program Electives (6CR) Advisor Approved Electives ACCT, BADM, FIN, HOSP, IMGT, MGT, MKT

Spring Semester (14 credits)

- ACCT 2020 - Principles of Accounting II *(4CR)*
- BADM 1025 - Small Business Finance *(3CR)*
- IMGT 2400 - Introduction to Information Management *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MGT 2200 - Strategic Human Resource Management *(3CR)*

Total Program Credits (60 credits)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Chemistry, A.S.

Freshman Year

Fall Semester (17 Credits)

- CHEM 1020 - General Chemistry I *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- PEL 0000 - Program Electives (4CR)
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- FA 0000 - Fine Arts *(3CR)*

Spring Semester (15 Credits)

- CHEM 1030 - General Chemistry II *(4CR)*
- COM2 0000 - Oral Communication *(3CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 2200 - Calculus I (MATH) *(4CR)*
- HW 0000 - Health and Wellness *(1CR)*

Sophomore Year

Fall Semester (15 Credits)

- CHEM 2420 - Organic Chemistry I
- GEL 0000 - General Education Electives (4CR)
- PHYS 1310 - College Physics I (SCI) *(4CR)*
- SSC 0000 - Social Science *(3CR)*

Spring Semester (17 Credits)

- CHEM 2230 - Quantitative Analysis *(4CR)*
- CHEM 2440 - Organic Chemistry II *(4CR)*
- GEL 0000 - General Education Electives (3CR)
- PEL 0000 - Program Electives (6CR)

Total Program Credits (64 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

To obtain a degree in chemistry, a student must obtain a grade of "C" or better in all major requirements.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Coaching Certificate

Fall Semester (7.33 Credits)

- PEPR 2091 - Sports Officiating I *(2CR)*
- PEPR 2100 - Theory of Coaching: *(2CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- HLTK 1625 - American Heart Association BLS for the Provider *(.33CR)*

Spring Semester (9 Credits)

- KIN 2052 - Prevention and Care of Athletic Injuries *(3CR)*
- PEPR 2110 - Foundations of Coaching *(3CR)*
- PSYC 2300 - Psychology of Child Development *(3CR)*

Total Certificate Credits (16.33 Credits)

Note:

The normal length of this program is nine months.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Community Emergency Medical Services Certificate

Certificate Requirements

- EMS 2961 - Community EMS Technician *(4CR)*
- EMS 2962 - Community EMS Technician Clinical *(1CR)*
- EMS 2963 - Community EMS Clinician *(8CR)*
- EMS 2964 - Community EMS Clinician Clinical *(3CR)*

Total Certificate Credits (16 CR)

Note:

The normal length of this program is two semesters.

Graduation Requirements
For specific graduation requirements see "Degree Requirements".

Computer Science, A.S.

Freshman Year
Fall Semester (15 Credits)
- COSC 1010 - Computational Thinking and Programming
- MATH 2200 - Calculus I (MATH) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- SSC 0000 - Social Science *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Spring Semester (15 Credits)
- COSC 1030 - Computer Programming
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- COM2 0000 - Oral Communication *(3CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*

Sophomore Year
Fall Semester (15 Credits)
- COSC 2030 - Data Structures
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- PEL 0000 - Program Electives (4CR)

Spring Semester (15 Credits)
- COSC 2150 - Computer Organization *(3CR)*
- COSC 2300 - Discrete Structures
- HU 0000 - Humanities *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives (3CR)
  Program electives must include at least seven credits from the following courses and prefixes listed:
  ES, CSCO, CSEC, or INET Course
- COSC 2409 - Programming: *(2-4CR)*
- COSC 2418 - Mobile App Development *(3CR)*
- COSC 2480 - Cooperative Experience (Computer Systems and Applications) *(1-3CR) (Max. 6)*
- MATH 2205 - Calculus II *(4CR)*
- MATH 2210 - Calculus III *(4CR)*
- MATH 2250 - Elementary Linear Algebra *(3CR)*
- MATH 2310 - Applied Differential Equations I *(3CR)*

Total Program Credits (60 Credits)
Note:
All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:
To obtain a degree in computer science, a student must obtain a grade of "C" or better in all major requirements.

Graduation Requirements:
A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Construction Management, A.S.

Freshman Year
Fall Semester (16 credits)
- CNTK 1525 - Materials Handling and Construction Equipment *(3CR)*
- CNTK 1530 - Architectural and Construction Planning *(3CR)*
- CNTK 1870 - Construction Materials and Methods *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (17 credits)
- CNTK 1560 - Construction Safety *(3CR)*
- ENTK 1010 - Elements of Surveying *(3CR)*

- ENTK 1500 - Engineering Graphics *(4CR)*
- MATH 1405 - Trigonometry (MATH) *(3CR)*
- GEOL 1100 - Physical Geology (SCI) *(4CR)*

Sophomore Year

Fall Semester (17 credits)

- ENTK 2600 - Construction Documents *(4CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*
- ECON 1010 - Macroeconomics (SSC) *(3CR)*
- COM2 0000 - Oral Communication *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*

Spring Semester (17 credits)

- CNTK 2510 - Construction Estimating *(3CR)*
- ACCT 2010 - Principles of Accounting I *(4CR)*
- BADM 2010 - Legal Environment of Business
- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)* (SPAN 1010-First Year Spanish suggested (HU) (4CR)
- HW 0000 - Health and Wellness *(1CR)*

Total Program Credits (67 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Construction Staking and GPS Certificate

This certificate is for those entering the horizontal/civil construction industry as well as a stackable credential.

Fall Semester (17 Credits)

- CNTK 1525 - Materials Handling and Construction Equipment *(3CR)*
- ENTK 1010 - Elements of Surveying *(3CR)*
- ENTK 1060 - Excel Technical Applications *(3CR)*
- ENTK 1500 - Engineering Graphics *(4CR)*
- GIST 1100 - Introduction to GIS *(4CR)*

Spring Semester (16 Credits)

- CNTK 2530 - Construction Staking & GPS *(3CR)*
- CNTK 2980 - Cooperative Work Experience (Construction) *(1-4CR) (Max. 8)* (4CR) Work experience can occur during the Fall, Spring, or Summer
- ELTR 1545 - Utility Locator Certification *(2CR)*
- ENTK 2550 - Civil Drafting I *(4CR)*
- GIST 1060 - Introduction to Remote Sensing and Drones *(3CR)*

Total Program Credits (33 Credits)

Certificate Graduation Requirements

The normal length of this program is 9 months. For specific graduation requirements see "Degree Requirements".

Construction Technology Certificate

Fall Semester (17 credits)

- CNTK 1525 - Materials Handling and Construction Equipment *(3CR)*
- CNTK 1530 - Architectural and Construction Planning *(3CR)*
- CNTK 1700 - Intro to Construction *(4CR)*
- CNTK 1905 - Carpentry *(4CR)*
- CNTK 2530 - Construction Staking & GPS *(3CR)*
- CNTK 2980 - Cooperative Work Experience (Construction) *(1-4CR) (Max. 8)*

- CNTK 2510 - Construction Estimating *(3CR)*
- ENTK 1500 - Engineering Graphics *(4CR)*

Spring Semester (21 credits)

- CNTK 1560 - Construction Safety *(3CR)*
- CNTK 1870 - Construction Materials and Methods *(3CR)*
- CNTK 1860 - Woodworking Fundamentals I *(4CR)*
- ENTK 1010 - Elements of Surveying *(3CR)*
- ENTK 1710 - Architectural Drafting I *(4CR)*
- CNTK 1700 - Intro to Construction *(4CR)*
- CNTK 1905 - Carpentry *(4CR)*
- CNTK 2530 - Construction Staking & GPS *(3CR)*
- CNTK 2980 - Cooperative Work Experience (Construction) *(1-4CR) (Max. 8)*

Program Total (38 credits)

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Construction Technology, A.A.S.

Freshman Year

Fall Semester (16 credits)

- CNTK 1525 - Materials Handling and Construction Equipment *(3CR)*
- CNTK 1530 - Architectural and Construction Planning *(3CR)*
- CNTK 1870 - Construction Materials and Methods *(3CR)*
- ENTK 1500 - Engineering Graphics *(4CR)*
- ENTK 1060 - Excel Technical Applications *(3CR)*

Spring Semester (16-17 credits)

- CNTK 1560 - Construction Safety *(3CR)*
- ENTK 1010 - Elements of Surveying *(3CR)*
- ENTK 1710 - Architectural Drafting I *(4CR)*
- CNTK 2510 - Construction Estimating *(3CR)*
- CNTK 1700 - Intro to Construction *(4CR)*
- CNTK 1905 - Carpentry *(4CR)*
- CNTK 2530 - Construction Staking & GPS *(3CR)*
- CNTK 2980 - Cooperative Work Experience (Construction) *(1-4CR) (Max. 8)*

Sophomore Year

Fall Semester (13-14 credits)

- ENTK 2600 - Construction Documents *(4CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- COM2 0000 - Oral Communication *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- MATH 0000 - Math Computation *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- SSC 0000 - Social Science *(3CR)*

Spring Semester (14-16 credits)

- CNTK 1860 - Woodworking Fundamentals I *(4CR)*
- GEL 0000 - General Education Electives
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- CNTK 1700 - Intro to Construction *(4CR)*
- CNTK 1905 - Carpentry *(4CR)*
- CNTK 2530 - Construction Staking & GPS *(3CR)*
- CNTK 2980 - Cooperative Work Experience (Construction) *(1-4CR) (Max. 8)*

Total Program Credits (61-63 Credits)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of

Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Criminal Justice, A.A.

Freshman Year

Fall Semester (16 Credits)

- CRMJ 1001 - Intro to Criminal Justice (SSC) *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 0000 - Math Computation *(3CR)* (1000 level or higher)
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

Spring Semester (15 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- CRMJ 2210 - Criminal Law I
- CRMJ 2250 - Police Administration *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- SOC 1100 - Social Problems *(3CR)*

Sophomore Year

Fall Semester (16 - 20 Credits)

- CRMJ 2130 - Criminal Investigation I *(3CR)*
- CRMJ 2280 - Criminal Procedure *(3CR)*
- CRMJ 2430 - The Community and the Police *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- SOC 2400 - Criminology *(3CR)*
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)* (*will need if transferring to UW)

Spring Semester (16 - 20 Credits)

- CRMJ 2230 - Law of Evidence
- CRMJ 2350 - Introduction to Corrections *(3CR)*
- CRMJ 2895 - Capstone Directed Studies in Criminal Justice *(1CR)*
- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- POLS 1000 - American and Wyoming Government (CNST) *(3CR)*
- PSYC 2000 - Research Psychological Methods *(4CR)* (*will need if transferring to UW)

Total Program Credits (63 - 71 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Criminal Justice, A.A.S.

Freshman Year

Fall Semester (15 - 16 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- CRMJ 1001 - Intro to Criminal Justice (SSC) *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

Spring Semester (15 Credits)

- CRMJ 2210 - Criminal Law I
- CRMJ 2250 - Police Administration *(3CR)*
- CRMJ 2350 - Introduction to Corrections *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- SSC 0000 - Social Science *(3CR)*

- PSYC 1000 - General Psychology (SSC) *(3CR)*

Sophomore Year

Fall Semester (15 Credits)

- CRMJ 2130 - Criminal Investigation I *(3CR)*
- CRMJ 2430 - The Community and the Police *(3CR)*
- CRMJ 2280 - Criminal Procedure *(3CR)*
- SOC 2400 - Criminology *(3CR)*
- CRMJ 2230 - Law of Evidence

Spring Semester (15 Credits)

- ADDN 1050 - Crime and Drugs *(3CR)*
- CRMJ 1705 - Advanced Firearms *(3CR)*
- CRMJ 2005 - Introduction to Automated Fingerprint Identification Systems *(1CR)*
- CRMJ 2570 - Criminalistics *(3CR)*
- CRMJ 2895 - Capstone Directed Studies in Criminal Justice *(1CR)*
- CRMJ 2970 - Criminal Justice Internship *(*1-3CR) (Max. 3)*
- HW 0000 - Health and Wellness *(1CR)*

Total Program Credits (58 - 62 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Cyber Security Certificate

Upon successful completion of the certificate, students will have the necessary skills to qualify for the CCNA certification exam.

Fall Semester (15 credits)

- CMAP 1615 - Operating Systems *(3CR)*
- CSCO 2000 - CCNA I Intro to Networks *(3CR)*
- CSEC 1501 - Network Security Fundamentals *(3CR)*
- CSEC 1530 - Computer Forensics *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*

Spring Semester (16 credits)

- BADM 1020 - Business Communications (COM1) *(3CR)*
- CSCO 2020 - CCNA II Switching, Routing, And Wireless Essentials *(3CR)*
- CSCO 2025 - CCNA III Enterprise Networking, Security, and Automation *(4CR)*
- CSEC 1510 - Network Defense Principles *(3CR)*
- CSEC 1520 - Network Attack Principles *(3CR)*

Program Total (31 credits)

Note:

The normal length of the program is two semesters.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Cyber Security, A.A.S.

Freshman Year

Fall Semester (16 credits)

- CSEC 1501 - Network Security Fundamentals *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- CSCO 2000 - CCNA I Intro to Networks *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*

Spring Semester (15 credits)

- CMAP 1200 - Computer Information Systems *(3CR)*
- CMAP 1815 - Database Applications *(3CR)*
  or
- CMAP 1800 - Database Basics *(1CR)*
  and
- CMAP 1805 - Database Applications II *(1CR)*
  and
- CMAP 1810 - Database Applications III *(1CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- CSEC 1520 - Network Attack Principles *(3CR)*
- CSCO 2020 - CCNA II Switching, Routing, And Wireless Essentials *(3CR)*

Sophomore Year

Fall Semester (15 credits)

- CMAP 1615 - Operating Systems *(3CR)*
- COSC 1010 - Computational Thinking and Programming
- CSCO 2025 - CCNA III Enterprise Networking, Security, and Automation *(4CR)*
- CSCO 2035 - CCNA Certification Exam Review *(1CR)*
- CSEC 1530 - Computer Forensics *(3CR)*

Spring Semester (14-16 credits)

- CSEC 1510 - Network Defense Principles *(3CR)*
- CSEC 1980 - Cooperative Work Experience - Internship *(1-3CR) (3CR Max)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- IMGT 2400 - Introduction to Information Management *(3CR)*
- INET 2670 - Internet Ethics and Cyber Law *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Total Program Credits (60-62 Credits)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Dance A.A.

Freshman Year

Fall Semester (16 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- DANC 1300 - Dance Improvisation I *(2CR)*
- DANC 1410 - Beginning Ballet I (FA) *(2CR)*
  or
- DANC 1420 - Beginning Ballet II *(2CR)*
- DANC 1460 - Beginning Modern Dance I (FA) *(2CR)*
  or
- DANC 2460 - Intermediate Modern Dance I *(2CR)*
- DANC 1480 - Beginning Jazz Dance I (FA) *(2CR)*
- THEA 1050 - Theatre and Dance Townhall *(0CR)*

Spring Semester (18 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- DANC 1405 - Movement Fundamentals and Conditioning *(2CR)*
- DANC 1500 - Dance Performance *(1-2 CR) (Max. 5)*
- DANC 1470 - Beginning Modern Dance II *(2CR)*
  or
- DANC 2470 - Intermediate Modern Dance II *(2CR)*
- DANC 1420 - Beginning Ballet II *(2CR)*
  or
- DANC 2410 - Intermediate Ballet I *(2CR)*
- MATH 0000 - Math Computation *(3CR)*
- THEA 2435 - Musical Theatre Dance *(1CR)*

- THEA 1050 - Theatre and Dance Townhall *(0CR)*
- THEA 2160 - Stage Makeup *(3CR)*
  or
- THEA 1200 - Introduction to Stage Design *(3CR)*

Sophomore Year

Fall Semester (16 Credits)

- COM2 0000 - Oral Communication *(3CR)*
- DANC 1015 - Introduction to Dance (HU) *(3CR)*
- DANC 1450 - Beginning Tap Dance I (FA) *(2CR)*
- DANC 2410 - Intermediate Ballet I *(2CR)*
  or
- DANC 2420 - Intermediate Ballet II *(2CR)*
- DANC 2460 - Intermediate Modern Dance I *(2CR)*
- HU 0000 - Humanities *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- THEA 1050 - Theatre and Dance Townhall *(0CR)*

Spring Semester (18 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- DANC 1500 - Dance Performance *(1-2 CR) (Max. 5)*
- DANC 2212 - Beginning Composition *(2CR)*
- DANC 2420 - Intermediate Ballet II *(2CR)*
- DANC 2470 - Intermediate Modern Dance II *(2CR)*
- DANC 2480 - Intermediate Jazz Dance II *(2CR)*
- FA 0000 - Fine Arts *(3CR)*
- SSC 0000 - Social Science *(3CR)*
- THEA 1050 - Theatre and Dance Townhall *(0CR)*

Total Program Credits (66 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Diesel Power Technology Certificate

Fall Semester (21 credits)

- DESL 1540 - Heavy Duty Electrical Systems *(3CR)*
- DESL 1610 - Engine Rebuilding I *(9CR)*
- DESL 1655 - Diesel Fuel Systems and Tuning I *(5CR) (5 weeks)*
- DESL 1980 - Cooperative Work Experience *(4-8CR)(Max 8CR)* (4CR)

Spring Semester (22 credits)

- DESL 1580 - Power Train, Braking, and Steering *(5CR)*
- DESL 1620 - Engine Rebuilding II *(5CR) (5 weeks Lec, 5 weeks Lab)*
- DESL 1660 - Diesel Fuel Systems and Tuning II *(5CR) (5 weeks)*
- DESL 1850 - Basic Hydraulics *(3CR)*
- DESL 1980 - Cooperative Work Experience *(4-8CR)(Max 8CR)* (4CR)

Total Program Credits (43 Credits)

Natural Gas Option (Total Program Credits 44.5)

Complete all degree requirements above with the exception of DESL 1620, DESL 1680 will be taken in place.
*Permission of the instructor required.

- DESL 1680 - Natural Gas Engine Technology *(6.5CR)*

Note:

To graduate with a certificate or a degree, students must earn a "C" or better in all major requirements. The normal length of this program is two academic semesters.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Diesel Power Technology, A.A.S.

Freshman Year

Fall Semester (21 credits)

- DESL 1540 - Heavy Duty Electrical Systems *(3CR)*
- DESL 1610 - Engine Rebuilding I *(9CR)*
- DESL 1655 - Diesel Fuel Systems and Tuning I *(5CR) (5 weeks)*
- DESL 1980 - Cooperative Work Experience *(4-8CR)(Max 8CR)* (4CR)

Spring Semester (22 credits)

- DESL 1580 - Power Train, Braking, and Steering *(5CR)*
- DESL 1620 - Engine Rebuilding II *(5CR) (5 weeks Lec, 5 weeks Lab)*
- DESL 1660 - Diesel Fuel Systems and Tuning II *(5CR) (5 weeks)*
- DESL 1850 - Basic Hydraulics *(3CR)*
- DESL 1980 - Cooperative Work Experience *(4-8CR)(Max 8CR)* (4CR)

Sophomore Year

Fall Semester (10 credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
  or
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Spring Semester (11 credits)

- GEL 0000 - General Education Electives 3-4 CR
- PEL 0000 - Program Electives (4CR) Diesel electives to include: AUBR, AUTO, DESL, ELTR, MCHT and WELD
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*

Natural Gas Option

Complete all degree requirements above with the exception of DESL 1620. DESL 1680 will be taken in its place.
*Permission of instructor required.

- DESL 1680 - Natural Gas Engine Technology (10.5CR) *

Total Program Credits (64 Credits)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Note:

To graduate with a certificate or a degree, students must earn a "C" or better in all major requirements.
The normal length of this program is two academic years at 15-17 credit hours per semester.

Early Childhood Education, A.A.

Freshman Year

Fall Semester (15.33 Credits)

- EDEC 1020 - Introduction to Early Childhood Education *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HLTK 1620 - American Heart Association Heart Saver First Aid, CPR and AED *(.33CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
- POLS 1000 - American and Wyoming Government (CNST) *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Spring Semester (16 Credits)

- EDEC 1100 - Observation and Guidance of Young Children *(2CR)*
- EDEC 1105 - Observation and Guidance of Young Children Lab *(1CR)*
- EDEC 1200 - Administration in Early Childhood Programs *(3CR)*

- ENGL 1020 - English Composition II (COM1) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PSYC 2300 - Psychology of Child Development *(3CR)*

Sophomore Year
Fall Semester (14 Credits)

- EDEC 1030 - Infant and Toddler Care *(2CR)*
- EDEC 1035 - Infant and Toddler Care Lab *(1CR)*
- EDEC 1300 - Curriculum Planning and Development for Young Children *(2CR)*
- EDEC 1305 - Curriculum Planning and Development for Young Children Lab *(1CR)*
- EDEL 2100 - Family, School, and Community Engagement *(3CR)*
- FCSC 2122 - Child Development Lab *(1CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Spring Semester (15 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- EDEC 2200 - Early Childhood Practicum *(6CR)*
- EDEL 2280 - Literature for Children *(3CR)*
- FA 0000 - Fine Arts *(3CR)*

Total Program Credits (60.33 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

To obtain a degree in Early Childhood Education all major educational coursework must be passed with a "C" or better.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Economics, A.S.

Freshman Year
Fall Semester (16 credits)

- CMAP 1200 - Computer Information Systems *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- ECON 1020 - Microeconomics (SSC) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (15 credits)

- ECON 1010 - Macroeconomics (SSC) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- SSC 0000 - Social Science *(3CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
- MATH 2350 - Business Calculus (MATH) *(4CR)*

Sophomore Year
Fall Semester (16 credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- COM2 0000 - Oral Communication *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives (3CR) Choose from the following areas: ACCT, BADM, FIN, HOSP, IMGT, MGT, MKT
- STAT 2150 - Applied Statistical Methods of Data Analysis *(4CR)*

Spring Semester (14 credits)

- GEL 0000 - General Education Electives
- PEL 0000 - Program Electives (3CR) Choose from the following areas: ACCT, BADM, FIN, IMGT, HOSP, MGT, MKT
- MATH 2355 - Mathematical Applications for Business *(4CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Total Program Credits (61 Credits)

Note:
All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:
A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Electrical Apprentice Certificate

Semester 1 (5 credits)
- ELAP 1515 - Electrical Apprentice 1A *(5CR)*

Semester 2 (5 credits)
- ELAP 1525 - Electrical Apprentice 1B *(5CR)*

Semester 3 (5 credits)
- ELAP 1535 - Electrical Apprentice 2A *(5CR)*

Semester 4 (5 credits)
- ELAP 1545 - Electrical Apprentice 2B *(5CR)*

Semester 5 (5 credits)
- ELAP 1555 - Electrical Apprentice 3A *(5CR)*

Semester 6 (5 credits)
- ELAP 1565 - Electrical Apprentice 3B *(5CR)*

Semester 7 (5 credits)
- ELAP 1575 - Electrical Apprentice 4A *(5CR)*

Semester 8 (5 credits)
- ELAP 1585 - Electrical Apprentice 4B *(5CR)*

Program Total (40 credits)
Completion

Electronics Technology, A.A.S.

Freshman Year
Fall Semester (15-16 credits)
- ELTR 1570 - Electric Circuits *(4CR)*
- ELTR 1760 - Digital Electronics *(3CR)*
- CSCO 2000 - CCNA I Intro to Networks *(3CR)*
  or
- ELTR 2910 - Computer Networking *(3CR)*
- ELTR 1980 - Cooperative Work Experience (Electronics) *(1-8CR) (Max 8)*
- MATH 0000 - Math Computation *(3CR)*
  or
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Spring Semester (16 credits)
- ELTR 1700 - Solid State Devices *(4CR)*
- ELTR 1980 - Cooperative Work Experience (Electronics) *(1-8CR) (Max 8)*
- ELTR 2610 - Microcontrollers for Automation *(3CR)*
- ELTR 2840 - Motor Controls *(4CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- COM2 0000 - Oral Communication *(3CR)*

Sophomore Year
Fall Semester (14 credits)
- ELTR 2815 - Programmable Logic Controllers *(3CR)*
- ELTR 1980 - Cooperative Work Experience (Electronics) *(1-8CR) (Max 8)* 2CR
- ELTR 2870 - Security Systems *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*
- PEL 0000 - Program Electives 3CR

Spring Semester (15-16 credits)
- ELTR 2570 - Process Control *(3CR)*
- ELTR 1980 - Cooperative Work Experience (Electronics) *(1-8CR) (Max 8)* 2CR

- PEL 0000 - Program Electives 3CR
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- GEL 0000 - General Education Electives 3-4 CR

Total Program Credits (60-61 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Elementary Education, A.S.

Freshman Year

Fall Semester (16 Credits)

- EDFD 2020 - Foundations of Education *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- POLS 1000 - American and Wyoming Government (CNST) *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)* Choose from one of the following: GEOL 1070, LIFE 1020, or PHYS 1090

Spring Semester (17 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- EDEL 2100 - Family, School, and Community Engagement *(3CR)*
- EDEL 2140 - Literacy Foundations *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HLED 2006 - Health for Elementary Educators *(1CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 1100 - Number and Operations for Elementary School Teachers *(3CR)*

Sophomore Year

Fall Semester (16 Credits)

- EDFD 2100 - Educational Psychology *(3CR)*
- EDST 2250 - Educational Assessment *(3CR)*
- ITEC 2360 - Teaching and Learning with Educational Technology *(3CR)*
- MATH 1105 - Data, Probability and Algebra for Elementary School Teachers (MATH) *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)* Choose from one of the following: GEOL 1070, LIFE 1020, or PHYS 1090

Spring Semester (16 Credits)

- EDEL 2280 - Literature for Children *(3CR)*
- EDEX 2484 - Intro to Special Education *(3CR)*
- EDUC 2100 - Practicum in Teaching *(4CR)*
- HU 0000 - Humanities *(3CR)*
- PSYC 2300 - Psychology of Child Development *(3CR)*

Total Program Credits (65 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Emergency Medical Services - EMT Certificate

Certificate Requirements:

- EMS 1500 - Emergency Medical Technician
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- PEAC 1001 - Health & Wellness (HW) *(1CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

Total Program Credits (17 Credits)

Certificate Graduation Requirements

The normal length of this program is 9 months. For specific graduation requirements see "Degree Requirements".

Emergency Medical Services - Paramedicine Certificate

Prerequisite (9 Credits)

- EMS 1500 - Emergency Medical Technician

Freshman Year

Fall Semester (8 Credits)

- EMS 2600 - Paramedic I *(8CR)*

Spring Semester (11 Credits)

- EMS 2700 - Paramedic II *(8CR)*
- EMS 2971 - Paramedic Practicum Clinical II *(3CR)*

Sophomore Year

Fall Semester (13 Credits)

- EMS 2800 - Paramedic III *(8CR)*
- EMS 2974 - Paramedic Practicum Clinical III *(5CR)*

Spring Semester (8 Credits)

- EMS 2895 - Paramedic Capstone *(8CR)*

Total Program Credits 40 Credits (with Prerequisites 49 Credits)

Program Note:

The program has specific admission requirements in addition to general Casper College requirements. Students must maintain a GPA of at least 2. 0 and must earn a grade of "80% (B)" or better in all paramedic courses to progress to the subsequent semester.

Graduation Requirements:

For specific graduation requirements see "Degree Requirements".

Emergency Medical Services - Paramedicine, A.A.S.

Prerequisite (9 Credits)

- EMS 1500 - Emergency Medical Technician

Freshman Year

Fall Semester (15 Credits)

- EMS 2600 - Paramedic I *(8CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
  or
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

Spring Semester (18 Credits)

- EMS 2700 - Paramedic II *(8CR)*
- EMS 2971 - Paramedic Practicum Clinical II *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Sophomore Year

Fall Semester (16 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- EMS 2800 - Paramedic III *(8CR)*
- EMS 2974 - Paramedic Practicum Clinical III *(5CR)*

Spring Semester (12 Credits)

- EMS 2895 - Paramedic Capstone *(8CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
- PEAC 1001 - Health & Wellness (HW) *(1CR)*

Total Program Credits: 61 Credits (with Prerequisites 70 Credits)

Program Note:

The program has specific admission requirements in addition to general Casper College requirements. Students must maintain a GPA of at least 2.0 and must earn a grade of

"80% (B)" or better in all paramedic courses in order to progress to the subsequent semester.

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Emergency Medical Services - Paramedicine, A.S.

Prerequisite Courses (9 Credits)

- EMS 1500 - Emergency Medical Technician

Freshman Year

Fall Semester (22 Credits)

- EMS 2600 - Paramedic I *(8CR)*
- FA 0000 - Fine Arts *(3CR)*
- HLTK 1200 - Medical Terminology *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Spring Semester (21 Credits)

- EMS 2700 - Paramedic II *(8CR)*
- EMS 2971 - Paramedic Practicum Clinical II *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
  or
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

Sophomore Year

Fall Semester (22 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- EMS 2800 - Paramedic III *(8CR)*
- EMS 2974 - Paramedic Practicum Clinical III *(5CR)*
- HU 0000 - Humanities *(3CR)*

Spring Semester (13 Credits)

- CHEM 1000 - Intro to Chemistry *(4CR)*
- EMS 2895 - Paramedic Capstone *(8CR)*
- HW 0000 - Health and Wellness *(1CR)*

Total Program Credits (78 Credits) (With prerequisites Total 87 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

The program has specific admission requirements in addition to general Casper College requirements. Students must maintain a GPA of at least 2.0 and must earn a grade of "80% (B)" or better in all paramedic courses in order to progress to the subsequent semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Engineering Technology and Design Certificate

Fall Semester (15 credits)

- ENTK 1060 - Excel Technical Applications *(3CR)*
- ENTK 1500 - Engineering Graphics *(4CR)*
- ES 1000 - Orientation to Engineering Study *(1CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- PEL 0000 - Program Electives (3CR)

Spring Semester (15 credits)

- ENTK 2010 - CAD 3D Modeling and Mechanical Design I *(4CR)*
- MANF 2525 - Design and Manufacturing Methods *(4CR)*
- PHYS 1050 - Concepts of Physics (SCI) *(4CR)*
- PEL 0000 - Program Electives (3CR)
  Program Electives (minimum 6 credits)

Approved elective prefixes; CE, CHEM, CNTK, ELTR, ENTK, ES, MATH, MCHT, PHYS, WELD

Total Program Credits (30 credits)

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Engineering Technology and Design, A.A.S.

Freshman Year

Fall Semester (17 credits)

- ENTK 1060 - Excel Technical Applications *(3CR)*
- ENTK 1500 - Engineering Graphics *(4CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- PEL 0000 - Program Electives (3CR) Approved electives: ENTK, ART, CNTK, ELTR, MCHT, MANF, WELD, BADM, MKT, ACCT, MATH, or Lab Science
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*

Spring Semester (15 credits)

- ENTK 1021 - Descriptive Geometry *(3CR)*
- ENTK 1710 - Architectural Drafting I *(4CR)*
- ENTK 2010 - CAD 3D Modeling and Mechanical Design I *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
  or
- PHYS 1050 - Concepts of Physics (SCI) *(4CR)*

Sophomore Year

Fall Semester (16 credits)

- ENTK 2020 - CAD 3D Modeling and Mechanical Design II *(4CR)*
- ENTK 2550 - Civil Drafting I *(4CR)*
- ENTK 2600 - Construction Documents *(4CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*

Spring Semester (15 credits)

- ENTK 1010 - Elements of Surveying *(3CR)*
- ENTK 1720 - Architectural Drafting II *(4CR)*
- ENTK 2030 - Cad 3D Modeling and Mechanical Design III *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Total Program Credits (63 credits)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Note:

The normal length of this program is two academic years at 15-17 credit hours per semester.

To obtain a degree or certificate a student must obtain a grade of "C" or better in all major requirements.

Engineering, A.S.

Freshman Year

Fall Semester (17-18 Credits)

- CHEM 1020 - General Chemistry I *(4CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- ES 1101 - FYS:Introduction to Engineering Study *(3CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 0000 - Math Computation *(3CR)* (Strongly recommend MATH 2200 Calculus I)

Spring Semester (16 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ES 1060 - Intro to Engineering Problem Solving *(3CR)*
- ES 2110 - Statics *(3CR)*

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 2205 - Calculus II *(4CR)*

Sophomore Year

Fall Semester (17 Credits)

- PHYS 1310 - College Physics I (SCI) *(4CR)*
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives (10CR) from the program elective list below

Spring Semester (16 Credits)

- HW 0000 - Health and Wellness *(1CR)*
- SSC 0000 - Social Science *(3CR)*
- PEL 0000 - Program Electives (12 Credits) from the program elective list below

Program Electives

- CHEM 1030 - General Chemistry II *(4CR)*
- CHEM 2300 - Intro to Organic Chemistry *(4CR)*
- COSC 1030 - Computer Programming
- ENTK 1500 - Engineering Graphics *(4CR)*
- ENTK 2010 - CAD 3D Modeling and Mechanical Design I *(4CR)*
- ES 1040 - A Gamer's Road to Engineering *(3CR)*
- ES 2120 - Dynamics *(3CR)*
- ES 2210 - Electric Circuit Analysis *(4CR)*
- ES 2410 - Mechanics of Materials I *(3CR)*
- ES 2310 - Thermodynamics *(3CR)*
- ES 2330 - Fluid Dynamics *(3CR)*
- MATH 1450 - Algebra and Trigonometry (MATH) *(5CR)*
- MATH 2210 - Calculus III *(4CR)*
- MATH 2250 - Elementary Linear Algebra *(3CR)*
- PHYS 1320 - College Physics II *(4CR)*
- PHYS 2310 - Physics III: Waves and Optics *(4CR)*

Total Program Credits (66-67 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

To obtain a degree in engineering, a student must obtain a grade of "C" or better in all major requirements.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

English, A.A.

English, A.A.: Writing Emphasis

Freshman Year

Fall Semester (17-18 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- ENGL 2310 - American Literature I (HU) *(3CR)*
  Must take both ENGL 2310 American Literature I and ENGL 2210 English Literature I. Additional survey must be either ENGL 2320 American Literature II OR ENGL 2220 English Literature II.
- HW 0000 - Health and Wellness *(1CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- WL 0000 - World Language *(4CR)* (It must be the same language. ASL does not meet program requirements)

Spring Semester (20 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- ENGL 2320 - American Literature II (HU) *(3CR)*
  Majors must take either ENGL 2320 or ENGL 2220
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- SSC 0000 - Social Science *(3CR)*

- WL 0000 - World Language *(4CR)* (It must be the same language. ASL does not meet program requirements)

Sophomore Year

Fall Semester (15 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- ENGL 2210 - English Literature I (HU) *(3CR)*
  Must take both ENGL 2310 and ENGL 2210. Additional Survey must be ENGL 2320 or ENGL 2220.
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives (6CR)(Must be Writing 2000 level or above, or COMM 2100 Media Writing)

Spring Semester (12 Credits)

- HU 0000 - Humanities *(3CR)*
- PEL 0000 - Program Electives (9CR) (Any course from COMM or ENGL)

Total Program Credits (64-65 Credits)

English, A.A.: Literature Emphasis

Freshman Year

Fall Semester (17-18 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- ENGL 2310 - American Literature I (HU) *(3CR)*
  Must take both ENGL 2310 and ENGL 2210. Additional Survey must either be ENGL 2320 or ENGL 2220
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- WL 0000 - World Language *(4CR)* (It must be the same language. ASL does not meet program requirements)

Spring Semester (17 Credits)

- ENGL 1020 - English Composition II (COM1) *(3CR)*
- ENGL 2320 - American Literature II (HU) *(3CR)* Majors must take either ENGL 2320 or ENGL 2220.
- PEL 0000 - Program Electives (Must be Literature or Writing course 2000 level or above) (3CR)
- SSC 0000 - Social Science *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- WL 0000 - World Language *(4CR)* (It must be the same language. ASL does not meet program requirements)

Sophomore Year

Fall Semester (15 Credits)

- ENGL 2210 - English Literature I (HU) *(3CR)*
  Must take both ENGL 2310 American Literature I AND ENGL 2210 English Literature I. Additional survey must be either ENGL 2320 American Literature II OR ENGL 2220 English Literature II.
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives (6CR) One additional literature or writing course (2000 level)

Spring Semester (12 Credits)

- HU 0000 - Humanities *(3CR)*
- PEL 0000 - Program Electives (9CR) (Must be COMM or ENGL)

Total Program Credits (61-62 Credits)

English, A.A.: Secondary Education Emphasis

Freshman Year

Fall Semester (16 Credits)

- EDFD 2020 - Foundations of Education *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- ENGL 2310 - American Literature I (HU) *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- WL 0000 - World Language *(4CR)*

Spring Semester (17-18 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*

or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- WL 0000 - World Language *(4CR)*

Sophomore Year
Fall Semester (15 Credits)
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- EDFD 2100 - Educational Psychology *(3CR)*
- ENGL 2210 - English Literature I (HU) *(3CR)*
- ITEC 2360 - Teaching and Learning with Educational Technology *(3CR)*
- FA 0000 - Fine Arts *(3CR)*

Spring Semester (14 Credits)
- EDUC 2100 - Practicum in Teaching *(4CR)*
- EDST 2250 - Educational Assessment *(3CR)*
- EDEX 2484 - Intro to Special Education *(3CR)*
- HU 0000 - Humanities *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Total Program Credits (62-63 Credits)
Note:
All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:
A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Entrepreneurship Certificate
Fall Semester (16 Credits)
- ACCT 1005 - Practical Accounting *(4CR)*
- BADM 1000 - Intro to Business *(3CR)*
- BADM 1020 - Business Communications (COM1) *(3CR)*
- BADM 2195 - Entrepreneurship *(3CR)*
- MGT 2100 - Principles of Management *(3CR)*

Spring Semester (15 Credits)
- BADM 1025 - Small Business Finance *(3CR)*
- BADM 2010 - Legal Environment of Business
- BADM 2030 - Business Ethics *(3CR)*
- ECON 1020 - Microeconomics (SSC) *(3CR)*
- MKT 2100 - Principles of Marketing *(3CR)*

Total Certificate Credits (31 Credits)
Certificate Graduation Requirements
The normal length of this program is 9 months. For specific graduation requirements see "Degree Requirements".

Entrepreneurship, A.A.S.
Freshman Year
Fall Semester (16 credits)
- BADM 1000 - Intro to Business *(3CR)*
- BADM 1020 - Business Communications (COM1) *(3CR)*
- CMAP 1200 - Computer Information Systems *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (16 credits)
- ACCT 2010 - Principles of Accounting I *(4CR)*
  or
- ACCT 1005 - Practical Accounting *(4CR)*
- ECON 1020 - Microeconomics (SSC) *(3CR)*
- MGT 2100 - Principles of Management *(3CR)*
- MKT 2100 - Principles of Marketing *(3CR)*
- PEL 0000 - Program Electives

Sophomore Year
Fall Semester (14 credits)
- ACCT 2020 - Principles of Accounting II *(4CR)*

- ACCT 2510 - Accounting for Bookkeepers *(4CR)*
- BADM 2195 - Entrepreneurship *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- IMGT 2400 - Introduction to Information Management *(3CR)*

Spring Semester (14 credits)

- BADM 2010 - Legal Environment of Business
- BADM 1025 - Small Business Finance *(3CR)*
- BADM 2100 - Small Business Practices *(2CR)*
  or
- BADM 2045 - Nonprofit Leadership *(2CR)*
  or
- BADM 2090 - Creative Professions *(2CR)*
- PEL 0000 - Program Electives

Total Program Credits (60 credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Environmental Science, A.S.

Freshman Year

Fall Semester (15 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- ENR 1200 - Environment (SCI) *(4CR)*
- FA 0000 - Fine Arts *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (14 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- CHEM 1000 - Intro to Chemistry *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- ENR 2000 - Environment and Society *(3CR)*

Sophomore Year

Spring Semester (15 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- PEL 0000 - Program Electives
- SSC 0000 - Social Science *(3CR)*

Fall Semester (16 Credits)

- BIOL 2400 - General Ecology *(3CR)*
- HU 0000 - Humanities *(3CR)*
- PEL 0000 - Program Electives

Program Electives

- AECL 1000 - Agroecology *(4CR)*
- BIOL 2022 - Animal Biology *(4CR)*
- BIOL 2023 - Plant and Fungal Biology *(4CR)*
- BIOL 2111 - Wildlife Techniques *(4CR)*
- BIOL 2120 - Biomedical and Environmental Ethics *(3CR)*
- BIOL 2410 - Intro to Field Ecology *(2CR)*
- COSC 1010 - Computational Thinking and Programming
- ENR 2110 - The Greater Yellowstone *(3CR)*
- ENTO 1001 - Insect Biology *(4CR)*
- FCSC 1141 - Principles of Nutrition (SCI Elective) *(3CR)*
- GIST 1060 - Introduction to Remote Sensing and Drones *(3CR)*
- GIST 1080 - Introduction to GPS and Maps *(3CR)*
- GIST 1100 - Introduction to GIS *(4CR)*
- GEOL 1070 - The Earth: Its Physical Environment (SCI) *(4CR)*
- GEOL 1100 - Physical Geology (SCI) *(4CR)*

- GEOL 2030 - Introduction to Hydrology *(3CR)*
- GEOL 2070 - Oceanography *(4CR)*
- GEOL 2320 - Petroleum Geology *(4CR)*
- MOLB 2210 - General Microbiology *(4CR)*
- MOLB 2220 - Pathogenic Microbiology *(4CR)*
- REWM 2000 - Principles of Range Management *(3CR)*
- SOIL 2010 - Introduction to Soil Science *(4CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*
- ZOO 2450 - Fish and Wildlife Management in the Anthropocene *(4CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Equine Assisted Therapy Certificate

Total Program Credits (12 Credits)

- HLTK 1860 - Introduction to Human Disease *(3CR)*
- HLTK 1865 - Equine Assisted Therapy Practicum *(3CR)*
- HLTK 1870 - Professionalism in Healthcare *(3CR)*
  or
- HLTK 2560 - The Interprofessional Health Care Team *(3CR)* (for those students that have completed COTA 2420)
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

Note:

The normal length of this program is 16 weeks.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Fine Art, A.F.A.

Freshman Year

Fall Semester (16 Credits)

- ART 1005 - Drawing I (FA) *(3CR)*
- ART 1120 - Foundation: Three Dimensional (FA) *(3CR)*
- ART 1130 - Foundation: Color Theory *(3CR)*
- ART 2010 - Art History I (HU) *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Spring Semester (15 -16 Credits)

- ART 1110 - Foundation: Two-Dimensional *(3CR)*
- ART 2005 - Drawing II *(3CR)*
- ART 2020 - Art History II (HU) *(3CR)*
- ART 2310 - Sculpture I (FA) *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
  or
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Sophomore Year

Fall Semester (15 Credits)

- ART 1115 - Digital Media (FA) *(3CR)*
- ART 1150 - Black and White Film Photography I (FA) *(3CR)*
- ART 2035 - Art History: The Enlightenment to Postmodern Art
- ART 2090 - Printmaking (FA) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or

- SSC 0000 - Social Science *(3CR)*

Spring Semester (16 Credits)

- ART 2141 - Professional Practice in the Arts *(1CR)*
- ART 2210 - Painting I (FA) *(3CR)*
- ART 2410 - Ceramics I (FA) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- GEL 0000 - General Education Electives

Total Program Credits (62-63 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Fire Science Technology Certificate

Fall Semester (15 credits minimum)

- FIRE 1500 - Introduction to Fire Science *(3CR)*
- FIRE 1670 - Basic Emergency Care/First Responder *(3CR)*
- FIRE 1760 - Building Construction *(3CR)*
- FIRE 1810 - Introduction to Wildland Fire Fighting *(3CR)*
- FIRE 2515 - Advanced Firefighting *(3CR)*
- FIRE 2530 - Hazardous Materials *(3CR)*
- FIRE 2560 - Apparatus and Procedures *(3CR)*

Spring Semester (15 credits minimum)

- FIRE 1510 - Fire Fighting Strategy and Tactics I *(3CR)*
- FIRE 1520 - Fire Fighting Strategy and Tactics II *(3CR)*
- FIRE 1550 - Causes and Investigation *(3CR)*
- FIRE 1700 - Fundamentals of Fire Prevention *(3CR)*
- FIRE 1818 - Wildland Leadership *(3CR)*
- FIRE 1830 - Intermediate Wildland Fire Behavior *(3CR)*
- FIRE 2525 - Rescue Practices for the Fire Service *(3CR)*
- FIRE 2570 - Managing Fire Service *(3CR)*
- FIRE 2960 - Firefighter Development *(3CR)*
- FIRE 2970 - Fire Service Field Internship *(3CR)*

Program Total (30 credits)

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Fire Science Technology, A.A.S.

Freshman Year

Fall Semester (15 credits)

- FIRE 1500 - Introduction to Fire Science *(3CR)*
- FIRE 1510 - Fire Fighting Strategy and Tactics I *(3CR)*
- FIRE 1670 - Basic Emergency Care/First Responder *(3CR)*
- FIRE 1700 - Fundamentals of Fire Prevention *(3CR)*
- FIRE 1810 - Introduction to Wildland Fire Fighting *(3CR)*
- FIRE 2515 - Advanced Firefighting *(3CR)*
- FIRE 2530 - Hazardous Materials *(3CR)*
- FIRE 2570 - Managing Fire Service *(3CR)*
- FIRE 2970 - Fire Service Field Internship *(3CR)*

Spring Semester (16 credits)

- FIRE 1510 - Fire Fighting Strategy and Tactics I *(3CR)*
- FIRE 1520 - Fire Fighting Strategy and Tactics II *(3CR)*
- FIRE 1550 - Causes and Investigation *(3CR)*

- FIRE 1700 - Fundamentals of Fire Prevention *(3CR)*
- FIRE 1760 - Building Construction *(3CR)*
- FIRE 2525 - Rescue Practices for the Fire Service *(3CR)*
- FIRE 2960 - Firefighter Development *(3CR)*
- FIRE 2970 - Fire Service Field Internship *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Sophomore Year

Fall Semester (16-17 credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
  or
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- GEL 0000 - General Education Electives

Spring Semester (13 credits)

- PEL 0000 - Program Electives (13CR)
  EMS 1500 recommended
  include 3CR of any FIRE course

Program Total (60 credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Forensic Science, A.S.

Freshman Year

Fall Semester (15 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- CRMJ 1001 - Intro to Criminal Justice (SSC) *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (16 Credits)

- CHEM 1000 - Intro to Chemistry *(4CR)*
  or
- CHEM 1020 - General Chemistry I *(4CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- CRMJ 2230 - Law of Evidence
- GEL 0000 - General Education Electives (3CR)
- POLS 1000 - American and Wyoming Government (CNST) *(3CR)*

Sophomore Year

Fall Semester (14 Credits)

- CHEM 2300 - Intro to Organic Chemistry *(4CR)*
- CRMJ 2130 - Criminal Investigation I *(3CR)*
- HU 0000 - Humanities *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

Spring Semester (15 Credits)

- CRMJ 2570 - Criminalistics *(3CR)*
- PEL 0000 - Program Electives (9CR)
  Selected with advisor
- FA 0000 - Fine Arts *(3CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation

requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Foundations of Interprofessional Health Care Certificate

Fall Semester (12 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HLTK 1500 - Introduction to Health Care and Services *(2CR)*
- HMDV 1300 - On Course *(2CR)*
- PEL 0000 - Program Electives (5CR)

Spring Semester (12 Credits)

- COMM 1030 - Interpersonal Communication *(3CR)*
- HLTK 2560 - The Interprofessional Health Care Team *(3CR)*
- PEL 0000 - Program Electives (6CR)

Approved Electives (11 Credits)

- ANTH 1200 - Intro to Cultural Anthropology (SSC) *(3CR)*
- HLTK 1000 - Principles of Healthcare Calculations *(2CR)*
- HLTK 1200 - Medical Terminology *(3CR)*
- HLTK 1860 - Introduction to Human Disease *(3CR)*
- HLTK 1870 - Professionalism in Healthcare *(3CR)*
- HLTK 2400 - Complementary and Alternative Therapies (CAT) and Nursing *(3CR)*
- HLTK 2550 - Understanding the Economics, Ethics, and Policies Influencing Health Care *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- PSYC 2155 - Motivational Interviewing *(3CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

Total Program Credits (24 Credits)

Certificate Graduation Requirements

The normal length of this program is 9 months.

For specific graduation requirements see "Degree Requirements".

Gender and Women's Studies, A.A.

Freshman Year

Fall Semester (16 - 17 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- GWST 1080 - Introduction to Gender and Women's Studies (HU) *(3CR)*
- WL 0000 - World Language *(4CR)*

Spring Semester (16 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- WL 0000 - World Language *(4CR)*

Sophomore Year

Fall Semester (15 Credits)

- ANTH 1200 - Intro to Cultural Anthropology (SSC) *(3CR)*
- ENGL 2270 - Modern Women Writers *(3CR)*
- PSYC 2200 - Human Sexuality *(3CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- SSC 0000 - Social Science *(3CR)*

Spring Semester (14 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- COMM 2135 - Gender, Communication and Culture *(3CR)*
- HU 0000 - Humanities *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- SOC 2325 - Marriage and Family *(3CR)*

Total Program Credits (61 - 62 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

General Agriculture, A.A.S.

Freshman Year

Fall Semester (15 Credits)

- AGEC 1010 - Agricultural Macroeconomics (SSC) *(3CR)*
- AGRI 1010 - Computer Technology in Agriculture *(2CR)*
- AGRI 1101 - Freshman Experience *(2CR)*
- ANSC 1010 - Intro to Animal Science *(4CR)*
- BIOL 1000 - Principles of Biology (SCI) *(4CR)*

Spring Semester (16 Credits)

- AECL 1000 - Agroecology *(4CR)*
- AGEC 1020 - Agricultural Microeconomics (SSC) *(3CR)*
- AGEC 2300 - Agricultural Marketing *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives (2CR)
  Program electives can be chosen from any class with the prefixes: AGRI, AGEC, AGTK, ANSC, FDSC, REWN

Sophomore Year

Fall Semester (16 Credits)

- AGEC 2010 - Farm-Ranch Business Records *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- FDSC 2040 - Principles of Meat Animal Evaluation *(3CR)*
- PEL 0000 - Program Electives
  Program electives can be chosen from any class with the prefixes: AGRI, AGEC, AGTK, ANSC, FDSC, REWN
- SOIL 2010 - Introduction to Soil Science *(4CR)*

Spring Semester (13 Credits)

- AGEC 2020 - Farm-Ranch Business Management *(4CR)*
- ANSC 2020 - Feeds and Feeding *(4CR)*
- PEL 0000 - Program Electives (5CR)
  Program electives can be chosen from any class with the prefixes: AGRI, AGEC, AGTK, ANSC, FDSC, REWN

Total Program Credits (60 Credits)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

General Studies, A.A.

Freshman Year

Fall Semester (15 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
- SSC 0000 - Social Science *(3CR)*

Spring Semester (16 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

- PEL 0000 - Program Electives (9CR) (31 CR) total program electives are to be chosen in consultation with an advisor, of which (9 CR) must come from humanities, social science, fine arts, and communications.

Sophomore Year
Fall Semester (16 Credits)
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives (10CR) (31 CR) total program electives are to be chosen in consultation with an advisor, of which (9 CR) must come from humanities, social science, fine arts, and communications.

Spring Semester (13 Credits)
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives (12CR) (31 CR) total program electives are to be chosen in consultation with an advisor, of which (9 CR) must come from humanities, social science, fine arts, and communications.

Total Program Credits (60 Credits)
Note:
All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:
A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

General Studies, A.S.
Freshman Year
Fall Semester (14 Credits)
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)* (or higher)

Spring Semester (16 Credits)
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- PEL 0000 - Program Electives (9CR) Program studies courses (31 CR) - Should be chosen in consultation with an academic advisor. Consider the requirements of the institution to which you will transfer, and your personal goals.

Sophomore Year
Fall Semester (15 Credits)
- SSC 0000 - Social Science *(3CR)*
- GEL 0000 - General Education Electives
- PEL 0000 - Program Electives (9CR) Program studies courses (31 CR Total) - Should be chosen in consultation with an academic advisor. Consider the requirements of the institution to which you will transfer, and your personal goals.

Spring Semester (16 Credits)
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives (13CR Total)
  Program studies courses (31 CR) - Should be chosen in consultation with an academic advisor. Consider the requirements of the institution to which you will transfer, and your personal goals.
  (3CR) One additional course is to be chosen from ADDN, ANSC, ASTR, BIOL, CHEM, COSC, FCSC, GEOG, GEOL, MOLB, PHYS, POLS, PSYC, SOC, STAT, or ZOO.

Total Program Credits (61 Credits)
Note:
All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:
A minimum of 60 approved semester credits are required for graduation. For specific graduation

requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Geographic Information Systems Certificate

Fall Semester (7 Credits)

- GIST 1080 - Introduction to GPS and Maps *(3CR)*
- GIST 1100 - Introduction to GIS *(4CR)*

Spring Semester (11 Credits)

- GIST 1110 - Management and Implementation of GIS *(4CR)*
- GIST 2100 - Advanced GIS *(4CR)*
- GIST 2150 - Map Use and Analysis *(3CR)*

Total Certificate Credits (18 CR)

Note:

The normal length of this program is 9 months.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Geographic Information Systems, A.S.

Freshman Year

Fall Semester (16 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- GIST 1080 - Introduction to GPS and Maps *(3CR)*
- GIST 1100 - Introduction to GIS *(4CR)*
- MATH 0000 - Math Computation *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*

Spring Semester (15 Credits)

- GIST 1110 - Management and Implementation of GIS *(4CR)*
- HU 0000 - Humanities *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- COM2 0000 - Oral Communication *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Sophomore Year

Fall Semester (14 Credits)

- SSC 0000 - Social Science *(3CR)*
- GIST 2100 - Advanced GIS *(4CR)*
- PEL 0000 - Program Electives (4CR)
- FA 0000 - Fine Arts *(3CR)*

Spring Semester (15 Credits)

- GEL 0000 - General Education Electives (3CR)
- GIST 2150 - Map Use and Analysis *(3CR)*
- PEL 0000 - Program Electives (9CR)
  Program Electives
  Students should select a minimum of 11 credits from the following prefixes, COSC and GEOG, or courses listed below to satisfy their area of expertise. Electives to be selected in consultation with an advisor.
- AGRI 1020 - GPS and GIS in Agriculture *(2CR)*
- CMAP 1815 - Database Applications *(3CR)*
- COSC 1010 - Computational Thinking and Programming
- COSC 1030 - Computer Programming
- COSC 2030 - Data Structures
- ES 1060 - Intro to Engineering Problem Solving *(3CR)*
- ENTK 1010 - Elements of Surveying *(3CR)*
- ENTK 1500 - Engineering Graphics *(4CR)*
- ENTK 2550 - Civil Drafting I *(4CR)*
- GEOG 1000 - World Regional Geography (SSC) *(3CR)*
- GEOG 1050 - Introduction to Environmental and Natural Resources *(3CR)*
- GIST 1060 - Introduction to Remote Sensing and Drones *(3CR)*
- GIST 2480 - GIS Cooperative Work Experience *(1-8CR) (Max. 8)*
- GEOL 1100 - Physical Geology (SCI) *(4CR)*
- GEOL 2150 - Geomorphology *(4CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this

program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Geology, A.S.

Freshman Year

Fall Semester (18 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- GEOL 1100 - Physical Geology (SCI) *(4CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- PEL 0000 - Program Electives (3CR)
- GEOL 1010 - DEEP Impact *(1-3CR)*

Spring Semester (16 or 17 Credits)

- HW 0000 - Health and Wellness *(1CR)*
- COM2 0000 - Oral Communication *(3CR)*
- GEOL 2010 - Mineralogy *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
- SSC 0000 - Social Science *(3CR)*
- GEOL 2000 - Geochemical Cycles and the Earth System *(4CR)*
  or
- GEOL 2050 - Principles of Paleontology *(3CR)*

Sophomore Year

Fall Semester (15 Credits)

- CHEM 1020 - General Chemistry I *(4CR)*
- GEOL 2100 - Stratigraphy and Sedimentation *(4CR)*
- HU 0000 - Humanities *(3CR)*
- PEL 0000 - Program Electives (4CR)

Spring Semester (13 Credits)

- FA 0000 - Fine Arts *(3CR)*
- GEOL 2320 - Petroleum Geology *(4CR)*
- PEL 0000 - Program Electives (7CR)

Program Electives

- ATSC 2000 - Intro to Meteorology *(4CR)*
- CHEM 1030 - General Chemistry II *(4CR)*
- GEOG - Any geography course
- GEOL - Any geology course
- MATH 2200 - Calculus I (MATH) *(4CR)*
- MATH 2205 - Calculus II *(4CR)*
- MATH 2210 - Calculus III *(4CR)*
- MATH 2250 - Elementary Linear Algebra *(3CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*
  or
- PHYS 1310 - College Physics I (SCI) *(4CR)*
- STAT - Any statistics course
- Other appropriate courses approved by advisor

Total Program Credits 62-63

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Note:

The normal length of this program is two academic years at 16-18 credit hours per semester.

To obtain a degree in geology, a student must obtain a grade of "C" or better in all major requirements.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Gerontology Certificate

Total Certificate Credits (12 Credits)

- HLTK 1860 - Introduction to Human Disease *(3CR)*
- HLTK 1870 - Professionalism in Healthcare *(3CR)*
  or
- HLTK 2560 - The Interprofessional Health Care Team *(3CR)* (for those students that have completed COTA 2420)
- HLTK 1875 - Gerontology Practicum *(3CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

Note:

The normal length of this program is 16 weeks.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Graphic Design Certificate

First Semester (12 Credits)

- ART 1115 - Digital Media (FA) *(3CR)*
- ART 1130 - Foundation: Color Theory *(3CR)*
- ART 2110 - Typography *(3CR)*
- PEL 0000 - Program Electives (3CR)

Second Semester (12 Credits)

- ART 1005 - Drawing I (FA) *(3CR)*
- ART 1110 - Foundation: Two-Dimensional *(3CR)*
- ART 2112 - Graphic Design I *(3CR)*
- ART 2145 - Digital Photography I(FA) *(3CR)*

Third Semester (7 Credits)

- ART 2125 - Graphic Design II *(3CR)*
- ART 2130 - Graphic Design III *(3CR)*
- ART 2395 - Art Portfolio *(1CR)*

Total Certificate Credits (31 Credits)

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Graphic Design, A.F.A.

Freshman Year

Fall Semester (15 Credits)

- ART 1005 - Drawing I (FA) *(3CR)*
- ART 1110 - Foundation: Two-Dimensional *(3CR)*
- ART 1115 - Digital Media (FA) *(3CR)*
- ART 2010 - Art History I (HU) *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*

Spring Semester (15 Credits)

- ART 2110 - Typography *(3CR)*
- ART 1130 - Foundation: Color Theory *(3CR)*
- ART 2020 - Art History II (HU) *(3CR)*
- COM2 0000 - Oral Communication *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*

Sophomore Year

Fall Semester (16 -17 Credits)

- ART 2112 - Graphic Design I *(3CR)*
- ART 1120 - Foundation: Three Dimensional (FA) *(3CR)*
- ART 2035 - Art History: The Enlightenment to Postmodern Art
- ART 2145 - Digital Photography I(FA) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 0000 - Math Computation *(3CR)*
  or
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Spring Semester (17 Credits)

- ART 2125 - Graphic Design II *(3CR)*
- ART 2130 - Graphic Design III *(3CR)*
- ART 2141 - Professional Practice in the Arts *(1CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- GEL 0000 - General Education Electives (3CR)
- PEL 0000 - Program Electives (4CR) any course with ART prefix

Total Program Credits (63-64 Credits)

Note:
The normal length of this program is two academic years at 16-18 credit hours per semester.

Graduation Requirements:
A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Health Science, A.S.

Freshman Year

Fall Semester (14-15 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HLTK 1200 - Medical Terminology *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 0000 - Math Computation *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

Spring Semester (16 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- SSC 0000 - Social Science *(3CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Sophomore Year

Fall Semester (15 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HLTK 1500 - Introduction to Health Care and Services *(2CR)*
- PEL 0000 - Program Electives

Spring Semester (15 Credits)

- GEL 0000 - General Education Electives
- HLTK 2560 - The Interprofessional Health Care Team *(3CR)*
- PEL 0000 - Program Electives

Approved Electives

- ANTH 1100 - Intro to Biological Anthropology *(3CR)*
  or
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- CHEM 1000 - Intro to Chemistry *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- CMAP 1505 - Introduction to Computers *(1CR)*
- CMAP 1550 - E-Portfolio Development *(1CR)*
- COTA 2300 - Fieldwork Integration I *(2CR)*
- EMS 1500 - Emergency Medical Technician
- FCSC 1141 - Principles of Nutrition (SCI Elective) *(3CR)*
- HLED 1006 - Personal Health *(3CR)*
- HLTK 1000 - Principles of Healthcare Calculations *(2CR)*
- HLTK 1300 - Nursing Boot Camp *(1CR)*
- HLTK 1625 - American Heart Association BLS for the Provider *(.33CR)*
- HLTK 1855 - Assistive Technology Practicum *(3CR)*
- HLTK 1860 - Introduction to Human Disease *(3CR)*
- HLTK 1865 - Equine Assisted Therapy Practicum *(3CR)*
- HLTK 1870 - Professionalism in Healthcare *(3CR)*
- HLTK 1875 - Gerontology Practicum *(3CR)*
- HLTK 2400 - Complementary and Alternative Therapies (CAT) and Nursing *(3CR)*
- HLTK 2550 - Understanding the Economics, Ethics, and Policies Influencing Health Care *(3CR)*
- HMDV 1300 - On Course *(2CR)*
- KIN 1004 - Introduction to Kinesiology and Health Promotion *(2CR)*

- KIN 2030 - Motor Learning *(3CR)*
- KIN 1052 - Introduction to Athletic Training *(3CR)*
- KIN 2052 - Prevention and Care of Athletic Injuries *(3CR)*
- KIN 2130 - Directed Study in Human Prosection *(3CR)*
- KIN 2135 - Personal Trainer Education *(3CR)*
- KIN 2136 - Sports Nutrition *(3CR)*
- MOLB 2210 - General Microbiology *(4CR)*
  or
- MOLB 2240 - Medical Microbiology *(4CR)*
- NURS 1510 - Nursing Assistant *(4CR)*
- OCTH 2000 - Introduction to Occupational Therapy *(2CR)*
- PEPR 2091 - Sports Officiating I *(2CR)*
- PEPR 2100 - Theory of Coaching: *(2CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- PSYC 2300 - Psychology of Child Development *(3CR)*
- RDTK 1500 - Introduction to Radiologic Technology *(1CR)*
- RDTK 2200 - Sectional Anatomy *(3CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*
- ZOO 2140 - Cadaver Anatomy *(4CR)*

Total Program Credits (60-61 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

History, A.A.

Freshman Year

Fall Semester (16 - 17 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HIST 1211 - United States to 1865 (CNST) *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- WL 0000 - World Language *(4CR)*

Spring Semester (14 Credits)

- HIST 1221 - United States from 1865 (CNST) *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- POLS 1000 - American and Wyoming Government (CNST) *(3CR)*
- WL 0000 - World Language *(4CR)*

Sophomore Year

Fall Semester (16 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- PEL 0000 - Program Electives (6CR)
- HIST 1110 - Western Civilization I (HU) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Spring Semester (15 Credits)

- HIST 1120 - Western Civilization II (HU) *(3CR)*
- HIST 1251 - Wyoming History (CNST) *(3CR)*
- PEL 0000 - Program Electives (6CR)
- SSC 0000 - Social Science *(3CR)*

Total Program Credits (61 - 62 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Industrial Electronics Certificate

Freshman Year

Fall Semester (6 credits)

- ELTR 2925 - Fiber Optics *(4CR)*

Spring Semester (8 credits)

- ELTR 1570 - Electric Circuits *(4CR)*
- ELTR 2840 - Motor Controls *(4CR)*

Sophomore Year

Fall Semester (6 credits)

- ELTR 1760 - Digital Electronics *(3CR)*
- ELTR 2815 - Programmable Logic Controllers *(3CR)*

Spring Semester (7 credits)

- ELTR 2570 - Process Control *(3CR)*
- PEL 0000 - Program Electives (4CR)

Program Total (27 credits)

Note:

This program can be completed in the course of two years.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

International Studies, A.A.

Freshman Year

Fall Semester (17 - 18 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- INST 2350 - Introduction to Global Studies *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- WL 0000 - World Language *(4CR)*

Spring Semester (15 Credits)

- ANTH 1200 - Intro to Cultural Anthropology (SSC) *(3CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- POLS 1250 - Introduction to Comparative Government *(3CR)*
- POLS 2310 - Intro to International Relations (HU) *(3CR)*

Sophomore Year

Fall Semester (15 Credits)

- ECON 1010 - Macroeconomics (SSC) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives
- POLS 1000 - American and Wyoming Government (CNST) *(3CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

Spring Semester (13 - 14 Credits)

- GEOG 1000 - World Regional Geography (SSC) *(3CR)*
- HIST 1110 - Western Civilization I (HU) *(3CR)*
- HIST 1120 - Western Civilization II (HU) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives

Total Program Credits (60 - 62 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Kinesiology and Health Promotion, A.S.

Freshman Year

Fall Semester (16 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HLED 1006 - Personal Health *(3CR)*
- KIN 1004 - Introduction to Kinesiology and Health Promotion *(2CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (15 Credits)

- CHEM 1000 - Intro to Chemistry *(4CR)*
- HW 0000 - Health and Wellness *(1CR)*
- KIN 2052 - Prevention and Care of Athletic Injuries *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Sophomore Year

Fall Semester (16 Credits)

- COM2 0000 - Oral Communication *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- FCSC 1141 - Principles of Nutrition (SCI Elective) *(3CR)*
  or
- KIN 2136 - Sports Nutrition *(3CR)*
- KIN 2030 - Motor Learning *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

Spring Semester (16.33 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HLTK 1625 - American Heart Association BLS for the Provider *(.33CR)*
- HU 0000 - Humanities *(3CR)*
- KIN 2050 - Functional Kinesiology *(3CR)*
- KIN 2135 - Personal Trainer Education *(3CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*

Total Program Credits (63.33 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Machine Tool Technology Certificate

Fall Semester (16 credits)

- ENTK 1500 - Engineering Graphics *(4CR)*
  or
- ENTK 2010 - CAD 3D Modeling and Mechanical Design I *(4CR)*
- MCHT 1640 - Basic Machining Practice *(10CR)*
- MCHT 1680 - Blueprint Reading *(2CR)*

Spring Semester (19 credits)

- MCHT 1570 - Machine Trades Computations *(2CR)*
- MCHT 1650 - Intermediate Machining Practice *(10CR)*
- MCHT 2680 - Metallurgy *(3CR)*
- MCHT 2780 - Computer Numerical Control (CNC) Machining Center *(4CR)*
  or
- MCHT 2790 - Computer Numerical Control (CNC) Turning Center *(4CR)*

Total Program Credits (35 credits)

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Machine Tool Technology, A.A.S.

Freshman Year

Fall Semester (16 credits)

- ENTK 1500 - Engineering Graphics *(4CR)*
  or
- ENTK 2010 - CAD 3D Modeling and Mechanical Design I *(4CR)*
- MCHT 1640 - Basic Machining Practice *(10CR)*
- MCHT 1680 - Blueprint Reading *(2CR)*

Spring Semester (15 credits)

- MCHT 2680 - Metallurgy *(3CR)*
- MCHT 1570 - Machine Trades Computations *(2CR)*
- MCHT 1650 - Intermediate Machining Practice *(10CR)*

Sophomore Year

Fall Semester (18-19 credits)

- MCHT 2650 - Advanced Machining Practice *(5CR)*
- MCHT 2780 - Computer Numerical Control (CNC) Machining Center *(4CR)*
- MCHT 2800 - Computer Assisted Manufacturing *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
  or
- MATH 0000 - Math Computation *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*

Spring Semester (14-15) credits)

- MCHT 2790 - Computer Numerical Control (CNC) Turning Center *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- GEL 0000 - General Education Electives (3-4CR)
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*

Total Program Credit (64 credits)

Note:

To graduate with a certificate or degree, students must earn a "C" or better in all major requirements.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Manufacturing and Automation Technology, A.A.S.

Freshman Year

Fall Semester (17 credits)

- ENTK 1060 - Excel Technical Applications *(3CR)*
- ENTK 1500 - Engineering Graphics *(4CR)*
- ELTR 1570 - Electric Circuits *(4CR)*
- MCHT 1610 - Machine Tool Technology I
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Spring Semester (16-17 credits)

- ENTK 2010 - CAD 3D Modeling and Mechanical Design I *(4CR)*
- MANF 2525 - Design and Manufacturing Methods *(4CR)*
- MCHT 1620 - Machine Tool Technology II *(2CR)*
- MATH 0000 - Math Computation *(3CR)*
  or
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- PEL 0000 - Program Electives (3CR)

Sophomore Year

Fall Semester (17 credits)

- MCHT 2780 - Computer Numerical Control (CNC) Machining Center *(4CR)*

- MCHT 2800 - Computer Assisted Manufacturing *(3CR)*
- ENTK 2020 - CAD 3D Modeling and Mechanical Design II *(4CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*
- ELTR 2815 - Programmable Logic Controllers *(3CR)*

Spring Semester (13.5 credits)

- MCHT 2790 - Computer Numerical Control (CNC) Turning Center *(4CR)*
- GEL 0000 - General Education Electives
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*
- PEL 0000 - Program Electives (3CR)

Program Electives

Approved Program Electives (PEL):

- ENTK 2030 - Cad 3D Modeling and Mechanical Design III *(4CR)*
- MANF 2550 - Advanced CNC I *(4CR)*
- MANF 2690 - Robot Welding *(4CR)*
- MCHT 1570 - Machine Trades Computations *(2CR)*
- MCHT 1640 - Basic Machining Practice *(10CR)*
- MCHT 1680 - Blueprint Reading *(2CR)*
- MCHT 2680 - Metallurgy *(3CR)*
- WELD 1700 - General Welding *(1CR) or (2.5CR)*
  or
- WELD 1820 - GMAW and GTAW Welding *(2.5CR)*

Total Program Credits (63.5 credits)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Manufacturing Technology Certificate

Fall Semester (14 credits)

- ENTK 1500 - Engineering Graphics *(4CR)*
- MCHT 1640 - Basic Machining Practice *(10CR)*

Spring Semester (15 credits)

- ENTK 2010 - CAD 3D Modeling and Mechanical Design I *(4CR)*
- MANF 2525 - Design and Manufacturing Methods *(4CR)*
- MCHT 2790 - Computer Numerical Control (CNC) Turning Center *(4CR)*
- WELD 1910 - Specialized Welding and Joining *(3CR)*

Fall Semester (13 Credits)

- ENTK 2020 - CAD 3D Modeling and Mechanical Design II *(4CR)*
- MCHT 2780 - Computer Numerical Control (CNC) Machining Center *(4CR)*
- WELD 1700 - General Welding *(1CR) or (2.5CR)* (2.5CR)
- WELD 1820 - GMAW and GTAW Welding *(2.5CR)*

Total Program Credits (42 credits)

Note:

The normal length of this program is three semesters.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Marketing Certificate

Students must receive a "C" or better in each course.

Fall Semester (9 credits)

- BADM 1000 - Intro to Business *(3CR)*
- MKT 2200 - Consumer Behavior *(3CR)*
- MKT 1485 - Marketing Seminar *(3CR)*

Spring Semester (9 credits)

- MKT 2000 - Introduction to Digital Marketing *(3CR)*
- MKT 2100 - Principles of Marketing *(3CR)*
- BADM 1020 - Business Communications (COM1) *(3CR)*

Fall Semester (6 credits)

- MKT 1300 - Integrated Marketing Communication *(3CR)*
- MKT 2005 - Digital Marketing II *(3CR)*

Spring Semester (6 credits)

- MKT 1010 - Sales and Customer Relationship Management *(3CR)*
- ART 1115 - Digital Media (FA) *(3CR)*

Total Program Credits (30 credits)

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Marketing, A.A.S.

Freshman Year

Fall Semester (15 credits)

- BADM 1000 - Intro to Business *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- COM2 0000 - Oral Communication *(3CR)*
- BADM 1020 - Business Communications (COM1) *(3CR)*
- BADM 1005 - Business Mathematics I (MATH) *(3CR)*
- MKT 1485 - Marketing Seminar *(3CR)*
- MKT 2200 - Consumer Behavior *(3CR)*

Spring Semester (15 Credits)

- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- SSC 0000 - Social Science *(3CR)*
- MKT 2000 - Introduction to Digital Marketing *(3CR)*
- MKT 2100 - Principles of Marketing *(3CR)*
- PEL 0000 - Program Electives

Sophomore Year

Fall Semester (16 Credits)

- CMAP 1200 - Computer Information Systems *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MKT 1300 - Integrated Marketing Communication *(3CR)*
- MKT 2005 - Digital Marketing II *(3CR)*
- PEL 0000 - Program Electives

Spring Semester (16 Credits)

- BADM 1025 - Small Business Finance *(3CR)*
- GEL 0000 - General Education Electives
- IMGT 2400 - Introduction to Information Management *(3CR)*
- MKT 1010 - Sales and Customer Relationship Management *(3CR)*
- PEL 0000 - Program Electives

Content Creation Concentration

- COMM 1000 - Intro to Mass Media (SSC) *(3CR)*
- COMM 2100 - Media Writing *(3CR)*
- COMM 2200 - Survey of Media Production *(3CR)*
- COMM 2310 - Public Relations *(3CR)*
- COMM 2320 - Intro to Social Media *(3CR)*
- COMM 2390 - Independent Publications *(1CR)(Max. 3CR)*

Entrepreneurship Concentration

- ACCT 1005 - Practical Accounting *(4CR)*
- BADM 2010 - Legal Environment of Business
- BADM 2030 - Business Ethics *(3CR)*
- BADM 2195 - Entrepreneurship *(3CR)*
- ECON 1020 - Microeconomics (SSC) *(3CR)*
- MGT 2100 - Principles of Management *(3CR)*
- MGT 2200 - Strategic Human Resource Management *(3CR)*

Graphic Design Concentration

- ART 2110 - Typography *(3CR)*
- ART 2112 - Graphic Design I *(3CR)*
- ART 2125 - Graphic Design II *(3CR)*
- ART 2130 - Graphic Design III *(3CR)*

Web Design Concentration

- BOTK 1955 - Professional Development *(3CR)*
- CMAP 1550 - E-Portfolio Development *(1CR)*
- CMAP 1715 - Word Processing Applications *(3CR)*
- CMAP 1765 - Spreadsheet Applications *(3CR)*
- CMAP 1815 - Database Applications *(3CR)*
- IMGT 2410 - Data Analytics *(1CR)*

- IMGT 2420 - Advanced Data Analytics *(1CR)*
- INET 1595 - Word Press *(2CR)*

Total Program Credits (62)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Mathematics — Secondary Education, A.S.

Freshman Year

Fall Semester (16 Credits)

- EDFD 2020 - Foundations of Education *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 2200 - Calculus I (MATH) *(4CR)*
- POLS 1000 - American and Wyoming Government (CNST) *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Spring Semester (15 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- EDFD 2100 - Educational Psychology *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 2205 - Calculus II *(4CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*

Sophomore Year

Fall Semester (16 Credits)

- EDST 2250 - Educational Assessment *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- ITEC 2360 - Teaching and Learning with Educational Technology *(3CR)*
- MATH 2210 - Calculus III *(4CR)*
- MATH 2250 - Elementary Linear Algebra *(3CR)*

Spring Semester (17 Credits)

- EDEX 2484 - Intro to Special Education *(3CR)*
- EDUC 2100 - Practicum in Teaching *(4CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 2300 - Discrete Structures *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Total Program Credits (64 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Mathematics, A.S.

Freshman Year

Fall Semester (16 Credits)

- MATH 2200 - Calculus I (MATH) *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- SSC 0000 - Social Science *(3CR)*
- HU 0000 - Humanities *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*

Spring Semester (15 Credits)

- MATH 2205 - Calculus II *(4CR)*
- COM2 0000 - Oral Communication *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or

- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*

Sophomore Year

Fall Semester (17 Credits)

- COSC 1010 - Computational Thinking and Programming
- GEL 0000 - General Education Electives (3CR)
- MATH 2210 - Calculus III *(4CR)*
- MATH 2250 - Elementary Linear Algebra *(3CR)*
- PEL 0000 - Program Electives (1-3CR)

Spring Semester (14 Credits)

- FA 0000 - Fine Arts *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 2300 - Discrete Structures *(3CR)*
- MATH 2310 - Applied Differential Equations I *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Total Program Credits (62 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Mechanical Graphics and Design Certificate

Freshman Year

Fall Semester (8 credits)

- ENTK 1500 - Engineering Graphics *(4CR)*
- ENTK 2010 - CAD 3D Modeling and Mechanical Design I *(4CR)*

Spring Semester (7 credits)

- ENTK 1021 - Descriptive Geometry *(3CR)*
- MANF 2525 - Design and Manufacturing Methods *(4CR)*

Sophomore Year

Fall Semester (11-12 credits)

- ENTK 2020 - CAD 3D Modeling and Mechanical Design II *(4CR)*
- PEL 0000 - Program Electives (7-8CR)

Choose two additional classes from program electives below

Spring Semester (4 credits)

- ENTK 2030 - Cad 3D Modeling and Mechanical Design III *(4CR)*

Program Electives

- MCHT 2780 - Computer Numerical Control (CNC) Machining Center *(4CR)*
- MCHT 2790 - Computer Numerical Control (CNC) Turning Center *(4CR)*
- MCHT 2800 - Computer Assisted Manufacturing *(3CR)*

Program Total (30-31 credits)

Note:

*These courses are often completed by students previous to being a degree seeking student at Casper College and are included in the Engineering Technology and Design, A.A.S. degree as well.

This program cannot be completed in nine months due to the sequence of courses.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Media Communication, A.A.

Freshman Year

Fall Semester (16 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- COMM 1000 - Intro to Mass Media (SSC) *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Spring Semester (16 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- COMM 2100 - Media Writing *(3CR)*

- COMM 2390 - Independent Publications *(1CR)(Max. 3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- PEL 0000 - Program Electives (3CR)

Sophomore Year

Fall Semester (15 Credits)

- ART 1115 - Digital Media (FA) *(3CR)*
- COMM 2200 - Survey of Media Production *(3CR)*
- COMM 2390 - Independent Publications *(1CR)(Max. 3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- MUSC 2415 - Sound Reinforcement I *(2CR)*
- PEL 0000 - Program Electives (3CR)

Spring Semester (13 Credits)

- COMM 2310 - Public Relations *(3CR)*
- COMM 1040 - Intro to Communication Theory *(3CR)*
- COMM 2320 - Intro to social media *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives (3CR) Recommended Electives COMM 1030, COMM 2380, COMM 2471, & MKT 2100

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Medical Laboratory Technician, A.S.

Freshman Year

Fall Semester (16-17 Credits)

- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- MLTK 1500 - Clinical Hematology and Hemostasis
- MATH 1400 - College Algebra (MATH) *(4CR)*
- MOLB 2210 - General Microbiology *(4CR)*
  or
- MOLB 2240 - Medical Microbiology *(4CR)*

Spring Semester (16 Credits)

- BIOL 1010 - General Biology I (SCI) *(4CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- HW 0000 - Health and Wellness *(1CR)*
- MLTK 1600 - Clinical Immunohematology
- MLTK 1700 - Microscopy: Urinalysis and Body Fluids *(2CR)*
- MLTK 2600 - Clinical Microbiology I *(2CR)*

Summer Semester (7 Credits)

- CHEM 1000 - Intro to Chemistry *(4CR)*
  or
- CHEM 1020 - General Chemistry I *(4CR)*
- MLTK 1800 - Principles of Phlebotomy

Sophomore Year

Fall Semester (18 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- MLTK 2500 - Clinical Chemistry
- MLTK 2650 - Clinical Microbiology II *(2CR)*
- MLTK 2700 - Immunology *(4CR)*
- SSC 0000 - Social Science *(3CR)*

Spring Semester (15 Credits)

- MLTK 2800 - Clinical Pathophysiology *(4CR)*
- MLTK 2971 - Clinical Practicum: Hematology *(2CR)*
- MLTK 2972 - Clinical Practicum: Chemistry *(2CR)*
- MLTK 2973 - Clinical Practicum: Immunohematology *(2CR)*
- MLTK 2974 - Clinical Practicum: Microbiology *(2CR)*

- MLTK 2976 - Clinical Practicum: Serology *(1CR)*
- MLTK 2977 - Clinical Practicum: Urinalysis and Body Fluids *(1CR)*
- MLTK 2978 - Clinical Practicum: Medical Laboratory Technician Professionalism *(1CR)*

Total Program Credits (72-73 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

The courses listed are consistent with the required curriculum for Baccalaureate Medical Technology programs. Additional credit hours beyond the AS degree may be required to meet prerequisite coursework requirements for the BS programs.

Graduation Requirements

A minimum of 71 approved semester credits are required for graduation. For specific graduation requirements see "Degree Requirements". Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, and Associate of Applied Science degrees.

Museum/Gallery Studies, A.A.

Freshman Year

Fall Semester (15 Credits)

- ANTH 1300 - Intro to Archaeology *(3CR)*
- ART 2010 - Art History I (HU) *(3CR)*
- ART 2023 - Collections Management *(3CR)*
- ART 2070 - Intro to Museology *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*

Spring Semester (16 Credits)

- ART 2020 - Art History II (HU) *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- PEL 0000 - Program Electives (3CR)
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- SSC 0000 - Social Science *(3CR)*

Sophomore Year

Fall Semester (13 Credits)

- ANTH 1100 - Intro to Biological Anthropology *(3CR)*
  or
- ANTH 1200 - Intro to Cultural Anthropology (SSC) *(3CR)*
- ART 2035 - Art History: The Enlightenment to Postmodern Art
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 0000 - Math Computation *(3CR)*

Spring Semester (16 Credits)

- ART 2970 - Museum Training Internship *(6CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives (4CR)

Program Electives

Students are encouraged to take an elective that enhances knowledge for museum/gallery work in the type of museum suited to their personal interest or career goal of a conservator, visitor services, bilingual museum educator, etc.

- ART 1005 - Drawing I (FA) *(3CR)*
- ART 2350 - Metalsmithing I(FA) *(3CR)*
- ART 2470 - Art Museum Training Internship
- ASL 1010 - American Sign Language I (HU) *(4CR)*
- GEOL 1100 - Physical Geology (SCI) *(4CR)*
- GERM 1010 - First Year German I (HU) *(4CR)*
- HOSP 2530 - Tourism Management *(3CR)*
- RELI 1000 - Intro to Religion (HU) *(3CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- SPAN 1010 - First Year Spanish I (HU) *(4CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this

program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Music, A.A.

Instrumental Performance Emphasis

Freshman Year

Fall Semester (18 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- FA 0000 - Fine Arts *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (2CR)
- MUSC 1030 - Written Theory I *(3CR)*
- MUSC 1035 - Aural Theory I *(1CR)*
- MUSC 1290 - Class Piano I *(1CR)*

Spring Semester (18 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 0000 - Math Computation *(3CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (2CR)
- MUSC 1003 - Historical Perspectives in Music I *(3CR)*
- MUSC 1040 - Written Theory II *(3CR)*
- MUSC 1045 - Aural Theory II *(1CR)*
- MUSC 1295 - Class Piano II *(1CR)*

Sophomore Year

Fall Semester (18 Credits)

- COM2 0000 - Oral Communication *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (2CR)
- MUSC 1480 - Chamber Music I: (Subtitle) *(1CR) (Max 4)*
- MUSC 2030 - Written Theory III *(3CR)*
- MUSC 2035 - Aural Theory III *(1CR)*
- MUSC 2050 - Historical Perspectives in Music II *(3CR)*
- MUSC 2290 - Class Piano III *(1CR)*

Spring Semester (18 Credits)

- HU 0000 - Humanities *(3CR)*
- SSC 0000 - Social Science *(3CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (2CR)
- MUSC 1480 - Chamber Music I: (Subtitle) *(1CR) (Max 4)*
- MUSC 2040 - Written Theory IV *(3CR)*
- MUSC 2045 - Aural Theory IV *(1CR)*
- MUSC 2055 - Historical Perspectives in Music III *(3CR)*
- MUSC 2295 - Class Piano IV *(1CR)*
- MUSC 2395 - Piano Proficiency *(0CR)*

Total Program Credits (72 Credits)

Vocal Performance Emphasis

Freshman Year

Fall Semester (17 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (2CR)
- MUSC 1030 - Written Theory I *(3CR)*
- MUSC 1035 - Aural Theory I *(1CR)*
- MUSC 1290 - Class Piano I *(1CR)*

Spring Semester (19 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- MATH 0000 - Math Computation *(3CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (2CR)
- MUSC 1003 - Historical Perspectives in Music I *(3CR)*
- MUSC 1040 - Written Theory II *(3CR)*
- MUSC 1045 - Aural Theory II *(1CR)*

- MUSC 1295 - Class Piano II *(1CR)*
- MUSC 2320 - Diction for Singers I *(2CR)*

Sophomore Year

Fall Semester (18 Credits)

- COM2 0000 - Oral Communication *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (2CR)
- MUSC 2030 - Written Theory III *(3CR)*
- MUSC 2035 - Aural Theory III *(1CR)*
- MUSC 2050 - Historical Perspectives in Music II *(3CR)*
- MUSC 2290 - Class Piano III *(1CR)*

Spring Semester (18 Credits)

- HU 0000 - Humanities *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- SSC 0000 - Social Science *(3CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (2CR)
- MUSC 2040 - Written Theory IV *(3CR)*
- MUSC 2045 - Aural Theory IV *(1CR)*
- MUSC 2055 - Historical Perspectives in Music III *(3CR)*
- MUSC 2295 - Class Piano IV *(1CR)*
- MUSC 2395 - Piano Proficiency *(0CR)*

Total Program Credits (72 Credits)

Instrumental Music Education

Emphasis

Freshman Year

Fall Semester (17 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- FA 0000 - Fine Arts *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- MUSC 1025 - Introduction to Music Education *(2CR)*
- MUSC 1030 - Written Theory I *(3CR)*
- MUSC 1035 - Aural Theory I *(1CR)*
- MUSC 1290 - Class Piano I *(1CR)*

Spring Semester (19 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- MATH 0000 - Math Computation *(3CR)*
- EDFD 2020 - Foundations of Education *(3CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- MUSC 1003 - Historical Perspectives in Music I *(3CR)*
- MUSC 1040 - Written Theory II *(3CR)*
- MUSC 1045 - Aural Theory II *(1CR)*
- MUSC 1295 - Class Piano II *(1CR)*

Sophomore Year

Fall Semester (18 Credits)

- COM2 0000 - Oral Communication *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- MUSC 2030 - Written Theory III *(3CR)*
- MUSC 2035 - Aural Theory III *(1CR)*
- MUSC 2050 - Historical Perspectives in Music II *(3CR)*
- MUSC 2290 - Class Piano III *(1CR)*

Spring Semester (18 Credits)

- HU 0000 - Humanities *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- Secondary Music Studio (1CR)
- MUSC 2040 - Written Theory IV *(3CR)*
- MUSC 2045 - Aural Theory IV *(1CR)*
- MUSC 2055 - Historical Perspectives in Music III *(3CR)*
- MUSC 2265 - Music Education Portfolio Review *(S/U)*
- MUSC 2295 - Class Piano IV *(1CR)*
- MUSC 2395 - Piano Proficiency *(0CR)*

Total Program Credits (72 Credits)

Vocal Music Education Emphasis

Freshman Year

Fall Semester (19 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- FA 0000 - Fine Arts *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)* Satisfies SSC
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- MUSC 1025 - Introduction to Music Education *(2CR)*
- MUSC 1030 - Written Theory I *(3CR)*
- MUSC 1035 - Aural Theory I *(1CR)*
- MUSC 1290 - Class Piano I *(1CR)*

Spring Semester (18 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- MATH 0000 - Math Computation *(3CR)*
- EDFD 2020 - Foundations of Education *(3CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- MUSC 1003 - Historical Perspectives in Music I *(3CR)*
- MUSC 1040 - Written Theory II *(3CR)*
- MUSC 1045 - Aural Theory II *(1CR)*
- MUSC 1295 - Class Piano II *(1CR)*

Sophomore Year

Fall Semester (18 Credits)

- COM2 0000 - Oral Communication *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- MUSC 2030 - Written Theory III *(3CR)*
- MUSC 2035 - Aural Theory III *(1CR)*
- MUSC 2050 - Historical Perspectives in Music II *(3CR)*
- MUSC 2290 - Class Piano III *(1CR)*

Spring Semester (18 Credits)

- HU 0000 - Humanities *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- MUSC 1200 - Piano I *(1-2CR)(Max 8)* (1CR)
- MUSC 2040 - Written Theory IV *(3CR)*
- MUSC 2045 - Aural Theory IV *(1CR)*
- MUSC 2055 - Historical Perspectives in Music III *(3CR)*
- MUSC 2265 - Music Education Portfolio Review *(S/U)*
- MUSC 2295 - Class Piano IV *(1CR)*
- MUSC 2395 - Piano Proficiency *(0CR)*

Total Program Credits (73 Credits)

Music Composition Emphasis

Freshman Year

Fall Semester (19 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- MUSC 1030 - Written Theory I *(3CR)*
- MUSC 1035 - Aural Theory I *(1CR)*
- MUSC 1290 - Class Piano I *(1CR)*

Spring Semester (18 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- HW 0000 - Health and Wellness *(1CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- MUSC 1003 - Historical Perspectives in Music I *(3CR)*
- MUSC 1040 - Written Theory II *(3CR)*
- MUSC 1045 - Aural Theory II *(1CR)*
- MUSC 1070 - Music Composition *(1CR)(8MAX)*
- MUSC 1295 - Class Piano II *(1CR)*
- MUSC 1008 - Intro to Film and Video Game Music (FA) *(3CR)*
  or (depending on year)
- SSC 0000 - Social Science *(3CR)*

Sophomore Year
Fall Semester (18 Credits)
- COM2 0000 - Oral Communication *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- MUSC 1070 - Music Composition *(1CR)(8MAX)*
- MUSC 2030 - Written Theory III *(3CR)*
- MUSC 2035 - Aural Theory III *(1CR)*
- MUSC 2050 - Historical Perspectives in Music II *(3CR)*
- MUSC 2290 - Class Piano III *(1CR)*

Spring Semester (17 Credits)
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- MUSC 0200 - Convocation *(0CR)*
- Music Ensemble (1CR)
- Music Studio (1CR)
- MUSC 1070 - Music Composition *(1CR)(8MAX)*
- MUSC 2040 - Written Theory IV *(3CR)*
- MUSC 2045 - Aural Theory IV *(1CR)*
- MUSC 2055 - Historical Perspectives in Music III *(3CR)*
- MUSC 2295 - Class Piano IV *(1CR)*
- MUSC 2395 - Piano Proficiency *(0CR)*
- MUSC 1008 - Intro to Film and Video Game Music (FA) *(3CR)*
  or (depending on year)
- SSC 0000 - Social Science *(3CR)*

Total Program Credits (72 Credits)
Note:
All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements: A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Musical Theatre Performance, A.A.
Freshman Year
Fall Semester (17-18 Credits)
- COM2 0000 - Oral Communication *(3CR)*
- DANC 1480 - Beginning Jazz Dance I (FA) *(2CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
  Suggested course: THEA 1100 Acting I
- HW 0000 - Health and Wellness *(1CR)*
  Suggested course: PEAC 1460 Modern Dance I
- THEA 1032 - Musicianship I: Musical Theatre *(3CR)*
- THEA 1046 - Musical Theatre Voice *(1-2CR)*
- THEA 1050 - Theatre and Dance Townhall *(0CR)*
- THEA 2050 - Theatre Practice *(0-1 CR) (Max. 10)* (1CR)

Spring Semester (17-18 Credits)
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- HU 0000 - Humanities *(3CR)*
- MATH 0000 - Math Computation *(3CR)* 1000 level or higher
- THEA 1042 - Musicianship II: Musical Theatre *(3CR)*
- THEA 1046 - Musical Theatre Voice *(1-2CR)*
- THEA 1050 - Theatre and Dance Townhall *(0CR)*
- THEA 2050 - Theatre Practice *(0-1 CR) (Max. 10)* (0CR)
- THEA 2100 - Acting II *(3CR)*
- THEA 2435 - Musical Theatre Dance *(1CR)*

Sophomore Year
Fall Semester (16-17 Credits)
- DANC 1410 - Beginning Ballet I (FA) *(2CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- THEA 1050 - Theatre and Dance Townhall *(0CR)*

- THEA 1250 - Script Analysis and Dramatic Literature *(3CR)*
- THEA 1300 - Musical Theatre Workshop *(3CR)*
- THEA 2050 - Theatre Practice *(0-1 CR) (Max. 10)* (1CR)
- THEA 2310 - Auditioning *(2CR)*
- THEA 2340 - Musical Theatre Voice II *(1-2CR)*

Spring Semester (14 -15Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- SSC 0000 - Social Science *(3CR)*
- THEA 1050 - Theatre and Dance Townhall *(0CR)*
- THEA 2050 - Theatre Practice *(0-1 CR) (Max. 10)* (0CR)
- THEA 2105 - Musical Theatre Scene Study *(3CR)*
- THEA 2160 - Stage Makeup *(3CR)*
- THEA 2340 - Musical Theatre Voice II *(1-2CR)*
- THEA 2435 - Musical Theatre Dance *(1CR)*

Total Program Credits (64-68 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Nursing A.D.N.

ADN - Prerequisite Requirements (14 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*
- HLTK 1200 - Medical Terminology *(3CR)*

ADN - Freshman Year

First Semester (17 Credits)

- CMAP 1550 - E-Portfolio Development *(1CR)*
- HLTK 1000 - Principles of Healthcare Calculations *(2CR)*
- NURS 1100 - Professional Nursing Care in Health Promotion *(10CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Second Semester (13 Credits)

- NURS 1200 - Professional Nursing Care of the Patient with Chronic Illness *(10CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

ADN - Sophomore Year

Third Semester (13 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- COM2 0000 - Oral Communication *(3CR)*
- NURS 2300 - Professional Nursing Care of the Patient with Acute Illness *(10CR)*

Fourth Semester (13 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- NURS 2400 - Professional Nursing Care of the Patient with Complex Illness *(10CR)*

Total Program Credits including Prerequisites (70 Credits)

LPN Advanced Placement

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Nutrition, A.S.

Freshman Year

Fall Semester (16-17 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- FCSC 1141 - Principles of Nutrition (SCI Elective) *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- SSC 0000 - Social Science *(3CR)*

Spring Semester (17 Credits)

- CHEM 1000 - Intro to Chemistry *(4CR)*
  or
- CHEM 1020 - General Chemistry I *(4CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- FCSC 1410 - Scientific Study of Food *(4CR)*
- HOSP 2320 - Food and Beverage Management *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Sophomore Year

Fall Semester (14 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- GEL 0000 - General Education Electives (3CR)
- FA 0000 - Fine Arts *(3CR)*
- FCSC 2141 - Nutrition Controversies *(2CR)*
- PEL 0000 - Program Electives (3CR)

Spring Semester (13-14 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- KIN 2136 - Sports Nutrition *(3CR)*
- HU 0000 - Humanities *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives (3-4CR)

Program Electives

- ANSC 1160 - Issues in Agriculture *(3CR)*
- CHEM 1030 - General Chemistry II *(4CR)* (Need if transferring to UW)
- CHEM 2300 - Intro to Organic Chemistry *(4CR)*
- MOLB 2210 - General Microbiology *(4CR)*
- MOLB 2240 - Medical Microbiology *(4CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Total Program Credits (60-62 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Occupational Therapy Assistant, A.S.

Freshman Year

Fall Semester (18 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- COTA 2300 - Fieldwork Integration I *(2CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
- OCTH 2000 - Introduction to Occupational Therapy *(2CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

- HW 0000 - Health and Wellness *(1CR)*

Spring Semester (16 Credits)

- COTA 2020 - Human Occupations and Life Roles *(2CR)*
- COTA 2200 - Therapeutic Approaches and Media I *(2CR)*
- COTA 2310 - Fieldwork Integration II *(2CR)*
- KIN 2050 - Functional Kinesiology *(3CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*
- HU 0000 - Humanities *(3CR)*

Summer Semester (7 Credits)

- COTA 2150 - Group Dynamics *(1CR)*
- COTA 2420 - Clinical Conditions *(3CR)*
- COM2 0000 - Oral Communication *(3CR)*

Sophomore Year

Fall Semester (15 Credits)

- COTA 2100 - Psychosocial Aspects *(3CR)*
- COTA 2160 - Leadership Skills *(2CR)*
- COTA 2210 - Therapeutic Approaches and Media II *(2CR)*
- COTA 2320 - Fieldwork Integration III *(2CR)*
- COTA 2350 - Clinical Theory and Practice I *(3CR)*
- FA 0000 - Fine Arts *(3CR)*

Spring Semester (14 Credits)

- COTA 2220 - Therapeutic Approaches and Media III *(3CR)*
- COTA 2330 - Fieldwork Integration IV *(2CR)*
- COTA 2400 - Clinical Theory and Practice II *(3CR)*
- COTA 2450 - Health Care Systems *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*

Summer Semester (6-9 Credits)

- COTA 2500 - Fieldwork A
- COTA 2550 - Fieldwork B

Total Program Credits (76-79 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Office Management Certificate

Fall Semester (15 credits)

- ACCT 1005 - Practical Accounting *(4CR)*
  or
- ACCT 2010 - Principles of Accounting I *(4CR)*
- CMAP 1715 - Word Processing Applications *(3CR)*
- CMAP 1765 - Spreadsheet Applications *(3CR)*
- INET 1595 - Word Press *(2CR)*
- MGT 2100 - Principles of Management *(3CR)*

Spring Semester (15 credits)

- BADM 1020 - Business Communications (COM1) *(3CR)*
- BOTK 1955 - Professional Development *(3CR)*
- CMAP 1550 - E-Portfolio Development *(1CR)*
- CMAP 1815 - Database Applications *(3CR)*
- IMGT 2410 - Data Analytics *(1CR)*
- IMGT 2420 - Advanced Data Analytics *(1CR)*
- PEL 0000 - Program Electives (3CR)

Total Program Credits (30 credits)

Note:

The normal length of this program is nine months.
All classes in the major must be passed with a "C" or better.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Office Management, A.A.S.

Freshman Year

Fall Semester (16-17 credits)

- BOTK 1655 - Keyboarding Speed and Accuracy *(1CR)*
- CMAP 1200 - Computer Information Systems *(3CR)*
- CMAP 1715 - Word Processing Applications *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MGT 2100 - Principles of Management *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
  or
- MATH 1000 - Problem Solving (MATH) *(3CR)*

Spring Semester (13 credits)

- ACCT 2010 - Principles of Accounting I *(4CR)*
- BOTK 1955 - Professional Development *(3CR)*
- INET 1595 - Word Press *(2CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*

Sophomore Year

Fall Semester (15 credits)

- ACCT 2110 - QuickBooks Accounting *(3CR)*
- BADM 2010 - Legal Environment of Business
- CMAP 1550 - E-Portfolio Development *(1CR)*
- CMAP 1765 - Spreadsheet Applications *(3CR)*
  or
- CMAP 1815 - Database Applications *(3CR)*
- IMGT 2410 - Data Analytics *(1CR)*
- IMGT 2420 - Advanced Data Analytics *(1CR)*
- BADM 1000 - Intro to Business *(3CR)*
  or
- MKT 2100 - Principles of Marketing *(3CR)*

Spring Semester (14-16 credits)

- BADM 1020 - Business Communications (COM1) *(3CR)*
- BADM 2030 - Business Ethics *(3CR)*
- BOTK 1980 - Cooperative Work Experience I *(1-3CR) (Max 6)*
- IMGT 2400 - Introduction to Information Management *(3CR)*
- MGT 2200 - Strategic Human Resource Management *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Total Program Credits (60 credits)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Outdoor Recreation & Tourism A.S.

Freshman Year

Fall Semester (16 credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HOSP 1520 - Introduction to Hospitality and Tourism Management *(3CR)*
- ECON 1020 - Microeconomics (SSC) *(3CR)*
- HOSP 2530 - Tourism Management *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

Spring Semester (15-16 credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HOSP 2525 - Recreation and Tourism Planning and Development *(3CR)*
- GEOG 1000 - World Regional Geography (SSC) *(3CR)*
  or

- GIST 1110 - Management and Implementation of GIS *(4CR)*
- PEL 0000 - Program Electives (3CR)
- Approved Advisor Electives:
    - Choose from AGTK, HOSP, MGT, MKT, PEAC
    - A maximum of two credits (2CR) from PEAC

Sophomore Year

Fall Semester (15 credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)* (or higher)
- SOC 2112 - Environmental Sociology *(3CR)*
- MKT 2100 - Principles of Marketing *(3CR)*

Spring Semester (14 credits)

- ENR 1200 - Environment (SCI) *(4CR)*
  or
- GEOL 1100 - Physical Geology (SCI) *(4CR)*
- MKT 1010 - Sales and Customer Relationship Management *(3CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*
- HOSP 2980 - Cooperative Work Experience (Hospitality Management) *(1-3CR) (Max. 9)* (3CR)

Total Program Credits (60 credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Paralegal Certificate

Fall Semester (17 Credits)

- CRMJ 1001 - Intro to Criminal Justice (SSC) *(3CR)*
- LEGL 1610 - Introduction to the Paralegal Profession *(3CR)*
- LEGL 1700 - Legal Analysis *(3CR)*
- LEGL 1710 - Legal Research and Writing I
- LEGL 2500 - Civil Procedure *(3CR)*

Spring Semester (16 Credits)

- CRMJ 2230 - Law of Evidence
- LEGL 1620 - Transactional Law
- LEGL 1720 - Legal Research and Writing II *(3CR)*
- LEGL 2550 - Litigation Support *(3CR)*
- LEGL 2610 - Family Law *(3CR)*

Note:

The certificate program is only available to students who have a bachelor's degree.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Paralegal Studies, A.A.

ABA Approved

Freshman Year

Fall Semester (15 - 16 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- LEGL 1610 - Introduction to the Paralegal Profession *(3CR)*
- LEGL 1700 - Legal Analysis *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- POLS 1000 - American and Wyoming Government (CNST) *(3CR)*

Spring Semester (16 - 17 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- LEGL 1620 - Transactional Law
- PSYC 1000 - General Psychology (SSC) *(3CR)*

- GEL 0000 - General Education Electives

Sophomore Year

Fall Semester (16 Credits)

- FA 0000 - Fine Arts *(3CR)*
- LEGL 1710 - Legal Research and Writing I
- LEGL 2500 - Civil Procedure *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- PEL 0000 - Program Electives
  Please choose one course from below (3CR):
- CRMJ 2120 Intro to Criminal Justice;
- CRMJ 2210 Criminal Law;
- BADM 2010 Legal Environment of Business;
- LEGL 2970 Legal Assistant Internship; or
- LEGL 2610 Family Law

Spring Semester (15 Credits)

- CRMJ 2230 - Law of Evidence
- HU 0000 - Humanities *(3CR)*
- LEGL 1720 - Legal Research and Writing II *(3CR)*
- LEGL 2550 - Litigation Support *(3CR)*
- PEL 0000 - Program Electives

Please choose one course from below (3CR):

- CRMJ 2120 Intro to Criminal Justice;
- CRMJ 2210 Criminal Law;
- BADM 2010 Legal Environment of Business;
- LEGL 2970 Legal Assistant Internship; or
- LEGL 2610 Family Law

Total Program Credits (62 - 64 Credits)

Program Note:

Students are required to complete at least 9 semester credits or equivalent of legal specialty courses through synchronous instruction.

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Personal Trainer Education Certificate

Fall Semester (15 Credits)

- HLED 1006 - Personal Health *(3CR)*
- KIN 1004 - Introduction to Kinesiology and Health Promotion *(2CR)*
- KIN 2030 - Motor Learning *(3CR)*
- KIN 2136 - Sports Nutrition *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

Spring Semester (14 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- KIN 2052 - Prevention and Care of Athletic Injuries *(3CR)*
- KIN 2135 - Personal Trainer Education *(3CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Total Certificate Credits (29 CR)

Note:

The normal length of this program is nine months.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Pharmacy Technology Certificate

Fall Semester (14 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*
  or
- ZOO 2025 - Human Physiology (SCI) *(4CR)*
- CHEM 1000 - Intro to Chemistry *(4CR)*
- COMM 1030 - Interpersonal Communication *(3CR)*

or
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- HLTK 1200 - Medical Terminology *(3CR)*

Spring Semester (10.33 Credits)
- HLTK 1625 - American Heart Association BLS for the Provider *(.33CR)*
- PHTK 1000 - Pharmacy Calculations I *(1CR)* *
- PHTK 1600 - Pharmacy Simulation Laboratory I *(4CR)* *
- PHTK 1650 - Pharmacy Law and Ethics *(2CR)* *
- PHTK 1710 - Pharmacology I *(3CR)* *

Summer Semester (5 Credits)
- PHTK 2972 - Pharmacy Experiential Training II *(5CR)*

Fall Semester (14 Credits)
- PHTK 1610 - Pharmacy Simulation Laboratory II *(4CR)*
- PHTK 1630 - Pharmacy Calculations II *(2CR)*
- PHTK 1720 - Pharmacology II *(3CR)*
- PHTK 2971 - Pharmacy Experiential Training I *(5CR)*

Total Certificate Credits (43.33)
Note:
* Enrollment limited to pharmacy technology majors.
The normal length of this program is 10 months.

Graduation Requirements
For specific graduation requirements see "Degree Requirements".

Pharmacy Technology, A.S.
Freshman Year
Fall Semester (10-15 Credits)
- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*
  and
- ZOO 2025 - Human Physiology (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (16 Credits)
- CHEM 1000 - Intro to Chemistry *(4CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- HLTK 1200 - Medical Terminology *(3CR)*
- HU 0000 - Humanities *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Sophomore Year
Fall Semester (13.33 Credits)
- HLTK 1625 - American Heart Association BLS for the Provider *(.33CR)*
- PHTK 1000 - Pharmacy Calculations I *(1CR)*
- PHTK 1600 - Pharmacy Simulation Laboratory I *(4CR)*
- PHTK 1650 - Pharmacy Law and Ethics *(2CR)*
- PHTK 1710 - Pharmacology I *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*

Spring Semester (14 Credits)
- PHTK 1610 - Pharmacy Simulation Laboratory II *(4CR)*
- PHTK 1630 - Pharmacy Calculations II *(2CR)*
- PHTK 1720 - Pharmacology II *(3CR)*
- PHTK 2971 - Pharmacy Experiential Training I *(5CR)*

Summer Semester (9 Credits)
- FA 0000 - Fine Arts *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PHTK 2972 - Pharmacy Experiential Training II *(5CR)*

Total Program Credits (62.33 - 67.33 Credits)
Note:
All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:
* Enrollment is limited to pharmacy technology majors.
In order to successfully complete either curriculum, the student must have a cumulative GPA of 2.0 and a "C" or better in all of the major courses, and a satisfactory rating in all experiential rotations.

Graduation Requirements:
A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Phlebotomy Technician Training Certificate

Fall Semester (16 Credits)

- CMAP 1505 - Introduction to Computers *(1CR)*
- CMAP 1550 - E-Portfolio Development *(1CR)*
- HLTK 1200 - Medical Terminology *(3CR)*
- MLTK 1800 - Principles of Phlebotomy (3CR)
- MLTK 1970 - Clinical Practicum: Phlebotomy *(2CR)* (not offered in the summer semester)
- COMM 1505 - Communication for Professional Success *(1-3CR)* (3CR)
  or
- ENGL 1010 - English Composition I (COM1) *(3CR)*
  and one of the following:
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- ANTH 1200 - Intro to Cultural Anthropology (SSC) *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Total Program Credits (16 Credits)

Note:
The normal length of this program is 16 weeks.

Graduation Requirements
For specific graduation requirements see "Degree Requirements".

Photography, A.F.A.

Freshman Year

Fall Semester (15 Credits)

- ART 1005 - Drawing I (FA) *(3CR)*
- ART 1110 - Foundation: Two-Dimensional *(3CR)*
- ART 1150 - Black and White Film Photography I (FA) *(3CR)*
- ART 2010 - Art History I (HU) *(3CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*

Spring Semester (16 Credits)

- ART 1115 - Digital Media (FA) *(3CR)*
- ART 2020 - Art History II (HU) *(3CR)*
- ART 2145 - Digital Photography I(FA) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives (3CR) any course with ART prefix
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*

Sophomore Year

Fall Semester (15-16 Credits)

- ART 1120 - Foundation: Three Dimensional (FA) *(3CR)*
- ART 1130 - Foundation: Color Theory *(3CR)*
- ART 1160 - Black and White Film Photography II *(3CR)*
- ART 2035 - Art History: The Enlightenment to Postmodern Art
- MATH 0000 - Math Computation *(3CR)*
  or
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Spring Semester (16 Credits)

- ART 2141 - Professional Practice in the Arts *(1CR)*
- ART 2146 - Digital Photography II *(3CR)*
- ART 2410 - Ceramics I (FA) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- GEL 0000 - General Education Electives (3CR)
- PEL 0000 - Program Electives (3CR) any course with ART prefix

Total Program Credits (62-63 Credits)

Note:

The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Physical Education, A.S.

Freshman Year

Fall Semester (16 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- KIN 1004 - Introduction to Kinesiology and Health Promotion *(2CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
  or
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Spring Semester (16 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- COM2 0000 - Oral Communication *(3CR)*
- EDFD 2020 - Foundations of Education *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Sophomore Year

Fall Semester (14 Credits)

- EDFD 2100 - Educational Psychology *(3CR)*
- HLED 1006 - Personal Health *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- KIN 2030 - Motor Learning *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

Spring Semester (14.33 Credits)

- COMM 1030 - Interpersonal Communication *(3CR)*
- FCSC 1141 - Principles of Nutrition (SCI Elective) *(3CR)*
- HLTK 1625 - American Heart Association BLS for the Provider *(.33CR)*
- HU 0000 - Humanities *(3CR)*
- ITEC 2360 - Teaching and Learning with Educational Technology *(3CR)*
- PEPR 2460 - Field Experience (Physical Education) *(1-2CR)*

Total Program Credits (60.33 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Physics, A.S.

Freshman Year

Fall Semester (14 Credits)

- CHEM 1020 - General Chemistry I *(4CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 2200 - Calculus I (MATH) *(4CR)*
- COM1 0000 - Written Communication *(3CR)(6CR for AA)*

Spring Semester (15 Credits)

- MATH 2205 - Calculus II *(4CR)*
- PHYS 1310 - College Physics I (SCI) *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- COM2 0000 - Oral Communication *(3CR)*

Sophomore Year

Fall Semester (17 Credits)

- SSC 0000 - Social Science *(3CR)*
- MATH 2210 - Calculus III *(4CR)*
- PHYS 1320 - College Physics II *(4CR)*
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives (3CR)
  Program electives must be chosen from the following departments: ASTR, BIOL, CHEM, COSC, ES, GEOL, MATH, PHYS, GEOG, ENTK

Spring Semester (14 Credits)

- PHYS 2310 - Physics III: Waves and Optics *(4CR)*
  or
- PHYS 2320 - Physics IV: Modern Physics *(3CR)*
- MATH 2250 - Elementary Linear Algebra *(3CR)*
  or
- MATH 2310 - Applied Differential Equations I *(3CR)*
- PEL 0000 - Program Electives (7CR)
  Program electives must be chosen from the following departments: ASTR, BIOL, CHEM, COSC, ES, GEOL, MATH, PHYS, GEOG, ENTK

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

To obtain a degree in physics, a student must obtain a grade of "C" or better in all major requirements.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Political Science, A.A.

Freshman Year

Fall Semester (16-17 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- POLS 1000 - American and Wyoming Government (CNST) *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Spring Semester (15 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- POLS 1250 - Introduction to Comparative Government *(3CR)*
- POLS 2310 - Intro to International Relations (HU) *(3CR)*
- SSC 0000 - Social Science *(3CR)*

Sophomore Year

Fall Semester (16 Credits)

- PEL 0000 - Program Electives
  (3CR) from the POLS Prefix
  (9CR) from any area excluding POLS
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or

- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*

Spring Semester (13 - 14 Credits)

- ENGL 1020 - English Composition II (COM1) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives (6CR) from any area excluding POLS
- POLS 2460 - Intro to Political Philosophy *(3CR)*

Total Program Credits (60 - 62 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Practical Nursing Certificate

Prerequisite Courses (21 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HMDV 1300 - On Course *(2CR)*
- HLTK 1300 - Nursing Boot Camp *(1CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Fall Semester (10 Credits)

- NURS 1100 - Professional Nursing Care in Health Promotion *(10CR)*

Spring Semester (10 Credits)

- NURS 1200 - Professional Nursing Care of the Patient with Chronic Illness *(10CR)*

Total Program Credits (20 credits) (41 Credits with Prerequisites)

Note:

Upon admission to the Nursing Program, the normal length of this certificate is 9-11 months.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Pre-Dentistry, A.S.

Freshman Year

Fall Semester (18 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (17 Credits)

- BIOL 2022 - Animal Biology *(4CR)*
  or
- BIOL 2023 - Plant and Fungal Biology *(4CR)*
- CHEM 1030 - General Chemistry II *(4CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
- HU 0000 - Humanities *(3CR)*

Sophomore Year

Fall Semester (17 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- WL 0000 - World Language *(4CR)* *

Spring Semester (16 Credits)

- GEL 0000 - General Education Electives (3CR)
- HW 0000 - Health and Wellness *(1CR)*
- MOLB 2210 - General Microbiology *(4CR)*
- PHYS 1120 - General Physics II *(4CR)*
- WL 0000 - World Language *(4CR)* *

Total Program Credits (68 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

* Students should refer to the requirements of their professional school or transfer institution. To obtain a degree in Pre-Dentistry or Pre-Medicine, a student must receive a grade of "C" or better in all major requirements.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Pre-Medicine, A.S.

Freshman Year

Fall Semester (18 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (17 Credits)

- BIOL 2022 - Animal Biology *(4CR)*
  or
- BIOL 2023 - Plant and Fungal Biology *(4CR)*
- CHEM 1030 - General Chemistry II *(4CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Sophomore Year

Fall Semester (17 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HU 0000 - Humanities *(3CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*
- WL 0000 - World Language *(4CR)* *

Spring Semester (16 Credits)

- GEL 0000 - General Education Electives (3CR)
- HW 0000 - Health and Wellness *(1CR)*
- MOLB 2210 - General Microbiology *(4CR)*
- PHYS 1120 - General Physics II *(4CR)*
- WL 0000 - World Language *(4CR)* *

Total Program Credits (68 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

* Students should refer to the requirements of their professional school or transfer institution. Additionally, some Medical programs will require Statistics and may encourage a Calculus I course in lieu of Physics II.
To obtain a degree in Pre-Dentistry or Pre-Medicine, a student must receive a grade of "C" or better in all major requirements.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of

Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Pre-Occupational Therapy, A.S.

Freshman Year

Fall Semester (16-17 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Spring Semester (15 Credits)

- CHEM 1000 - Intro to Chemistry *(4CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- OCTH 2000 - Introduction to Occupational Therapy *(2CR)*

Sophomore Year

Fall Semester (15 Credits)

- GEL 0000 - General Education Electives (3CR)
- HW 0000 - Health and Wellness *(1CR)*
- PSYC 2300 - Psychology of Child Development *(3CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

Spring Semester (16 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HIST 1120 - Western Civilization II (HU) *(3CR)*
  or
- HIST 1110 - Western Civilization I (HU) *(3CR)*
- PSYC 2340 - Psychopathology *(3CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Total Program Credits (62-63 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

*Although MATH 1000 fulfills the Math requirement for this degree, it is not a sequential course. Students completing this course will have to complete MATH 1400 if they desire to pursue higher-level MATH courses.
**Students wishing to apply to the UND Doctor of Occupational Therapy program will need to have completed 9 credit hours of fine arts/humanities courses (3 hours of which needs to be simultaneously designated as Diversity of Human Experience credit) that adhere to the University of North Dakota's Essential Studies program and are transferable. Please work with a pre-OT advisor to ensure appropriate course selection.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Pre-Optometry, A.S.

Freshman Year

Fall Semester (18 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Spring Semester (14 Credits)

- BIOL 2022 - Animal Biology *(4CR)*
  or
- BIOL 2023 - Plant and Fungal Biology *(4CR)*
- CHEM 1030 - General Chemistry II *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*

Sophomore Year

Fall Semester (15 Credits)

- CHEM 2300 - Intro to Organic Chemistry *(4CR)*
  or
- CHEM 2420 - Organic Chemistry I
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- MOLB 2210 - General Microbiology *(4CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*

Spring Semester (15 Credits)

- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MOLB 2220 - Pathogenic Microbiology *(4CR)*
- PHYS 1120 - General Physics II *(4CR)*
  or
- MATH 2200 - Calculus I (MATH) *(4CR)*

Total Program Credits (62 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

* Students should refer to the requirements of their professional school or transfer institution.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Pre-Pharmacy, A.S.

Freshman Year

Fall Semester (18 Credits)

- BIOL 1010 - General Biology I (SCI) *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)* (or higher)

Spring Semester (18 Credits)

- BIOL 2022 - Animal Biology *(4CR)*
  or
- BIOL 2023 - Plant and Fungal Biology *(4CR)*
- CHEM 1030 - General Chemistry II *(4CR)*
- COM2 0000 - Oral Communication *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
- MOLB 2210 - General Microbiology *(4CR)*

Sophomore Year

Fall Semester (18 Credits)

- CHEM 2420 - Organic Chemistry I
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- MATH 2200 - Calculus I (MATH) *(4CR)*
- SSC 0000 - Social Science *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

Spring Semester (20 Credits)

- CHEM 2440 - Organic Chemistry II *(4CR)*
- FA 0000 - Fine Arts *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MOLB 2220 - Pathogenic Microbiology *(4CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Total Program Credits (74 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

This degree does not guarantee that a student has met all the prerequisites for admission to any pharmacy school.
***Exact entry-level course is determined by ACT or placement exam scores.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Pre-Physical Therapy, A.S.

Freshman Year

Fall Semester (18 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Spring Semester (17 Credits)

- BIOL 2022 - Animal Biology *(4CR)*
  or
- BIOL 2023 - Plant and Fungal Biology *(4CR)*
  or
- MOLB 2210 - General Microbiology *(4CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- CHEM 1030 - General Chemistry II *(4CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- MATH 1405 - Trigonometry (MATH) *(3CR)*

Sophomore Year

Fall Semester (17 Credits)

- HU 0000 - Humanities *(3CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- PSYC 2300 - Psychology of Child Development *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*

Spring Semester (15 Credits)

- FA 0000 - Fine Arts *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PHYS 1120 - General Physics II *(4CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Total Program Credits (67 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

*Most Physical Therapy programs will require additional Psychology and Cultural Environment courses. Additionally, some Physical Therapy programs will require Statistics and may encourage a Calculus I course in lieu of Physics II. Students should work with the academic advisor to confirm the required pre-requisites for their intended transfer institution.
Students should work with their advisor to review the pre-requisite requirements for their intended professional school(s) or transfer institution(s). Completion of the AS degree from Casper College does not guarantee fulfillment of all pre-requisite requirements for the transfer institution. Additional pre-requisite/recommended courses for Physical Therapy programs are offered by Casper College and also UW Casper.
Summer sessions may be encouraged for completion in 2 years.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Pre-Veterinary, A.S.

Prerequisites

** Students must be able to enroll in MATH 1400 in the first semester to finish this degree in the 4 semesters.
CHEM 1020 and CHEM 1030 must be taken before the third semester to fulfill the prerequisites for CHEM 2420 Organic Chemistry I.

Freshman Year

Fall Semester (14 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (16 Credits)

- BIOL 2022 - Animal Biology *(4CR)*
  or
- BIOL 2023 - Plant and Fungal Biology *(4CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 1405 - Trigonometry (MATH) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- FA 0000 - Fine Arts *(3CR)*

Sophomore Year

Fall Semester (15 Credits)

- CHEM 2420 - Organic Chemistry I
- GEL 0000 - General Education Electives (3CR)
- MOLB 2210 - General Microbiology *(4CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*

Spring Semester (16 Credits)

- HW 0000 - Health and Wellness *(1CR)*
- MOLB 2220 - Pathogenic Microbiology *(4CR)*
- PHYS 1120 - General Physics II *(4CR)*
- SSC 0000 - Social Science *(3CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*

Total Program Credits (61 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

*Elective credits should come from courses that help fulfill pre-requisite requirements at the student's intended transfer institution. These choices should be made in consultation with an academic advisor.
Prior to transfer, it is recommended that students complete CHEM 3750 - Principles of Biochemistry (University of Wyoming course offered in Casper).
The above curriculum will vary to some degree with the student's background and experience. For example, some students will not need the beginning mathematics courses and may go directly into calculus. This will save time and permit the student to complete additional courses. Recommended courses include animal production, genetics, microbiology, and comparative chordate anatomy.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Psychology, A.S.

Freshman Year

Fall Semester (16-17 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Spring Semester (15 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- POLS 1000 - American and Wyoming Government (CNST) *(3CR)*
- PSYC 2300 - Psychology of Child Development *(3CR)*
- PSYC 2380 - Social Psychology *(3CR)*
- RELI 1000 - Intro to Religion (HU) *(3CR)*
  or
- GWST 1080 - Introduction to Gender and Women's Studies (HU) *(3CR)*

Sophomore Year

Fall Semester (16 Credits)

- ANTH 1200 - Intro to Cultural Anthropology (SSC) *(3CR)*
  or
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- PEL 0000 - Program Electives (3CR)
- PSYC 2080 - Biological Psychology *(3CR)*
  or
- PSYC 2210 - Drugs and Behavior *(3CR)*
- PSYC 2340 - Psychopathology *(3CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*

Spring Semester (14 Credits)

- GEL 0000 - General Education Electives (3CR)
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives (6CR)
- PSYC 2000 - Research Psychological Methods *(4CR)*

Approved Major Electives

- ADDN 1520 - Anger, Addiction and Trauma *(3CR)*
- PSYC 2155 - Motivational Interviewing *(3CR)*
- PSYC 2050 - Introductory Counseling/Clinical Theories *(3CR)*
- PSYC 2200 - Human Sexuality *(3CR)*
- SOC 1100 - Social Problems *(3CR)*
- SOC 2350 - Race and Ethnic Relations *(3CR)*
- SOC 2400 - Criminology *(3CR)*

Total Program Credits (61-62 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Radiography, A.S.

Prerequisite Courses: (19 Credits)

Must be completed before starting the RDTK program

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HLTK 1200 - Medical Terminology *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- RDTK 1500 - Introduction to Radiologic Technology *(1CR)*

- ZOO 2015 - Human Anatomy (SCI) *(4CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*
- ATI Test of Essential Skills (TEAS)- proficient or higher

General Education Courses: (16 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HU 0000 - Humanities *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
  or
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

First Year

These courses are taken after acceptance into the program

Summer Semester (6.33 Credits)

10 weeks beginning mid-May

- HLTK 1625 - American Heart Association BLS for the Provider *(.33CR)*
- RDTK 1530 - Patient Care and Management *(1CR)*
- RDTK 1580 - Radiographic Positioning I *(3CR)*
- RDTK 1710 - 1st Yr-Clinical Education I *(2CR)*

Fall Semester (12 Credits)

- RDTK 1610 - Radiographic Imaging I *(5CR)*
- RDTK 1680 - Radiographic Positioning II *(3CR)*
- RDTK 1810 - 1st Yr-Clinical Education II *(3CR)*
- RDTK 1830 - Pharmacology for Radiographers *(1CR)*

Spring Semester (14 Credits)

- RDTK 1640 - Radiographic Imaging II *(5CR)*
- RDTK 1910 - 1st Yr-Clinical Education III *(3CR)*
- RDTK 2200 - Sectional Anatomy *(3CR)*
- RDTK 2580 - Radiographic Positioning III *(3CR)*

Second Year

Summer Semester (2 Credits)

- RDTK 2710 - 2nd Yr-Clinical Education IV *(2CR)*

Fall Semester (10 Credits)

- RDTK 2630 - Radiographic Pathology *(3CR)*
- RDTK 2640 - Radiation Biology and Protection *(2CR)*
- RDTK 2810 - 2nd Yr-Clinical Education V *(5CR)*

Spring Semester (7 Credits)

- RDTK 2910 - 2nd Yr-Clinical Education VI *(5CR)*
- RDTK 2930 - Transition from Student to Radiographer *(2CR)*

Total Program Credits (86.33 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

To Continue in the Associate of Science Radiography Program, a student must maintain a cumulative GPA of 2.5 or better and earn a "C" or better in all radiography, allied health, and laboratory science courses.
Summer semesters are required for this program.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see " Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science, and Associate Degree in Nursing.

Ranch and Agrotourism Management Certificate

Fall Semester (16-19CR)

- AGEC 2010 - Farm-Ranch Business Records *(3CR)*
- AGEC 2020 - Farm-Ranch Business Management *(4CR)*
- HOSP 1570 - Human Resource Hospitality Management *(3CR)*
  or

- ANSC 2110 - Beef Production *(3CR)*
- REWM 2000 - Principles of Range Management *(3CR)*
- MKT 2000 - Introduction to Digital Marketing *(3CR)*
- PEL 0000 - Program Electives (1-3CR)

Spring Semester (14-17CR)

- AGEC 2300 - Agricultural Marketing *(3CR)*
- AGRI 2485 - Ranch Management Seminar *(2CR)*
- ANSC 2020 - Feeds and Feeding *(4CR)*
- HOSP 2525 - Recreation and Tourism Planning and Development *(3CR)*
- PEL 0000 - Program Electives (1-4CR)

Summer Semester (3CR)

- ANSC 2470 - Ranch Management Internship (3CR)

Program Electives

- ACCT 1005 - Practical Accounting *(4CR)*
- ACCT 2010 - Principles of Accounting I *(4CR)*
- AGRI 1010 - Computer Technology in Agriculture *(2CR)*
- AGRI 1020 - GPS and GIS in Agriculture *(2CR)*
- AGRI 1101 - Freshman Experience *(2CR)*
- AGRI 1385 - Agriculture Leadership *(2CR)*
- AGTK 1560 - Horse Hoof Trimming *(1CR)*
- AGTK 1570 - Horseshoeing *(2CR)*
- AGTK 1590 - Packing and Outfitting *(2CR)*
- ANSC 1030 - Equine Management *(3CR)*
- ANSC 1100 - Artificial Insemination *(1CR)*
- ANSC 1150 - Animal Diseases *(2CR)*
- ANSC 1160 - Issues in Agriculture *(3CR)*
- BADM 1005 - Business Mathematics I (MATH) *(3CR)*
- HOSP 1570 - Human Resource Hospitality Management *(3CR)*
- MKT 2000 - Introduction to Digital Marketing *(3CR)*
- SOIL 2010 - Introduction to Soil Science *(4CR)*
- ZOO 2450 - Fish and Wildlife Management in the Anthropocene *(4CR)*

Total Program Total (33-39 CR)

Notes

The normal length of this program is 12 months.

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Range Management, A.S.

Freshman Year

Fall Semester (18 Credits)

- ANSC 1010 - Intro to Animal Science *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*
- REWM 2000 - Principles of Range Management *(3CR)*
- BIOL 1010 - General Biology I (SCI) *(4CR)*
  or
- BIOL 1000 - Principles of Biology (SCI) *(4CR)*

Spring Semester (14 Credits)

- AECL 1000 - Agroecology *(4CR)*
- COM2 0000 - Oral Communication *(3CR)*
- HU 0000 - Humanities *(3CR)*
  Choose one course from the list below (4CR)
- ASTR 1050 - Survey of Astronomy (SCI) *(4CR)*
- CHEM 1000 - Intro to Chemistry *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- CHEM 1030 - General Chemistry II *(4CR)*
- GEOG 1010 - Introduction to Physical Geography (SCI) *(4CR)*
- GEOL 1070 - The Earth: Its Physical Environment (SCI) *(4CR)*
- GEOL 1100 - Physical Geology (SCI) *(4CR)*
- PHYS 1050 - Concepts of Physics (SCI) *(4CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*

- PHYS 1310 - College Physics I (SCI) *(4CR)*

Sophomore Year

Fall Semester (14 Credits)

- AGEC 1010 - Agricultural Macroeconomics (SSC) *(3CR)*
- BIOL 2023 - Plant and Fungal Biology *(4CR)*
- BIOL 2400 - General Ecology *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Spring Semester (14 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- PEL 0000 - Program Electives (7CR) Choose from program electives listed below
- SOIL 2010 - Introduction to Soil Science *(4CR)*

Program Electives

- AGEC 2010 - Farm-Ranch Business Records *(3CR)*
- AGEC 2300 - Agricultural Marketing *(3CR)*
- AGRI 1010 - Computer Technology in Agriculture *(2CR)*
- AGRI 1020 - GPS and GIS in Agriculture *(2CR)*
- AGRI 1101 - Freshman Experience *(2CR)*
- AGRI 1385 - Agriculture Leadership *(2CR)*
- AGRI 2475 - Independent Study in Agriculture *(1-3CR) (Max. 3)*
- ANSC 1220 - Livestock Judging II (Advanced) *(3CR)*
- ANSC 2020 - Feeds and Feeding *(4CR)*
- ANSC 2110 - Beef Production *(3CR)*
- ANSC 2120 - Sheep Production *(3CR)*
- ANSC 1020 - Intro to Animal Science II *(3CR)*
- ANSC 1030 - Equine Management *(3CR)*
- ANSC 1200 - Livestock Fitting and Showing *(2CR)*
- ANSC 1210 - Livestock Judging I *(3CR)*
- BIOL 2410 - Intro to Field Ecology *(2CR)*
- COMM 1030 - Interpersonal Communication *(3CR)*
- ZOO 2450 - Fish and Wildlife Management in the Anthropocene *(4CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Respiratory Therapy, A.S.

Prerequisite Courses (17 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HLTK 1200 - Medical Terminology *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
- ZOO 2015 - Human Anatomy (SCI) *(4CR)*
- ZOO 2025 - Human Physiology (SCI) *(4CR)*

Freshman Year

Summer Semester (5 Credits)

- RESP 1500 - Introduction to Respiratory Therapy *(3CR)*
- RESP 1505 - Cardiopulmonary Anatomy & Physiology *(2CR)*

Fall Semester (13 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- RESP 1507 - Respiratory Therapy I *(3CR)*
- RESP 1515 - Respiratory Lab I *(1CR)*
- RESP 1518 - Respiratory Practicum I *(3CR)*
- RESP 1523 - Respiratory Pharmacology *(2CR)*

Spring Semester (16 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
  or
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- RESP 1527 - Respiratory Therapy II *(3CR)*
- RESP 1535 - Respiratory Lab II *(1CR)*
- RESP 1538 - Respiratory Practicum II *(4CR)*
- RESP 1545 - Respiratory Pathophysiology *(2CR)*

Sophomore Year

Summer Semester (6 Credits)

- RESP 2500 - Respiratory Specialty Practicum *(3CR)*
- HU 0000 - Humanities *(3CR)*

Fall Semester (14 Credits)

- CHEM 1000 - Intro to Chemistry *(4CR)*
  or
- PHYS 1050 - Concepts of Physics (SCI) *(4CR)*
- RESP 2507 - Respiratory Therapy III *(3CR)*
- RESP 2510 - Respiratory Pediatrics and Neonatology *(2CR)*
- RESP 2545 - Respiratory Lab III *(1CR)*
- RESP 2548 - Respiratory Practicum III *(4CR)*

Spring Semester (13 Credits)

- FA 0000 - Fine Arts *(3CR)*
- RESP 2557 - Respiratory Therapy IV *(3CR)*
- RESP 2570 - Respiratory Simulations
- RESP 2575 - Respiratory Lab IV *(1CR)*
- RESP 2578 - Respiratory Practicum IV *(4CR)*

Total Program Credits (67 Credits)(with prerequisites 84 total credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Program Note:

To continue in the Associate of Science Respiratory Therapy Program, a student must maintain a cumulative GPA of 2.3 or better and earn a "C" or better in all respiratory, allied health, and laboratory science courses.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Social Studies — Secondary Education, A.S.

Freshman Year

Fall Semester (16 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- GEOG 1000 - World Regional Geography (SSC) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- POLS 1000 - American and Wyoming Government (CNST) *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Spring Semester (15 - 16 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- EDFD 2020 - Foundations of Education *(3CR)*
- EDFD 2100 - Educational Psychology *(3CR)*
- EDST 2250 - Educational Assessment *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*

Sophomore Year

Fall Semester (17 Credits)

- ECON 1010 - Macroeconomics (SSC) *(3CR)*

- GEOG 1010 - Introduction to Physical Geography (SCI) *(4CR)*
- ITEC 2360 - Teaching and Learning with Educational Technology *(3CR)*
- PEL 0000 - Program Electives (3CR)
- WL 0000 - World Language *(4CR)* (Same language)(ASL accepted)

Spring Semester (17 Credits)

- EDEX 2484 - Intro to Special Education *(3CR)*
- EDUC 2100 - Practicum in Teaching *(4CR)*
- ECON 1020 - Microeconomics (SSC) *(3CR)*
- PEL 0000 - Program Electives (3CR)
- WL 0000 - World Language *(4CR)* (Same language) (ASL accepted)

Program Electives

- HIST 1110 - Western Civilization I (HU) *(3CR)*
- HIST 1120 - Western Civilization II (HU) *(3CR)*
- HIST 1211 - United States to 1865 (CNST) *(3CR)*
- HIST 1221 - United States from 1865 (CNST) *(3CR)*
- HIST 1251 - Wyoming History (CNST) *(3CR)*
- POLS 2000 - Current Issues in American Government *(3CR)*
- POLS 2200 - Politics of Europe *(3CR)*
- POLS 2310 - Intro to International Relations (HU) *(3CR)*
- PSYC 2200 - Human Sexuality *(3CR)*
- PSYC 2300 - Psychology of Child Development *(3CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*

Total Program Credits (65 -66 Credits)

Program Note:

Student advisement for secondary education is done by the department which offers the subject area that the student wants to teach.
Transfer note: The University of Wyoming requires a major core area of 15 credits in one subject.

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Social Work, A.S.

Freshman Year

Fall Semester (16 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- SOC 1101 - Education and the Good life: A First-Year Seminar (HU) *(3CR)*

Spring Semester (15 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)* (or higher)
- PSYC 2080 - Biological Psychology *(3CR)*
- SOC 1100 - Social Problems *(3CR)*
- SOWK 2000 - Intro to Social Work *(3CR)*

Sophomore Year

Fall Semester (16 Credits)

- FA 0000 - Fine Arts *(3CR)*
- ECON 1010 - Macroeconomics (SSC) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- RELI 1000 - Intro to Religion (HU) *(3CR)*
  or
- GWST 1080 - Introduction to Gender and Women's Studies (HU) *(3CR)*

- SOC 2112 - Environmental Sociology *(3CR)*
  or
- SOC 2400 - Criminology *(3CR)*
  or
- SOC 2350 - Race and Ethnic Relations *(3CR)*

Spring Semester (13 Credits)

- PSYC 2340 - Psychopathology *(3CR)*
- SOC 2325 - Marriage and Family *(3CR)*
- SOWK 2025 - Social Work Capstone *(3CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Sociology, A.A.

Freshman Year

Fall Semester (14 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
  or
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- SOC 1000 - Sociological Principles (SSC) *(3CR)*
- SOC 1101 - Education and the Good life: A First-Year Seminar (HU) *(3CR)*

Spring Semester (15 - 16 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
  or
- MATH 1400 - College Algebra (MATH) *(4CR)*
- PSYC 1000 - General Psychology (SSC) *(3CR)*
- SOC 1100 - Social Problems *(3CR)*
- SOC 2325 - Marriage and Family *(3CR)*

Sophomore Year

Fall Semester (15 Credits)

- ANTH 1200 - Intro to Cultural Anthropology (SSC) *(3CR)*
  or
- CRMJ 1001 - Intro to Criminal Justice (SSC) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- SOC 2112 - Environmental Sociology *(3CR)*
- SOC 2350 - Race and Ethnic Relations *(3CR)*
  or
- SOC 2400 - Criminology *(3CR)*

Spring Semester (16 Credits)

- ENGL 1020 - English Composition II (COM1) *(3CR)*
- HIST 1110 - Western Civilization I (HU) *(3CR)*
- RELI 1000 - Intro to Religion (HU) *(3CR)*
  or
- GWST 1080 - Introduction to Gender and Women's Studies (HU) *(3CR)*
- STAT 2050 - Fundamentals of Statistics (MATH) *(4CR)*
  or
- STAT 2070 - Introductory Statistics for Social Science (MATH) *(4CR)*
- PEL 0000 - Program Electives (3CR)
  Choose one from the list below
- PSYC 2380 - Social Psychology *(3CR)*
- PSYC 2210 - Drugs and Behavior *(3CR)*
- PSYC 2340 - Psychopathology *(3CR)*

- PSYC 2155 - Motivational Interviewing *(3CR)*
- PSYC 2200 - Human Sexuality *(3CR)*

Total Program Credits (60 - 61 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Spanish, A.A.

Freshman Year

Fall Semester (15 Credits)

- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
- SPAN 1010 - First Year Spanish I (HU) *(4CR)*

Spring Semester (16 Credits)

- ANTH 1200 - Intro to Cultural Anthropology (SSC) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- SPAN 1020 - First Year Spanish II (HU) *(4CR)*

Sophomore Year

Fall Semester (16 Credits)

- COMM 1030 - Interpersonal Communication *(3CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- PEL 0000 - Program Electives
- SPAN 2030 - Second Year Spanish I *(4CR)*
- SSC 0000 - Social Science *(3CR)*

Spring Semester (13 Credits)

- FA 0000 - Fine Arts *(3CR)*
- SPAN 2040 - Second Year Spanish II *(4CR)*
- SPAN 2140 - Introduction to Reading/Composition and Conversation *(3CR)*
- PEL 0000 - Program Electives

Program Electives

- GEOG 1000 - World Regional Geography (SSC) *(3CR)*
- HIST 1110 - Western Civilization I (HU) *(3CR)*
- HIST 1120 - Western Civilization II (HU) *(3CR)*
- HIST 2115 - Twentieth Century Europe *(3CR)*
- INST 2310 - Introduction to International Relations (HU) *(3CR)*
- POLS 1020 - Issues in Foreign Relations I *(3CR)*
- POLS 1030 - Issues in Foreign Relations II *(3CR)*
- POLS 1200 - Non-Western Political Cultures *(3CR)*
- POLS 2200 - Politics of Europe *(3CR)*
- POLS 2290 - Governments and Politics of Latin America *(3CR)*
- PHIL 1000 - Introduction to Philosophy (HU) *(3CR)*
- RELI 1000 - Intro to Religion (HU) *(3CR)*
- SPAN 2220 - Intermediate Composition and Conversation *(3CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of

Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Strategic Communication, A.A.

Freshman Year

Fall Semester (16 Credits)

- COMM 1000 - Intro to Mass Media (SSC) *(3CR)*
- COMM 1030 - Interpersonal Communication *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 0000 - Math Computation *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

Spring Semester (16 Credits)

- COMM 2010 - Public Speaking (COM2) *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives any course from the COMM prefix (3CR)

Sophomore Year

Fall Semester (15 Credits)

- COMM 1020 - Workplace Communication *(3CR)*
- COMM 2120 - Small Group Communication *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- GEL 0000 - General Education Electives (3CR)
- PSYC 1000 - General Psychology (SSC) *(3CR)*

Spring Semester (13 Credits)

- COMM 1040 - Intro to Communication Theory *(3CR)*
- COMM 2090 - Intro to Persuasion *(3CR)*
- GEL 0000 - General Education Electives (4CR)
- PEL 0000 - Program Electives any course from the COMM prefix (3CR)

Total Program Credits (60 Credits)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Technical Studies, A.A.S.

The Technical Studies Coursework in this AAS may be part of a certificate or 30 credits selected by the student and academic advisor within a technical field of study in the School of Business and Industry.

Freshman Year

Fall Semester (15 credits)

Spring Semester (15 credits)

Sophomore Year

Fall Semester (13 credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- PEL 0000 - Program Electives (10CR) Additional courses within or complementing the core area; to be decided in consultation with an advisor

Spring Semester (17 credits)

- COM2 0000 - Oral Communication *(3CR)*
- SSC 0000 - Social Science *(3CR)*
- HU 0000 - Humanities *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- GEL 0000 - General Education Electives (3-4CR)
  If a 3CR course for MATH or SCI is selected a 4CR GEL is required.
- MATH 0000 - Math Computation *(3CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- HW 0000 - Health and Wellness *(1CR)*

Program Total (60-61 credits)

Note:

For students intending to transfer to the UW CTE BAS program (Career and Technical Studies, Business, or 30 credits or Human Development& Family Science), Education courses may be included within the 30 credits

of Technical Studies Coursework and it is suggested to take STAT 2050 or STAT 2070 and PHYS 1050, PHYS 1100, or PHYS 1210 as part of general education.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

The Art of Sound Recording Certificate

First Semester (12 Credits)

- BADM 2195 - Entrepreneurship *(3CR)*
- MUSC 1024 - The Art of Mixing *(2CR)*
- MUSC 1415 - Intro to Music Technology *(3CR)*
- MUSC 1500 - Introduction to Digital Audio *(2CR)*
- MUSC 2415 - Sound Reinforcement I *(2CR)*

Second Semester (10 Credits)

- MUSC 1435 - Audio Recording *(3CR)*
- MUSC 2410 - Techniques for Live Sound *(2CR)*
- MUSC 2420 - Sound Reinforcement II *(2CR)*
- MUSC 2435 - Advanced Audio Recording *(3CR)*

Total Certificate Credits (22 Credits)

Certificate Graduation Requirements

The normal length of this program is 9 months. For specific graduation requirements see "Degree Requirements".

Theatre Arts, A.A.

Freshman Year

Fall Semester (16 - 17 Credits)

- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- HW 0000 - Health and Wellness *(1CR)* suggested: PEAC 1460 Modern Dance I
- THEA 1050 - Theatre and Dance Townhall *(0CR)*
- THEA 1100 - Acting I (FA) *(3CR)*
- THEA 1250 - Script Analysis and Dramatic Literature *(3CR)*
- THEA 2050 - Theatre Practice *(0-1 CR) (Max. 10)* (1CR)
- PEL 0000 - Program Electives Please choose one of the following: THEA 2220 Stagecraft, THEA 2145 Costume Construction, or MUSC 2415 Sound Reinforcement

Spring Semester (16 Credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
- MATH 1000 - Problem Solving (MATH) *(3CR)*
- THEA 1016 - Theatrical Improvisation *(3CR)*
- THEA 1050 - Theatre and Dance Townhall *(0CR)*
- THEA 1700 - Voice for the Actor *(2CR)*
- THEA 2050 - Theatre Practice *(0-1 CR) (Max. 10)*
- PEL 0000 - Program Electives Please choose one of the following: THEA 1200: Introduction to Stage Design (3CR), THEA 2160: Stage Makeup (3CR), or an approved Special Topics Course (3CR) and THEA 2435: Musical Theatre Dance (1CR) or THEA 1046: Musical Theatre Voice (1CR) or approved Technical Theatre THEA 2475: Directed Special Topics Projects (1CR)

Sophomore Year

Fall Semester (14 - 15 Credits)

- COM2 0000 - Oral Communication *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives Please choose one of the following: THEA 2220: Stagecraft (3CR) or THEA 2145: Costume Construction (3CR) or MUSC 2415: Sound Reinforcement I (2CR) *Students are required to enroll in a program elective not previously completed in the prior fall term.
- SCI 0000 - Reason and Inquiry in Science *(4CR)*

- THEA 1050 - Theatre and Dance Townhall *(0CR)*
- THEA 2050 - Theatre Practice *(0-1 CR) (Max. 10)* **This course can only be taken for 0 credits if the student has already taken 2 credits of 2050.
- THEA 2310 - Auditioning *(2CR)*

Spring Semester (15 Credits)

- HU 0000 - Humanities *(3CR)*
- PEL 0000 - Program Electives
  Please choose one of the following: THEA 1200 Introduction to Stage Design (3CR), THEA 2160 Stage Makeup (3CR), or an approved Special Topics Course (3CR)
  *Students are required to enroll in a program elective not previously completed in the prior spring term.
- SSC 0000 - Social Science *(3CR)*
- THEA 1050 - Theatre and Dance Townhall *(0CR)*
- THEA 2050 - Theatre Practice *(0-1 CR) (Max. 10)* **This course can only be taken for 0 credits if the student has already taken 2 credits of 2050.
- THEA 2100 - Acting II *(3CR)*
- THEA 2395 - Introduction to Theatre Directing *(3CR)*

Total Program Credits (62 - 63 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."
Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Welding Certificate

Fall Semester (22 credits)

- WELD 1555 - Welding Technology Safety and Problem Solving *(1.5CR)*
- WELD 1650 - Print Reading and Welding Symbols *(2CR)*
- WELD 1710 - Oxyacetylene Welding and Cutting *(1.5CR)*
- WELD 1755 - Shielded Metal Arc Welding *(8CR)*
- WELD 1770 - Gas Metal/Flux Core Arc Welding *(5CR)*
- WELD 2510 - Pipe Welding I *(4CR)*

Spring Semester (21 credits)

- WELD 1785 - Gas Tungsten Arc Welding (GTAW) *(5CR)*
- WELD 1860 - Welding Fabrication *(5CR)*
- WELD 1910 - Specialized Welding and Joining *(3CR)*
- WELD 2500 - Structural Welding *(3CR)*
- WELD 2520 - Pipe Welding II *(5CR)*

Total Program Credits (43 credits)

Graduation Requirements

For specific graduation requirements see "Degree Requirements".

Welding, A.A.S.

Freshman Year

Fall Semester (22 credits)

- WELD 1555 - Welding Technology Safety and Problem Solving *(1.5CR)*
- WELD 1650 - Print Reading and Welding Symbols *(2CR)*
- WELD 1710 - Oxyacetylene Welding and Cutting *(1.5CR)*
- WELD 1755 - Shielded Metal Arc Welding *(8CR)*
- WELD 1770 - Gas Metal/Flux Core Arc Welding *(5CR)*
- WELD 2510 - Pipe Welding I *(4CR)*

Spring Semester (21 credits)

- WELD 1785 - Gas Tungsten Arc Welding (GTAW) *(5CR)*
- WELD 1860 - Welding Fabrication *(5CR)*
- WELD 1910 - Specialized Welding and Joining *(3CR)*
- WELD 2500 - Structural Welding *(3CR)*
- WELD 2520 - Pipe Welding II *(5CR)*

Sophomore Year
Fall Semester (11 credits)

- COM1 0000 - Written Communication *(3CR)(6CR for AA)*
  or
- COM2 0000 - Oral Communication *(3CR)*
- SCI 0000 - Reason and Inquiry in Science *(4CR)*
  or
- MATH 0000 - Math Computation *(3CR)*
- PEL 0000 - Program Electives (2CR) Approved electives from the departments of AUTO, AUBR, CNTK, MCHT, OR WELD
- CNST 0000 - US and Wyoming Constitutions *(3CR)*

Spring Semester (12 credits)

- PEL 0000 - Program Electives (4CR) Approved electives from the departments of AUTO, AUBR, CNTK, MCHT, or WELD
- GEL 0000 - General Education Electives (3-4CR)
- HW 0000 - Health and Wellness *(1CR)*
- FA 0000 - Fine Arts *(3CR)*
  or
- HU 0000 - Humanities *(3CR)*
  or
- SSC 0000 - Social Science *(3CR)*

Total Program Credits (64-65 credits)

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

Wildlife and Fisheries Biology and Management, A.S.

Freshman Year
Fall Semester (14 Credits)

- BIOL 1000 - Principles of Biology (SCI) *(4CR)*
- BIOL 1010 - General Biology I (SCI) *(4CR)*
- CNST 0000 - US and Wyoming Constitutions *(3CR)*
- ENGL 1010 - English Composition I (COM1) *(3CR)*
- MATH 1400 - College Algebra (MATH) *(4CR)*

Spring Semester (17 Credits)

- BIOL 2022 - Animal Biology *(4CR)*
- BIOL 2023 - Plant and Fungal Biology *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- COMM 2010 - Public Speaking (COM2) *(3CR)*
- HU 0000 - Humanities *(3CR)*
- MATH 1405 - Trigonometry (MATH) *(3CR)*

Sophomore Year
Fall Semester (14 Credits)

- BIOL 2410 - Intro to Field Ecology *(2CR)*
- ENR 2450 - Principles of Fish and Wildlife Management *(3CR)*
- ZOO 2450 - Fish and Wildlife Management in the Anthropocene *(4CR)*
- HW 0000 - Health and Wellness *(1CR)*
- PEL 0000 - Program Electives
- SSC 0000 - Social Science *(3CR)*

Spring Semester (15 Credits)

- BIOL 2400 - General Ecology *(3CR)*
- FA 0000 - Fine Arts *(3CR)*
- PEL 0000 - Program Electives

Program Electives

- AGTK 1560 - Horse Hoof Trimming *(1CR)*
- AGTK 1570 - Horseshoeing *(2CR)*
- AGTK 1590 - Packing and Outfitting *(2CR)*
- BIOL 2022 - Animal Biology *(4CR)*
- BIOL 2023 - Plant and Fungal Biology *(4CR)*
- ENR 2110 - The Greater Yellowstone *(3CR)*
- BIOL 2111 - Wildlife Techniques *(4CR)*

- BIOL 2120 - Biomedical and Environmental Ethics *(3CR)*
- CHEM 1000 - Intro to Chemistry *(4CR)*
- CHEM 1020 - General Chemistry I *(4CR)*
- CHEM 2300 - Intro to Organic Chemistry *(4CR)*
- CMAP 1750 - Excel Basics *(1CR)*
- CRMJ 1001 - Intro to Criminal Justice (SSC) *(3CR)*
- CRMJ 2130 - Criminal Investigation I *(3CR)*
- ENGL 1020 - English Composition II (COM1) *(3CR)*
- ENGL 2005 - Writing in Technology and the Sciences (COM1) *(3CR)*
- ENR 1200 - Environment (SCI) *(4CR)*
- ENR 2000 - Environment and Society *(3CR)*
- ENTO 1001 - Insect Biology *(4CR)*
- FIRE 1810 - Introduction to Wildland Fire Fighting *(3CR)*
- FIRE 1830 - Intermediate Wildland Fire Behavior *(3CR)*
- GEOL 1100 - Physical Geology (SCI) *(4CR)*
- GEOL 2030 - Introduction to Hydrology *(3CR)*
- GEOL 2050 - Principles of Paleontology *(3CR)*
- GEOL 2070 - Oceanography *(4CR)*
- GIST 1060 - Introduction to Remote Sensing and Drones *(3CR)*
- GIST 1080 - Introduction to GPS and Maps *(3CR)*
- GIST 1100 - Introduction to GIS *(4CR)*
- GIST 1110 - Management and Implementation of GIS *(4CR)*
- GIST 2100 - Advanced GIS *(4CR)*
- GIST 2150 - Map Use and Analysis *(3CR)*
- HUMN 1030 - Environmental Humanities (HU) *(3CR)*
- MATH 2200 - Calculus I (MATH) *(4CR)*
- MOLB 2210 - General Microbiology *(4CR)*
- MOLB 2220 - Pathogenic Microbiology *(4CR)*
- PHYS 1110 - General Physics I (SCI) *(4CR)*
- SOC 2112 - Environmental Sociology *(3CR)*
- SOIL 2010 - Introduction to Soil Science *(4CR)*
- REWM 2000 - Principles of Range Management *(3CR)*

Total Program Credits (60 Credits)

Note:

All general education courses must be passed with a "C" or better. The normal length of this program is two academic years at 15-17 credit hours per semester.

Graduation Requirements:

A minimum of 60 approved semester credits are required for graduation. For specific graduation requirements see "Academic Information" and "Degree Requirements."

Only courses numbered 1000 or above can be used toward the Associate of Arts, Associate of Science, Associate of Business, Associate of Fine Arts, Associate of Applied Science and Associate Degree in Nursing.

ACCT 1005 Practical Accounting *(4L)(4CR)* Examine the fundamental concepts and procedures used in the preparation of basic financial statements of business entities. This course also covers payroll and employer payroll tax expenses. This course will provide a good foundation for ACCT 2010. No credit will be given for ACCT 1005 if the student has previously earned credit for ACCT 2010 or its equivalent. All

ACCT 2010 Principles of Accounting I *(4L)(4CR) [E]* Examines the fundamental concepts and procedures used in the preparation of the basic financial statements of business entities. Covers generally accepted accounting principles, accounting terminology, the usefulness of financial statements, and the role that judgment plays in accounting.
Prerequisites: A "C" or better in ACCT 1005 or MATH 0930, or an ACT Math Score of 23 or better, or an appropriate Placement exam score within the past year.

ACCT 2020 Principles of Accounting II *(4L)(4CR) [E]* A continuation of ACCT 2010. Accounting for corporations and partnerships. Examines reports and information needed by the management of a business to make good decisions. The role accounting information plays in aiding the functions of planning, budgeting, and control is examined.
Prerequisites: ACCT 2010.

ACCT 2110 QuickBooks Accounting *(3L)(3CR)* This course uses the cloud-based version of QuickBooks Online. QuickBooks Online will be used to create a company and record sales, receivables and payables, and purchases for a service-type business.
Prerequisites: ACCT 1005 or ACCT 2010 or either of these courses taken concurrently, or permission of the instructor.

ACCT 2115 Advanced QuickBooks *(3L)(3CR)* This course is an advanced course that uses the cloud-based version of QuickBooks Online. It is a continuation of ACCT 2110, QuickBooks Accounting, that includes managing inventory, budgets, payroll, end-of-period accounting, and other advanced functions of QuickBooks Online.
Prerequisites: ACCT 2110

ACCT 2230 Intermediate Accounting I *(4L)(4CR) [E]* A study of accounting principles and procedures with emphasis on analysis, interpretation, and controls. Financial statements are studied in detail from both the theoretical and practical standpoints, with a critical examination and evaluation of areas covered. (Fall semester.)
Prerequisites: ACCT 2020 or ACCT 2510

ACCT 2420 Intermediate Accounting II *(4L)(4CR) [E]* This course is an in-depth study of accounting principles and financial topics such as liabilities, leases, pensions, and income tax. Financial statements are studied in detail from both theoretical and practical standpoints, with a critical examination and evaluation of areas covered. This class is a continuation of ACCT 2230. Spring
Prerequisites: ACCT 2230.

ACCT 2430 Income Tax *(3L)(3CR)* This course is an introduction to federal taxation of the income of individuals. Examples and problems illustrate tax laws. Computer applications may be used to illustrate specific examples.

ACCT 2460 Payroll Accounting *(3L)(3CR)* This course examines the fundamental concepts and procedures used in payroll accounting. Usually, payroll is the largest expense of most businesses and a continuing management challenge in terms of cost control. This course will explore payroll laws and recordkeeping requirements, running a payroll, payroll reporting and accounting procedures, and payroll systems and policies. Spring
Prerequisites: ACCT 1005, ACCT 2010, or permission of the instructor.

ACCT 2480 Cooperative Education *(1-3L)(1-3CR) (Max. 6)* The student is afforded the opportunity to gain practical, on-the-job experience under the supervision of the accounting program coordinator and employer. A minimum of 80 hours of on the-job training represents one semester hour. The student must maintain 12 credit hours with a 2.0 GPA during the semester.
Prerequisites: Full-time accounting major and permission of the program coordinator.

ACCT 2510 Accounting for Bookkeepers *(4L)(4CR)* This course is designed to provide a foundation in financial accounting and tax for individuals wishing to have a career in bookkeeping. It completes the financial accounting topics started in ACCT 2010.
Prerequisites: ACCT 2010 or ACCT 1005

ACCT 2800 Certified Bookkeeper Exam Review *(3L)(3CR)* The Certified Bookkeeper Exam Review is a course that will prepare students for the Certified Bookkeeper Exam that is administered by the American Institute of Professional Bookkeepers. Topics covered include adjustments, error correction, payroll, depreciation, inventory and internal controls.
Prerequisites: ACCT 1005 or ACCT 2010

ADDN 1020 Foundations of Substance Use Disorders Counseling I *(3L)(3CR)* The history of addictive disorders along with the contexts in which prevention and treatment evolved, provide a foundation for understanding the present conditions in the profession, and the framework for understanding future evolution. This includes the knowledge of how the profession developed from various non-professional experiences, how other disciplines succeeded or failed in dealing with addictive disorder, as well as the social and political forces that impacted upon service delivery.

ADDN 1050 Crime and Drugs *(3L)(3CR)* This course provides students with an opportunity to explore human behavior from an addiction and criminal justice perspective. This course will provide an in-depth analysis of evidence-based crime policy with coverage of drug use, crime victimization, and incarceration trends.

ADDN 1520 Anger, Addiction and Trauma *(3L)(3CR)* This course provides students with an opportunity to explore anger and trauma from an addiction perspective.

ADDN 2005 Group Process *(3L)(3CR)* This course provides students with an opportunity for the study of groups and group process. These topics include, but are not limited to: development of groups, group work, group dynamics, group leadership, group process, groups for children, adolescents, adults and elderly, and specialty groups and theoretical perspectives of groups.
Prerequisites: PSYC 2155

ADDN 2010 Addictions Assessment *(3L)(3CR)* Provides an overview of the process of assessment of addictive behaviors including alcohol and drugs, smoking, and eating disorders. Foci are on the behavioral, psychological/cognitive-expectational, and physiological components of specific addictive behaviors.
Prerequisites: Seven credit hours of psychology.

ADDN 2015 Ethics and Professional Issues *(3L)(3CR)* Provides an opportunity for study of selected ethical and professional topics in counseling.

ADDN 2100 Foundations of Substance Use Disorder Counseling II *(3L)(3CR)* Introduces the profession of addictive disorders and the development the knowledge of the local health and social service delivery systems (especially the addiction and prevention systems), educational systems, criminal justice systems, and related professional, to better provide comprehensive services to clients/patients. Legal requirements and professional attitudes regarding these systems and the skills to accept, and make, appropriate referrals are essential for providing quality prevention and treatment services.

ADDN 2155 Motivational Interviewing *(3L)(3CR)* Behavioral change is a goal of many human service professionals. This course will examine the process of how change occurs and how to apply evidence-based practices to assist clients with the change process thorough the use of motivational interviewing. Through a combination of lecture, skill practice, discussion, and personal exploration, this course will serve as a 'hands on' experience for the change process.
Cross-listed: PSYC 2155

ADDN 2470 - Addiction Practicum *(1L, 4LB)(3CR)*

Advanced addictionology students integrate previous academic learning in a scheduled and structured supervised experience in a cooperating treatment agency or facility under the supervision of a licensed professional. Students will serve a minimum of 150 hours during the semester and also attend one weekly 50-minute seminar class session. Students are required to document being addiction free for a minimum of 18 months prior to enrollment. S/U grading only.

Prerequisites: Permission of the instructor.

AECL 1000 Agroecology

(3L, 2LB)(4CR) [E] Introduces ecological interactions that affect food producing (agricultural) systems. Lectures and laboratory exercises study the various biological components and the science of sustainable agricultural production. Features differences between developed and developing countries. Explores crises and challenges facing agriculture and global society.

AGRI 1010 Computer Technology in Agriculture *(2L)(2CR) [E]*

Introduces and familiarizes students with computer applications and programs that can practically be used in agriculture. This course exposes students to other types of technology used in agricultural practices such as UAS and precision agriculture.

AGRI 1020 GPS and GIS in Agriculture

(1L, 2LB)(2CR) A look at applications of GIS and GPS technology as it pertains to the agricultural industry. Students will learn basic GIS, GPS and cartographic principles and apply them to help solve problems or answer questions in the Ag industry. Also will use other technologies such as GPS collars to track livestock grazing and remote sensed satellite imagery to help ascertain the health of grazing lands and estimate AUMs.

Prerequisites: AGRI 1010 or permission of the instructor.

AGRI 1101 - Freshman Experience *(2L)(2CR)*

Orientation to college life at Casper College, including the understanding and utilization of resources that promote College success. Designed to promote success in achieving career objectives and perseverance for degree completion. Promotes recognition of changes required in moving from high school to college.

AGRI 1385 Agriculture Leadership *(2L)(2CR)*

Theory and practice in leadership and communications for future professional who much work effectively in leadership and supervisory roles with people in agricultural business, industry, government agencies, and education. Students will learn contemporary leadership theories and practice oral and written commutations skills through demonstrations, interviews, and parliamentary procedure and research agricultural topics of interest to the student.

AGRI 1465 Introduction to Undergraduate Research *(2L,2LB)(3CR)*

Introduction to Undergraduate Research is designed to teach students the fundamentals of research design, execution, and evaluation necessary to conduct, interpret, critically assess, and apply research to evidence-based practice. The course begins with an overview of research classification, writing, and ethics. Students will explore research databases and learn how to search for appropriate journal articles necessary for preparing a literature review. Informed consent, privacy, and institutional review boards will be discussed. Additionally, students will work through the research design; core elements such as reliability, validity, bias, sampling, and statistical significance will be explored. The course will conclude with the highlighting presentation methods such as delivery of peer-review research paper, grant proposal, and/or presentation.

Prerequisites: ANSC 1010 or by instructor permission.

AGRI 2465 Advanced Undergraduate Research

(2L,2LB)(3CR) This course builds on the core elements of academic research across disciplines. Emphasis is placed on identifying research questions, engaging with scholarly literature, designing research methodologies, ethical considerations and proposal writing. This course culminates in a research project proposal/presentation under the mentorship of a faculty advisor.

Prerequisites: ANSC 1010 and AGRI 1465 or by instructor permission.

AGRI 2475 Independent Study in Agriculture

(1-3L)(1-3CR) (Max. 3) A comprehensive research study. Upon completing the project, the student should present a paper and oral seminar to a committee selected by the project instructor. The problem and amount of credit received must have the approval of the instructor.
Prerequisites: Permission of the instructor.

AGRI 2485 Ranch Management Seminar

(1L, 2LB)(2CR) This seminar style course will bring together all of the RMC candidate's coursework, professional interests and focus into one course. The CC faculty and successful professionals from around the United States will be used as resources and guest speakers in order to ready and push the candidates for their internship and professional career. Candidates of the RMC Program will be required to make a major presentation and defense, of a subject/self study, decided upon themselves and their major professor, to the CC Agriculture Department during this course Only offered in the Spring Semester

AGEC 1010 Agricultural Macroeconomics (SSC)

(3L)(3CR) [E] Introduces students to the field of economics and how human behavior drives markets. Key macroeconomic concepts of financial markets, inflation, unemployment, gross domestic product, and national income are evaluated. Agricultural examples are primarily utilized with some non-agricultural examples.

AGEC 1020 Agricultural Microeconomics (SSC)

(3L)(3CR) [E] Introduces students to how firms and households behave economically in the environment in which they operate. Key microeconomic concepts of production and consumption theory, market structures, and governmental impact on firms and households are evaluated. Agricultural examples are primarily utilized with some non-agricultural examples.

AGEC 1100 Intro to Computerized Ag Records

(3L)(3CR) This course is an introduction to farm and ranch computerized records management. It covers basic farm/ranch accounting functions including all financial statements (flow of funds, income statement and balance sheet). The course compares cash versus accrual accounting and the benefits of each. The focus of this course is to develop and reinforce accounting and record management principles by utilizing the microcomputer and entering case farm/ranch data.

AGEC 2010 Farm-Ranch Business Records

(3L)(3CR) [E] The mechanics of farm record keeping and its use as a management tool. The laboratory exercises are actual problems in farm and ranch management and record keeping.

AGEC 2020 Farm-Ranch Business Management

(3L, 2LB)(4CR) [E] Economic principles and business methods applied to analyze firms and operations. Will utilize practical problem solving techniques for variety of management problems.

AGEC 2300 Agricultural Marketing

(3L)(3CR) An introduction to agricultural markets and marketing. Topics include the structure of United States agriculture, prices and marketing costs, government policy's influence on marketing, effects of supply and demand on marketing, livestock and crop marketing, and risk management.
Prerequisites: Sophomore standing.

AGTK 1560 Horse Hoof Trimming

(.5L, 1LB)(1CR) A complete course in horse foot trimming, including the physiology of the feet and legs, unsoundness, hoof care, equipment and the actual trimming and shoe removal on live horses and mules. Offered once per year in the Fall semester.

AGTK 1570 Horseshoeing

(1L, 2LB)(2CR) A complete course in horseshoeing, including the physiology of the feet and legs, unsoundness, hoof care, shoeing equipment, and the actual shoeing of live horses. Taught by a graduate of an accredited horseshoeing school.

AGTK 1580 Intro to Outdoor Recreation: Guide Outfitting *(3L)(3CR)* This course is designed to familiarize the student with the outdoor recreational guide industry. Emphasis will be placed on the use of horses and mules in the outdoor guiding industry. This course is meant to be a preliminary course to an actual hands-on Outfitting/Guide Curriculum.

AGTK 1590 Packing and Outfitting *(0.5L, 3.5LB)(2CR)* A course dealing with the principles and techniques involved in the use of horses as a form of transportation on the ranch or in the wilderness. Covers equipment and general procedures used in packing.

AIML 1000 Artificial Intelligence and Information Literacy *(3L)(3CR)* This foundational course equips students with the essential skills to navigate, evaluate, and responsibly use information and artificial intelligence (AI) tools in academic, professional, and personal life. In an era of rapid digital change, students will develop the critical thinking skills necessary to distinguish between credible sources and misinformation, both human- and machine-generated.

AIML 1010 Intro to Artificial Intelligence *(3L)(3CR)* This course introduces students to the rapidly evolving role of Artificial Intelligence (AI) in professional environments across various industries. Designed for working professionals or those preparing to enter the workforce, the course explores how AI tools can enhance productivity, support informed decision-making, improve communication, and drive innovation in the workplace.

AIML 1020 Ethics in Artificial Intelligence *(3L)(3CR)* This course explores the ethical considerations and implications of using Artificial Intelligence. Students explore issues related to privacy, bias, decision-making, and the societal impact of Artificial Intelligence.

AIML 1395 Artificial Intelligence in the Professional Setting *(3L)(3CR)* This course will allow students to apply their knowledge through an AI-driven project. Working individually or in teams, they will identify a real-world problem or professional scenario and develop an AI solution using AI-approved tools
Prerequisites: Consent of Instructor; recommend completion of AIML 1000, 1010, 1020

ANSC 1010 Intro to Animal Science *(3L, 2LB)(4CR)* Course covers the scope of the livestock industry with particular emphasis on breeds and types and management of beef cattle, sheep and wool, swine, dairy cattle, poultry and horses.

ANSC 1020 Intro to Animal Science II *(3L)(3CR)* Course covers fundamental principles of genetics and animal breeding, reproductive physiology, principles of nutrition, and digestion in domestic animals. Topics also include animal health and diseases, and grading and marketing methods of slaughter and feeder animals.

ANSC 1030 Equine Management *(3L)(3CR) [E]* A basic course covering the equine industry, including classes and breeds, selection with form to function, care and management, conformation and unsoundness, health and diseases, reproduction, and feeding and nutrition.

ANSC 1100 Artificial Insemination *(2LB)(1CR)* A complete course in artificial insemination, including class work in animal breeding, physiology, nutrition, and beef cattle management, as well as actual insemination work with animals.

ANSC 1130 Equine Management II *(3L)(3CR)* A basic course covering the equine industry, including the history, care and management, reproduction, care and prevention of equine diseases, equine facilities and general equine practices.

ANSC 1150 Animal Diseases *(2L)(2CR)* A survey of the diseases common to this area in cattle, sheep, and horses. Special attention is given to sanitation, prevention, control, and eradication of disease.

ANSC 1160 Issues in Agriculture *(3L)(3CR)* Consists of investigations and discussions with respect to current topics in animal science.

ANSC 1200 Livestock Fitting and Showing *(1L, 2LB)(2CR)* Designed to provide students with the necessary skills to fit and show cattle, sheep, and swine. Emphasis will be placed on the clipping of feeder calves. This course is required for all students planning to exhibit feeder calves at the Arizona National.

ANSC 1210 Livestock Judging I *(1L, 4LB)(3CR)* Comparative appraisal and selection of beef cattle, sheep, hogs, and light horses. Students will be chosen from this class to represent Casper College at regional and national judging contests.

ANSC 1220 Livestock Judging II (Advanced) *(1L,4LB)(3CR)* Advanced study in the principles of livestock selection with emphasis on judging and giving reasons. **Prerequisites:** ANSC 1210, or permission of the instructor.

ANSC 1470 Livestock Practicum *(1L, 4LB)(3CR)* This course is designed to provide experiential learning with livestock management techniques. Areas of focus will include livestock handling and care; evaluation; classification and production of feedstuffs; terminology; care and prevention of illness; animal husbandry; market analysis; equipment management and care. Offered only in the fall

ANSC 2020 Feeds and Feeding *(3L, 2LB)(4CR) [E]* Principles of animal nutrition with emphasis upon practical feeding of livestock. Particular attention is given to feeding livestock in relation to recent discoveries in nutrition, including the functions and importance of vitamins and minerals, and the necessity for proper quantity of protein rations of livestock. Economy in feeding emphasized throughout the course.

ANSC 2110 Beef Production *(3L)(3CR)* A detailed study of the feeding, breeding, marketing, and pedigrees of all major breeds of beef cattle with emphasis on problems peculiar to the beef cattle industry in Wyoming. **Prerequisites:** ANSC 1010 and ANSC 1020.

ANSC 2120 Sheep Production *(3L)(3CR)* A detailed study of care and management of sheep flocks in the Western states, with particular emphasis on problems peculiar to the range sheep industry in Wyoming. **Prerequisites:** ANSC 1020.

ANSC 2130 Swine Production *(3L)(3CR)* Swine production in the United States including production of purebred and commercial swine: breeds, breeding, feeding, marketing, and management. Emphasis is on problems encountered in the production of swine in Wyoming. Spring

ANSC 2230 Livestock Judging III *(4LB)(2CR)* A concentrated study of livestock selection with major emphasis on team competition and national livestock shows. **Prerequisites:** ANSC 1220, or permission of the instructor.

ANSC 2470 Ranch Management Internship (3CR) *(6LB)* Supervised work and learning experience in ranch management related fields that are relevant to student's desired areas of interest.
The internship provides an extension of the academic learning and includes the opportunity to: 1) apply substantial knowledge and skills gained in the academic setting in a supervised, professional work environment, 2) learn and develop new skills outside the classroom, and 3) explore a career field or prepare for a chosen career field through a work experience opportunity. The internship includes a collaborative team consisting of the student, faculty supervisor (course instructor), and a field (site) supervisor who develop acceptable learning objectives, experiences, and evaluation procedures which enable the student to work with in a professionals/mentoring setting. Only offered in the Summer following completion of core Ranch Management Certificate courses.

ANTH 1100 Intro to Biological Anthropology *(3L)(3CR)* Presents basic concepts relating to the origin, evolution, biological nature, and adaptation of the human species.

ANTH 1200 Intro to Cultural Anthropology (SSC) *(3L)(3CR) [E]* Using an ethnological approach, (comparative study of culture), this course surveys the basic concepts of cultural anthropology including cross cultural investigations of kinship, marriage, language, religion, politics, economics, and culture change.

ANTH 1300 Intro to Archaeology *(3L)(3CR)* Provides a background in archaeological theories and methods and explores the ways in which prehistoric material remains can provide an understanding of human behavior.

ANTH 2210 North American Indians *(3L)(3CR) [E]* A survey of North American Indian societies from prehistory to the present. Covers selected prehistoric cultural sequences as well as a general culture-area survey of known historic tribes and a consideration of current issues facing Native American groups.

ANTH 2475 Independent Studies in Anthropology *(1-3L)(1-3CR) (Max. 6)* Provides opportunity for independent reading and more in-depth study in various fields of anthropology.
Prerequisites: Previous anthropology coursework and permission of the instructor.

ART 1000 General Studio Art (FA) *(2L, 4LB)(3CR) [E]* General Art is an introductory art class for non-art majors designed to give a personal, improvisational, and welcoming art experience to everyone. Boost your skill set, leading to new adventures in work and creativity. A variety of media will be covered in this class including, drawing, ceramics, printmaking, and metalsmithing.

ART 1005 Drawing I (FA) *(2L, 4LB)(3CR)* Introductory drawing emphasizing a wide range of drawing materials and methods of visual study. Fundamentals are stressed.

ART 1010 Intro to Art (FA) *(3L)(3CR) [E]* A survey of the arts produced by humans from pre-history through contemporary trends. Emphasis on the basic elements of art and visual literacy through review of a variety of media and architecture. For non-art majors only.

ART 1110 Foundation: Two-Dimensional *(2L, 4LB)(3CR) [E]* Studies and sequential exercises in the basic elements of design: shape, line, value, color, and texture. Exploration of the relationships of these elements with emphasis on composition.

ART 1115 Digital Media (FA) *(2L, 4LB)(3CR)* An introductory course in the use of the Macintosh computer as a design tool to create and manipulate images and combine them.

ART 1120 Foundation: Three Dimensional (FA) *(2L, 4LB)(3CR) [E]* In this course, students are introduced to the fundamental principles of three-dimensional design and their relationship to objects in space. This hands-on course emphasized creative problem solving, employs design strategies, and develops manual building skills. The relationship of the body to the built environment, narrative, and a greater correlation between object and concept are explored. This course encourages exploration, the exchange of ideas, and builds skills that can be applied to a variety of disciplines.

ART 1130 Foundation: Color Theory *(2L, 4LB)(3CR) [E]* Studies and sequential exercises in color theory. Exploration of the relationships of hue, value, and chroma, studied in progressive exercises to enhance student's awareness of color and its aesthetic relationships.

ART 1150 Black and White Film Photography I (FA) *(2L, 4LB)(3CR)* A beginning course in still photography covering the operation of cameras and photographic equipment, processing of black and white films and prints, design and the history of photography. Assignments stress a variety of subjects emphasizing the fine art of photography.
Prerequisites: ART 2145 Digital Photography I

ART 1160 Black and White Film Photography II *(2L, 4LB)(3CR)* A continuation of ART 1150 covering advanced camera and darkroom techniques including the Zone System, manipulated processes such as solarization, multiple printing, photograms, and toning. Emphasis is on the fine print and art of photography.
Prerequisites: ART 1150.

ART 2005 Drawing II *(2L, 4LB)(3CR)* Continuation of the principles of drawing, including contemporary esthetics and the human figure. **Prerequisites**: ART 1005.

ART 2010 Art History I (HU) *(3L)(3CR) [E]* A study of the visual arts produced by humans from prehistoric times to the Gothic Era. This course required for all art majors.

ART 2016 Field Sketching *(2L, 4LB)(3CR)* This course presents the basic drawing skills needed to record accurate observations of the natural environment. These skills can benefit other visual art disciplines and/or serve as a foundation for drawing itself as a major discipline.

ART 2020 Art History II (HU) *(3L)(3CR) [E]* A study visual arts and architecture produced throughout the world from the 13th - 18th centuries. Political, social, and economic factors relative to the visual arts will be considered. This course is required of all art majors.

ART 2023 Collections Management *(3L)(3CR)* This course is a practical study of the duties of a museum collections manager, including the documentation, loaning, digitization, preservation, storage and care of collections.

ART 2035 Art History: The Enlightenment to Postmodern Art *(3L)* A study of the visual arts produced throughout the late 18th to 21st century in Europe and America. Political, social, and economic factors will be considered as they affect artistic style.

ART 2070 Intro to Museology *(3L)(3CR)* The course introduces students to the basic operations of a museum such as collections management, exhibit design, education and engagement, museums as tourist destinations, and an overview of these facilities' history and changing role in society.

ART 2090 Printmaking (FA) *(2L, 4LB)(3CR)* This course is an introduction to a variety of printmaking processes. Students explore new ways of creating imagery and surfaces unique to printmaking. Gaining expertise and control over a range of tools and materials will enable students to explore both consistent and variable editions. Students will study historical and contemporary approaches to printmaking by viewing historical and contemporary works. The course culminates in an editioned print portfolio exchange. (Fall semester.)

ART 2095 Book Structures *(3L)(3CR)* A special topics course covering the art of handmade book structures and archival box creation. Using traditional and nontraditional supplies, assignments stress the importance of synthesizing material, concept, and scale – emphasizing the tactile nature of the format to create a rich and dynamic viewing experience.

ART 2105 Digital Design II *(2L, 4LB)(3CR)* Continued study of the Macintosh computer as a design tool to create and manipulate type and images and combine them. **Prerequisites:** ART 1110, ART 1115

ART 2110 Typography *(2L, 4LB)(3CR) [E]* This course offers students a comprehensive introduction to typography through exploration and experimentation with letterforms and page layout for expressive communication. The course will cover the fundamental typographic principles, font recognition, and analysis of both historical and post-modern design theory. Emphasis will be placed on content, form and technique for effective use of typography in ads, posters, newsletters and other visual communications. Spring **Prerequisites:** ART 1115 Digital Media- this can be taken at the same time

ART 2112 Graphic Design I *(2L, 4LB)(3CR) [E]* Graphic Design is a communication of ideas using type and images. This course offers students a comprehensive introduction to the field of graphic design that stresses theory and creative development in discipline-specific information, hands-on practice, and an understanding of time-honored principles. Although graphic styles and the tools of the graphic design field are constantly evolving, the fundamental structures and principles of good design remain constant. Fall **Prerequisites:** ART 1115, ART 2110

ART 2125 Graphic Design II *(2L, 4LB)(3CR)* This course examines complex and multi-faceted commercial design problems as a means of developing dynamic and innovative solutions. Design projects are analyzed according to their conceptual and graphic composition, and are developed to effectively and creatively communicate a message to a specific audience. May be taken concurrently with Graphic Design III.

ART 2130 Graphic Design III *(2L, 4LB)(3CR)* This course offers students further exploration of concept development and the language of symbols combined with further exploration into the aesthetic issues of type. Emphasis will be placed on content, form and technique for effective use of graphic design and typography in ads, posters, newsletters, desktop publishing and other visual communications.
Prerequisites: ART 2112 and a working knowledge of current software.

ART 2141 Professional Practice in the Arts *(1L)(1CR)* This seminar will focus on practical aspects of artistic practice such as preparing a professional portfolio and resume, generating an exhibition, understanding careers in art and preparing work for museum and/or gallery consideration. This course is required of all art majors.

ART 2145 - Digital Photography I(FA) *(2L, 4LB)(3CR)* Investigation and application of some of the fundamentals of pictorial arrangement and expression within the realm of digital photography. Assignments are based on compositional problems. Some of the primary concerns are pictorial structure, balance, movement, contrast, theme, spatial relationships and color relationships. Additionally, the design and conceptual development of an assignment are emphasized coupled with high quality execution, originality and clarity of presentation.
Prerequisites: ART 1110 Foundation: Two-Dimensional

ART 2146 - Digital Photography II *(2L, 4LB)(3CR)* A continued investigation and application of some of the fundamentals of pictorial arrangement and expression within the realm of digital photography. Assignments are based on compositional problems. Some of the primary concerns are pictorial structure, balance, movement, contrast, theme, spatial relationships and color relationships. Additionally, the design and conceptual development of an assignment are emphasized coupled with high quality execution, originality and clarity of presentation.
Prerequisites: ART 2145 or permission of instructor.

ART 2210 - Painting I (FA) *(2L, 4LB)(3CR)* An introductory painting course presenting a variety of methods and subjects.

ART 2220 - Painting II *(2L, 4LB)(3CR) [E]* An intermediate painting course presenting a variety of methods and subjects.
Prerequisites: ART 2210

ART 2230 - Painting III *(2L, 4LB)(3CR) [E]* A painting course in which emphasis is on the aesthetic concepts of contemporary movements. Students are encouraged to experiment within the framework of selected projects and to explore individual ideas and broaden experience.
Prerequisites: ART 2210, ART 2220, and permission of the instructor.

ART 2240 - Painting IV *(2L, 4LB)(3CR) [E]* A painting course in which emphasis is on the aesthetic concepts of contemporary movements. Students are encouraged to experiment within the framework of selected projects and to explore individual ideas and broaden experience.
Prerequisites: ART 2210, ART 2220, ART 2230, and permission of the instructor.

ART 2310 Sculpture I (FA) *(2L, 4LB)(3CR)* Sculpture I introduces students to the expansive field of sculpture, while also teaching fundamental skills upon which to build a studio practice. Students learn basic woodworking, casting techniques, and conduct various material studies. This course addresses contemporary issues and promotes an atmosphere that is balanced between conceptual development and material explorations.

ART 2320 - Sculpture II *(2L, 4LB)(3CR)* This course exposes students to traditional and contemporary methods of working sculpturally. In this course, students develop a critical dialogue about sculpture and extended media while developing a personal direction in the medium. This course

introduces advanced sculpture techniques, and encourages the deep exploration of ideas, techniques, and materials. **Prerequisites:** ART 1120 and ART 2310.

ART 2341 - Sketches in Clay *(2L, 4LB)(3CR)* This is an introductory class in the fundamentals of traditional and contemporary ceramic making by means of hand building and throwing on the wheel. Students study some of the rich history and traditions of ceramics as well as developing techniques and different firing possibilities. An emphasis on sketching and journaling creative through processes before, during and after lab time has been added to the class.

ART 2345 Art Metal Casting *(2L, 4LB)(3CR)* This course offers a technical perspective on casting's unique possibilities, its place in history, and its role in contemporary object creation. Casting introduces students to diverse methods of casting and mold making. Techniques needed to cast rigid and flexible molds will be addressed through a variety of assignments and sample-based experiments. Students will have the opportunity to cast a variety of materials while being inspired to create concept-driven work in the sculptural format. **Prerequisites:** ART 1120 and ART 2310 or permission of the instructor.

ART 2350 Metalsmithing I(FA) *(2L, 4LB)(3CR)* This course serves as an introduction to the fabrication of non-ferrous metals. In this course, students will engage with materials, techniques, and craft while focusing on innovation and experimentation. This technical approach will include an investigation into the rich history of metalsmithing in conjunction with that application of contemporary techniques. Career development and professional practice skills are an integral part of the curriculum.

ART 2360 Metalsmithing II *(2L, 4LB)(3CR)* This course expands the potential of working with non-ferrous metal through the introduction of various methods of casting, fabricating, and stone setting. Throughout the semester, students will work to develop technical skills while developing a personal direction in the medium. This course encourages a deep exploration of ideas and materials. Career development and professional practice skills are an integral part of the curriculum. **Prerequisites:** ART 2350.

ART 2370 Metalsmithing III *(2L, 4LB)(3CR)* This course focuses on a combination of surface treatments and holloware fabrication processes for non-ferrous metals. Emphasis is placed on form and surface. Students are introduced to metal forming and raising through a variety of assignments and sample-based experiments. Further examination of surface treatments involving enameling, heat treatments, patination, and other diverse processes in the introduction of color on metal. Students are encouraged to explore both the jewelry and sculptural formats as they work with assignments that inspire personal imagery and conceptual ideas. Students improve their fabrication and design skills while practicing innovative experimentation and ideation. **Prerequisites:** ART 2360.

ART 2375 Metalsmithing IV *(2L, 4LB)(3CR)* This course focuses on diverse methods of creating forms and moveable parts in metal through complex fabrication techniques. Students investigate die forming, hinging and clasping mechanisms, tap & die processes, and anticlastic/synclastic raising through a variety of assignments and sample-based experiments. Through these techniques, students gain skills that allow for the creation of lightweight hollow forms, enclosed and moveable containers, and an array of fabrication possibilities for complex forms. Throughout the semester, students are expected to work conceptually as they combine new technologies with previously learned skills. **Prerequisites:** ART 2370.

ART 2395 - Art Portfolio *(1L)(1CR)* This seminar focuses on specific aspects of graphic design and marketing practice including preparing a professional portfolio, resume, understanding careers in graphic design/marketing and preparing work for the designer's portfolio for employment or transferring to a four-year institution. This course is required for all graphic design and marketing majors. **Prerequisites:** Recommend taking the Spring before graduating

ART 2410 Ceramics I (FA) *(2L, 4LB)(3CR) [E]* This is an introductory class in the fundamentals of traditional and contemporary ceramic making by means of hand building and throwing on the wheel. Students study some of the rich history and traditions of ceramics as well as decorating techniques and different firing possibilities.

ART 2420 Ceramics II

(2L, 4LB)(3CR) [E] This is a continuation of Ceramics I, expanding techniques of throwing on the wheel as well as hand building, with more complex assignments. Students start to learn about loading and firing kilns and take more responsibility for firing their projects.
Prerequisites: ART 2410 or permission of the instructor.

ART 2430 Ceramics III

(2L, 4LB)(3CR) [E] This course offers advanced throwing on the wheel and hand building assignments with more independence in kiln firing. High temperature firing techniques and different styles of kilns become available for study.
Prerequisites: ART 2420 or permission of the instructor.

ART 2440 Ceramics IV

(2L, 4LB)(3CR) [E] Students are challenged with advanced throwing or hand building assignments and are required to fire their own work with a technique best suited for the assignments.
Prerequisites: ART 2430 or permission of the instructor.

ART 2445 - Wood Firing

(1LB)(1CR) This is an advanced course teaching different aspects about wood firing techniques. Focus will be on the technical skills needed to load and fire a large wood fire kiln.
Prerequisites: Permission of instructor

ART 2460 Art Field Studies: [Title]

The relationships between visual art and its surroundings are inevitable. Artists have created their work with the very earth beneath their feet for centuries. The subject matter is shaped by the political and religious forces in an environment as well as the landscape itself. Thus, reviewing the material culture and the landscape, in situ, provides the greatest sensory impact and allows for maximum cognitive understanding of inspiration, process, and product. Travel expenses must be paid by stated deadlines to complete the course abroad.

ART 2470 Art Museum Training Internship

(1-3CR) (Max. 6) The internship gives the student exposure to museum work through first hand experience.
Prerequisites: Student must be enrolled in the art department, permission of the instructor, and interview with Nicolaysen Art Museum staff member and instructor.

ART 2480 Special Projects: Drawing

*(*LB,1-3CR) (Max. 6)*
*Laboratory to be arranged. Advanced drawing emphasizing individualized interests and projects. This course is designed for the student who has recently completed all the offered courses in a given area and still requires or wishes continued exploration of an advanced study in that area. The special projects are designed only as a continuation of previous courses, not personal endeavors of the student.
Prerequisites: ART 1005, ART 2050 and permission of the instructor.

ART 2481 Special Projects: Illustration

(1-3CR) (Max. 6) An advanced course in methods and techniques used in illustration with emphasis on developing individual style. This course is designed for the student who has recently completed all the offered courses in a given area and still requires or wishes continued exploration of an advanced study in that area. The special projects are designed only as a continuation of previous courses, not personal endeavors of the student.
Prerequisites: ART 2076 and permission of the instructor.

ART 2482 Special Projects: Painting

(1-3CR) (Max. 6) An advanced painting class for the student wishing to take further painting credit with a specific instructor. This course is designed for the student who has recently completed all the offered courses in a given area and still requires or wishes continued exploration of an advanced study in that area. The special projects are designed only as a continuation of previous courses, not personal endeavors of the student.
Prerequisites: ART 2210, ART 2220, and permission of the instructor.

ART 2483 Special Projects: Printmaking

(1-3CR) (Max. 6) Special projects in advanced relief, intaglio and monotypes, and other printmaking techniques with approval and directional guidance of the instructor. The course involves the development of a total idea and project and the completion of a portfolio of prints. This course is designed for the student who has recently completed all the offered courses in a given area and still requires or wishes continued exploration of an advanced study in that area. The special projects are designed only as a

continuation of previous courses, not personal endeavors of the student.
Prerequisites: permission of the instructor.

ART 2484 Special Projects: Photography *(1-3CR) (Max. 6)*

Students will work on special problems or projects of their own choosing with approval and directional guidance of the instructor. The course involves the development of a total idea and project and the completion of a portfolio of prints. This course is designed for the student who has recently completed all the offered courses in a given area and still requires or wishes continued exploration of an advanced study in that area. The special projects are designed only as a continuation of previous courses, not personal endeavors of the student.
Prerequisites: ART 1160, ART 2095, and permission of the instructor.

ART 2485 Special Projects: Ceramics

(1-3CR) (Max. 6) Assignments are of the student's choice with approval and guidance of the instructor based on credit hours. All work is done and finished at their own pace, meeting with the instructor as needed and at mid-term and finals. This course is designed for the student who has recently completed all the offered courses in a given area and still requires or wishes continued exploration of an advanced study in that area. The special projects are designed only as a continuation of previous courses, not personal endeavors of the student.
Prerequisites: ART 2440 or permission of the instructor.

ART 2487 Special Projects: Sculpture

(1-3CR) (Max. 6) Special problems of the student's own choosing with directional guidance by the instructor. Emphasis will be placed on the development of a total idea, whether it is one work or several. This course is designed for the student who has recently completed all the offered courses in a given area and still requires or wishes continued exploration of an advanced study in that area. The special projects are designed only as a continuation of previous courses, not personal endeavors of the student.
Prerequisites: ART 2320 and permission of the instructor.

ART 2488 Special Projects: Metals *(1-3CR) (Max. 6)*

Special problems in jewelry of the student's own choosing with directional guidance by the instructor. Emphasis on design and technical skills. This course is designed for the student who has recently completed all the offered courses in a given area and still requires or wishes continued exploration of an advanced study in that area. The special projects are designed only as a continuation of previous courses, not personal endeavors of the student.
Prerequisites: ART 2360 and permission of the instructor.

ART 2489 Special Projects: Graphic Design

(1-3CR) (Max. 6) An advanced study further exploring specific design problems with emphasis on development of ideas and flexibility of approach. This course is designed for the student who has recently completed all the offered courses in a given area and still requires or wishes continued exploration of an advanced study in that area. The special projects are designed only as a continuation of previous courses, not personal endeavors of the student.
Prerequisites: ART 2112 and permission of the instructor.

ART 2970 Museum Training Internship

(18LB)(6CR) This course is designed for practical experience in a museum in areas such as collections management, education, development, or exhibition design. For museum/gallery studies majors only.
Prerequisites: ART 2070.

ASL 1010 American Sign Language I (HU) *(4L)(4CR)*

This course will provide beginning level knowledge of American Sign Language, fingerspelling, deafness, and deaf culture. Emphasis will be on developing receptive and expressive language skills within the parameters of sign language using the American Council on the Teaching of Foreign Language 5C's to include: Communication, Culture, Connections, Comparisons and Community.

ASL 1020 American Sign Language II *(4L)(4CR)*

This course will provide intermediate level instruction in American Sign Language, fingerspelling, deafness, and deaf culture. Emphasis will be on developing receptive and expressive language skills within the parameters of sign language.
Prerequisites: Successful completion "C" or better of ASL 1010.

ASL 2030 American Sign Language III *(4L)(4CR)* This course will provide advanced level instruction in American Sign Language, fingerspelling, deafness and deaf culture. Emphasis will be on developing receptive and expressive language skills within the parameters of sign language using the American Council on the Teaching of Foreign Language 5 C's to include: Communication, Culture, Connections, Comparisons and Community. This course will continue developing American Sign Language. Advanced vocabulary and ASL grammar will be taught and reinforced through classroom presentations and activities, cultural models and visual media presentation. Discussions will focus on deafness, deaf history, current trends and related topics. The direct experience method (using ASL with no voice) will be used to enhance language acquisition. **Prerequisites:** Successful completion "C" or better of ASL 1020.

ASL 2040 American Sign Language IV *(4L)(4CR)* This course will continue advanced level instruction in American Sign Language, fingerspelling, deafness and deaf culture. Emphasis will be on receptive and expressive language skills within the parameters of sign language using the American Council on the Teaching of Foreign Language 5 C's to include: Communication, Culture, Connections, Comparisons and Community. This course will continue developing American Sign Language. Advanced vocabulary and ASL grammar will be taught and reinforced through classroom presentations and activities, cultural models and visual media presentations. Discussions will focus on deafness, deaf history, current trends and related topics. The direct experience method (using ASL with no voice) will be used to enhance language acquisition. **Prerequisites:** Successful completion of "C" or better of ASL 2030 or equivalent coursework.

ASTR 1000 Descriptive Astronomy *(3L)(3CR) [E]* Designed to give a general understanding of modern astronomy. A background in historical astronomy will open the course. From there, a survey of the solar system and the objects in it will be discussed. An overview of the life and death of a star will follow. Finally, a description of the galaxy will be covered along with a study on the various theories of the origin of the universe. (Taken with ASTR 1015, equivalent to ASTR 1050)

ASTR 1010 Out of this World: NASA's Orbiters, Landers, and Space Missions *(1L)(1CR)* There is more to the NASA space program than the recently mothballed space shuttle program. We will discuss NASA's unsung mechanical heroes and examine the orbiters, satellites, and rovers that delved deep into the solar system and beyond. These machines pushed the boundaries of space and contributed to fantastic astronomical discoveries in the 20th and 21st centuries. We will explore space mission developments from the 1950s to the present time. As we progress from decade to decade, we will examine some of the significant discoveries that have transformed our view of the universe and elevated our understanding of the astrophysical world.

ASTR 1015 Astronomy Laboratory *(2LB)(1CR) [E]* An optional supplement to ASTR 1000 and designed to familiarize the student with tools and procedures of fundamental astronomical observations. **Prerequisites:** MATH 0920. (Taken with ASTR 1000, equivalent to ASTR 1050)

ASTR 1050 Survey of Astronomy (SCI) *(3L, 2LB)(4CR) [E]* A survey of astronomy and the universe. Topics will include astronomical concepts, terms and history, as well as a study of stellar evolution, galaxies, cosmology, and the solar system. The lab is an exercise into the concepts and methods used by astronomers in their study of the universe. **Prerequisites**: MATH 0900.

ASTR 1100 Planets Around Stars *(3L, 2LB)(4CR)* A survey of the planets and moons of our solar system; the physical laws governing their motions; the theory of their formation and evolution to the present time. Includes comparative studies of the interiors, surfaces, and atmospheres of the planets, and comparison of our solar system to recently discovered extrasolar planets. **Prerequisites:** A grade of "C" or better in MATH 0920. ASTR 1000 recommended.

ATSC 2000 Intro to Meteorology *(3L, 2LB)(4CR) [E]* This first course in meteorology is for students with minimal background in math and science. It provides general and practical understanding of weather phenomena, and emphasizes observational aspects of the science, meteorological view of the physical world and the impact the science has on life and society. The course will include discussion of atmospheric composition and structure, radiation, winds and horizontal forces, stability and vertical motions, general circulation, synoptic meteorology, clouds and precipitation, severe storms and atmospheric optics.

AUBR 1540 Auto Body Welding *(3L)(3CR)* A course in the application of basic welding techniques in replacement and repair of auto body panels.

AUBR 1550 Auto Body Repair I *(2L, 6LB)(5CR)* Course covers shop and tool safety; service information and measurements; mechanical repair of power train, suspension, steering, brake, cooling, heater and air conditioning, exhaust, emission control, and fuel systems.

AUBR 1560 Auto Body Repair II *(2L, 6LB)(5CR)* A continuation of AUBR 1550, covering the automotive electrical/electronic systems, and restraint system operation and service.
Prerequisites: AUBR 1550.

AUBR 1710 Frame and Chassis I *(1L, 3LB)(2.5CR)* An introduction to frame repair including impact on its effect on a vehicle, measurement of body dimensions, unibody straightening, and realigning techniques.
Prerequisites: AUBR 1550 and AUBR 1810.

AUBR 1760 Rod and Custom Restoration I *(2L, 4LB)(4CR)* Introduction to street rods and custom vehicles. Course consists of planning and designing a custom project, fabrication techniques, paint and refinishing, external body modifications, and suspension modifications. Bi-annually

AUBR 1770 Rod and Custom Restoration II *(2L, 4LB)(4CR)* A continuation course to AUBR 1760 Rod and Custom Restoration I. Areas of instruction will include electronics, welding metalworking, custom paint and graphics, and engine and drivetrain modifications. Bi-annually
Prerequisites: AUBR 1760

AUBR 1810 Collision Damage Repair I *(2L, 6LB)(5CR)* Introduction to the collision repair industry, vehicle construction technology, tool usage, materials, fasteners, working sheet metal, and the use of body fillers.

AUBR 1820 Collision Damage Repair II *(2L, 6LB)(5CR)* A continuation of AUBR 1810, covering the service and replacement of fenders, hoods, panels, bumpers, trim, doors, glass, and passenger compartment components.
Prerequisites: AUBR 1810.

AUBR 1910 Auto Paint I *(2L, 6LB)(5CR)* A course in auto painting, with emphasis on material and equipment handling.

AUBR 1920 Auto Paint II *(2L, 6LB)(5CR)* A continuation of AUBR 1910, stressing theoretical and practical aspects of final finishing procedures for complete car refinishing and spot repairs.
Prerequisites: AUBR 1910.

AUBR 1975 Independent Study - Auto Body Repair *(1-3L)(1-3CR) (Max. 6)* This course provides an option for students with sufficient background to pursue special interests in the auto body lab under contract with the instructor.
Prerequisites: Permission of the instructor.

AUBR 1980 Cooperative Work Experience *(1-8L)(1-8CR)* This course is designed to provide an opportunity for students with sufficient entry level auto body skills to work off-campus, in weld related areas, while attending classes on campus part-time.
Prerequisites: Demonstrate proficiency of auto body skills, and permission of the instructor.

AUTO 1510 Engine System Fundamentals *(2L, 8LB)(6CR)* This course will cover engine design and operation, engine sub-systems including ignition, fuel, cooling, oiling, intake and exhaust, and timing systems. Emphasis is placed on the proper usage of diagnostic tools and equipment, base engine diagnosis, engine performance, and tune-up procedures.
Prerequisites: Instructor permission required

AUTO 1690 Manual Power Train Fundamentals *(2L, 4LB)(4CR)* This course is designed to provide automotive students with the general theory, operation and component service involved in the transmission of mechanical power. The primary emphasis of the course deals with an introduction to drive shafts, drive axles, clutches, manual transmissions/transaxles and four-wheel/all-wheel drive components.
Prerequisites: Instructor permission required

AUTO 1740 Brake Systems *(2L, 4LB)(4CR)* An introduction to braking systems, this course will cover basic theory and service of hydraulic systems, power brake systems, parking brakes, and antilock systems. Diagnostics, service and repair procedures are emphasized.
Prerequisites: AUTO 1510 and AUTO 1765
Instructor permission required

AUTO 1760 Heating and Air Conditioning *(1L, 6LB)(4CR)* The course will cover heating and air conditioning theory, regulations, troubleshooting, component service, evacuation, recharging and retrofitting procedures.
Prerequisites: AUTO 1510 and AUTO 1765 and permission of instructor.

AUTO 1765 Automotive Electrical *(2L, 6LB)(5CR)* Introductory course designed to cover the theory, operation, testing and service of automotive electrical systems, battery, starting and charging systems.
Prerequisites: Instructor permission required

AUTO 1775 Introduction to Electric Vehicles *(2L,2LB)(3CR)* Basic introductory course to provide overview of Electric vehicle types and operation. Emphasis will be on safety and best practices.

AUTO 2550 Auto Alignment and Suspension *(2L, 4LB)(4CR)* This course is an introduction to automotive alignment and suspension, and will cover chassis and steering system components, service procedures, alignment theory, and four-wheel alignments.

AUTO 2565 Advanced Automotive Electrical *(2L,6LB)(5CR)* A continuation of the vehicle electrical system operation and testing, covering lighting circuits, instrumentation, accessories, body computers, electronic chassis controls and passive restraint systems.
Prerequisites: AUTO 1510, AUTO 1765, and Instructor permission required

AUTO 2610 Computerized Fuel Systems *(2L, 6LB)(5CR)* This course is intended for automotive students who have the need to increase their background on electronically controlled engine management systems. Students will begin with an overview of concepts that are applicable to understanding and diagnosing systems on all vehicles; then will move on to the study of individual systems.
Prerequisites: AUTO 1510 and AUTO 1765, Instructor permission required

AUTO 2980 Cooperative Work Experience *(4LB)(2CR)* On the job training in automotive technology.
Prerequisites: Must be an Automotive Technology major. Instructor permission required

AVTN 1980 Cooperative Work Experience *(1-8L)(1-8 CR)* Students are afforded the opportunity to gain practical on-the-job experience in their specialties. Students will be supervised by the instructor and the employer. A minimum of 80 hours of on-the-job training represents one semester credit.

AVTN 2510 Private Pilot Ground *(3L)(3CR)* Includes the study of Federal Aviation Regulations, flight dynamics, meteorology, navigation, and airport operations. Designed to fulfill the ground school requirements for the FAA Private Pilot Certificate. FAA Private Pilot Knowledge Test is a class outcome.

AVTN 2520 Private Pilot Flight *(2L,6LB))(5CR)* Requires flight instruction as listed by the Federal Aviation Administration (FAA) for a private pilot certificate (Stage I-III). Students will receive an S/U grade based on the results of the Private Pilot Practical Test flight as required by the FAA. Students must obtain a third-class (or higher) FAA medical certificate before the start of flight training.
Prerequisites: Prerequisite or concurrent enrollment in AVTN 2510 or permission of instructor.

AVTN 2600 Instrument Pilot Ground *(3L)(3CR)* Includes the study of aircraft altitude control, flight maneuvers, and flight based solely on instrument reference. Also covered are hazardous weather, interpreting weather data, FAA regulations and IFR procedures. FAA Instrument Rating Knowledge Test is a class outcome.
Prerequisites: AVTN 2520, or permission of the instructor.

AVTN 2620 Instrument Pilot Flight *(2L,6LB)(5CR)* Teaches the application of aircraft altitude control, flight maneuvers, and flight based solely on instrument reference. (Stage I-II). The course also includes advanced navigation, IFR/ATC procedures, and night flying. Requires flight and hood instruction as listed by the Federal Aviation Administration (FAA) for an instrument rating. Students will receive an S/U grade based on the results of the Instrument Rating Practical Test flight as required by the FAA. Students must obtain a third-class (or higher) FAA medical certificate prior to the start of flight training.
Prerequisites: AVTN 2520 and prerequisite or concurrent enrollment in AVTN 2600 or permission of the instructor.

AVTN 2705 Commercial Pilot Ground *(3L)(3CR)* Includes the study of aircraft altitude control and flight maneuvers applicable to the commercial pilot certificate. The FAA Commercial Pilot Knowledge Test is a class outcome.
Prerequisites: AVTN 2620, or permission of the instructor.

AVTN 2720 Commercial Pilot Flight I *(2L,6LB)(5CR)* Advanced flight instruction teaching abilities such as precision altitude flying, commercial maneuvers, radio navigation, and night flying. (Stage I-II). Requires flight instruction as listed by the Federal Aviation Administration (FAA) for a Commercial Pilot Certificate. Students will receive an S/U grade based on the results of an intermediate check flight as required by the FAA. Students must obtain a third-class (or higher) FAA medical certificate prior to the start of flight training.
Prerequisites: Completion of/or concurrent enrollment in AVTN 2705 or permission of instructor

AVTN 2730 Commercial Pilot Flight II *(2L,6LB)(5CR)* Advanced flight instruction teaching abilities such as precision altitude flying, commercial maneuvers, radio navigation, and night flying. (Stage III-IV). Requires flight instruction as listed by the Federal Aviation Administration (FAA) for a Commercial Pilot Certificate. Students will receive an S/U grade based on the results of the Commercial Pilot Practical Test as required by the FAA. Students must obtain a third-class (or higher) FAA medical certificate prior to the start of flight training.
Prerequisites: Completion of AVTN 2720 or permission of instructor.

BANK 1500 Principles of Banking *(3L)(3CR)* An introduction to the banking services. Includes history and evolution, the documents and language of banking, the deposit function, check processing and collection, bank bookkeeping, bank loans and investments, trust department services, specialized services to foreign traders and other banks, and bank regulations and examination.

BIOL 1000 Principles of Biology (SCI) *(3L, 3LB)(4CR)* A study of the cell as the unit of life, the chemistry of life, and an overview of the functioning of organs and organ systems of vertebrates. General biological principles such as genetics, homeostasis, and structure/function relationships are emphasized. This course is appropriate for biology and biology-related majors, especially those pursuing health-related degrees such as nursing, medical technology,

occupational therapy, physical therapy, etc. It also fulfills the laboratory science requirements of such majors as education, social and behavioral sciences, humanistic studies, English, etc. Biology at the high school level is desirable but not required.

BIOL 1010 General Biology I (SCI) *(3L, 3LB)(4CR) [E]* Fundamental concepts including basic chemistry, cell structures and functions, tissues, energy reactions, genetics, molecular biology, population dynamics, and evolutionary theory. Designed for life science majors and pre-professional life science curricula. It is anticipated that students have had one year of high school biology.

BIOL 2022 Animal Biology *(3L, 3LB)(4CR)* This course addresses the evolution, anatomy, physiology and ecology of animals. It is intended as a continuation of BIOL 1010, generally for students majoring in the sciences.
Prerequisites: BIOL 1000 or BIOL 1010

BIOL 2023 Plant and Fungal Biology *(3L, 3LB)(4CR)* An introduction to the principles of botany and mycology. Topics discussed include cell structure, anatomy, diversity, taxonomy, physiology, reproduction, genetics, evolution, and ecology of plants and fungi.
Prerequisites: BIOL 1000, BIOL 1010, or equivalent.

BIOL 2111 Wildlife Techniques *(3L,3LB)(4CR)* A class to prepare potential future professional wildlife biologists. We will cover wildlife techniques and methods used in both the field and the laboratory, including research and experimental design, capturing and handling wild animals (birds, mammals, and herpetofauna), techniques for marking wildlife, aging birds and mammals, radiotelemetry, and more. This course is meant to provide practical information on methodology that would better prepare students for wildlife jobs. There will be a strong emphasis on hands on learning opportunities through labs and field trips.

BIOL 2120 Biomedical and Environmental Ethics *(3L)(3CR)* This course will examine ethical issues related to medicine, biology technology and the natural environment. During the first half of the course, ethical theory is introduced, and the class will read, discuss and debate material on medical and technological issues such as defining life, abortion, euthanasia, biomedical research, genetic engineering and speciesism. The second half of the course will be devoted to issues such as animal rights, land ethics, crop engineering and the value of wilderness and biodiversity. Much class time is devoted to debate and discussion. College biology recommended.

BIOL 2325 Tropical Ecology *(6LB)(3CR)* Tropical Ecology utilizes on-site instruction to introduce students to the fundamental principles of tropical biology, the natural history of important tropical plants and animals, and their conservation. Students will be introduced to a variety of habitats, depending on the country visited. Field orientation at each site visited includes identification of plants and animals and general ecology and natural history, area management, history and cultural considerations necessary for conservation and research in the tropics. Financial assistance may be available for interested and qualified students.
Prerequisites: BIOL 1000 or BIOL 1010, and permission of the instructor. Students must complete an application form, available from the instructor.

BIOL 2400 General Ecology *(3L)(3CR) [E]* An introduction to the principles of ecology. Topics stressed include ecosystems, communities, populations, succession, aquatic and terrestrial habitats, natural selection, abiotic interactions, and speciation.
Prerequisites: BIOL 1000, BIOL 1010 or equivalent.
Cross-listed: LIFE 2400

BIOL 2410 Intro to Field Ecology *(5LB)(2CR)* A field and laboratory course to introduce research methods in general ecology. Includes required field trips.
Prerequisites: BIOL 1010, or permission of the instructor.
Cross-listed: LIFE 2410

BIOL 2465 Research Problems in Biology *(1-3L)(1-3CR) (Max. 3)* A comprehensive research study is required. Upon completing the project, the student should present a paper and oral seminar to a committee selected by the project instructor. The problem and amount of credit received

must have the approval of the instructor.
Prerequisites: Permission of the instructor.

BUSN 2000 Intro to International Business

(3L)(3CR) [E] Students develop knowledge of the diverse cultural impact on multinational trade, marketing, finance, management, and government policies. Emphasis will be on the cultural dynamics of cultural business.

BADM 1000 Intro to Business

(3L)(3CR) [E] An orientation to the field of business: types of business organizations, financing of businesses, marketing functions, and business environment. Fall

BADM 1005 Business Mathematics I (MATH)

(2L, 2LB)(3CR) Designed to review basic mathematics skills and build proficiency in the operation of electronic calculators. These skills are applied to practical business problems in bank services, payroll, taxes, risk management, markup, discount, depreciation, financial analysis, and simple and compound interest. **This course satisfies the MATH general education for an A.A.S. degree and Certification only**. Spring
Prerequisites: MATH 0920 or Algebra Domain 40-65.

BADM 1020 Business Communications (COM1)

(3L)(3CR) Helps students to compose, edit, and rapidly revise business messages on microcomputers. Group interaction is emphasized with written communications, reports, and other communications resources such as speaking and listening, and use of the Internet and e-mail. **This course only counts for the COM1 general education requirement in the AAS degree and Certificate.**

BADM 1025 Small Business Finance

(3L)(3CR) The successful management of a company's finances is fundamental to success in today's competitive business environment. This course covers key economic concepts, management functions, financial statements and financial analysis used for a business.

BADM 2010 Legal Environment of Business

(3L) [E] An introductory survey course providing a broad overview of business-related legal topics. Students will be familiarized with the nature and sources of law, court systems, alternative dispute resolution, the jurisdictions of state and federal courts, constitutional law, torts, criminal law, intellectual property, and contracts.

BADM 2030 Business Ethics

(3L)(3CR) [E] This course focuses on the importance of ethics in business considerations as well as ethical issues in the news today. This course will examine how ethics is an essential part of all business elements, from management to employee development.

BADM 2045 Nonprofit Leadership

(2CR) In this course students will learn the basic principles of nonprofit and not-for-profit management and finance. Students will examine various nonprofit organizations, assess their strengths and weaknesses, and work toward building a solid foundation of what it takes to ensure organizational success and longevity. *For entrepreneurship major/minor as an alternative to BADM 2100.*

BADM 2090 Creative Professions

(2L)(2CR) Students will explore the practical knowledge and strategies needed to succeed in a creative career. Topics covered include creative career options, best practices in business, intellectual property, and how to position yourself strategically with a professional portfolio. As a final project, students will create a plan with key actions to stand out in your creative career, boost your online presence, and attract professional opportunities. *For entrepreneurship major/minor as an alternative to BADM 2100.*

BADM 2100 Small Business Practices

(2L)(2CR) For the person interested in starting his or her own business. Emphasis will be on the development of a "business plan" and the finance, accounting, management, and marketing after the business has been established.

BADM 2195 Entrepreneurship *(3L)(3CR)* This course is designed for those students who have always wanted to start their own business, or for those that just want to explore the possibilities.

BADM 2340 Business Organizations and Government Regulations *(3L)(3CR)* A study of the principles of agency and employment law, independent contractors, wrongful termination, worker's compensation, civil rights act, administrative law, environmental law, antitrust, partnerships, limited partnerships, joint-ventures, corporations, subchapter S corporations, limited liability companies, franchises, security regulation, lender liability and consumer protection, and international law.

BOTK 1540 Business English *(3L)(3CR)* For those who need a review of basic communication skills. Students study the fundamentals of grammar, punctuation, and spelling. These skills are applied to situations that occur in business offices.

BOTK 1655 Keyboarding Speed and Accuracy *(2LB)(1CR)* This course provides students with proven techniques for improving their precision and performance. The drills are designed to increase keying speeds while maintaining a high degree of accuracy. This class offers the students the opportunity to move their keyboarding efficiency to the next level. Extra laboratory work may be required. Students need to know the keyboard. A student may take a departmental exam to challenge this course. Students successfully completing the exam will receive a grade of "S" for 1 credit.

BOTK 1660 Document Formatting *(.5L, 3LB)(2CR)* This course emphasizes development of document formatting skills using word processing software. Students will learn to properly format those documents used in the working world: letters, memos, reports, tables, and other common and/or specialized formats. Some extra laboratory work may be necessary. Minimum keyboarding skills of 30 wpm needed.

BOTK 1955 Professional Development *(3L)(3CR)* Designed to provide an awareness of the "people" skills essential for job success. Topics include developing a positive self-image, a professional self-image, business ethics, time management, human relations and communication skills, organizational dynamics, and career management.

BOTK 1980 Cooperative Work Experience I *(1-3CR) (Max 6)* The student is given the opportunity to gain practical, on-the-job experience within the student's area of business specialization. Supervision will be by program coordinator and employer. A minimum of 80 hours of on-the-job training represents one semester hour. The student must maintain a 2.0 GPA during the semester.

Prerequisites: Student must be an office management major and have permission of the instructor.

COTA 2020 Human Occupations and Life Roles *(1L, 2LB)(2CR)* The foundation of occupational therapy is purposeful activity related to development and life roles. This course provides an in-depth exploration of occupations and life roles throughout the life cycle while exploring occupational therapy theory, analysis and synthesis of occupations as performed in the various life stages. Provides discussion of influences of disability and culture to occupational performance.
Prerequisites: Permission of OTA program director.

COTA 2100 Psychosocial Aspects *(2L, 2LB)(3CR)* This course addresses acute and chronic psychosocial dysfunction conditions and occupational therapy's role in providing service. Various developmental concerns and mental health settings are discussed. The OTA's role in interventions is presented including theory, evaluation, treatment planning and intervention. Psychosocial issues in physical dysfunction are also explored.
Prerequisites: COTA 2200, COTA 2300, COTA 2310, COTA 2420, and PSYC 1000.
Concurrently: Taken concurrently with COTA 2210 and COTA 2320.

COTA 2150 Group Dynamics *(2LB)(1CR)* This course is designed to develop effective interpersonal communication to prepare students for professional/patient interactions in clinical practice and the engagement of therapeutic use of self. An emphasis is placed on the development of basic listening skills, providing meaningful feedback, and group membership skills. This course provides an environment, which promotes sharing of ideas, attitudes and feelings, peer feedback and support of group members.
Prerequisites: Admission into the OTA program, or permission of the OTA program director.

COTA 2160 Leadership Skills *(1L, 2LB)(2CR)* This course promotes effective interpersonal communication for group and professional leadership, evaluation of self and others, and therapeutic-use of-self techniques necessary for effective occupational therapy service provision. Group leadership and interactive skills are practiced along with activity analysis, adapting and grading of group activities.

Prerequisites: COTA 2150, COTA 2200, COTA 2300, COTA 2310, COTA 2420.
Concurrently: Taken concurrently with COTA 2100 and COTA 2210.

COTA 2200 Therapeutic Approaches and Media I *(4LB)(2CR)* Exploration of a variety of media and therapeutic approaches for special needs populations. Activity analysis and adaptation of activities are practiced extensively. Types of activities explored include play, education, daily living skills, social participation, work and leisure. Use of the Occupational Therapy Practice Framework is introduced and applied to practice.

COTA 2210 Therapeutic Approaches and Media II *(4LB)(2CR)* Continuation of implementation of the Occupational Therapy Practice Framework. A variety of media will be explored for implementation with psychosocial and pediatric populations. Activity analysis, adapting, and grading of interventions for therapeutic application for these populations is the focus of this class
Prerequisites: COTA 2020 , COTA 2200, COTA 2300, COTA 2310, COTA 2420
Concurrently: Taken concurrently with COTA 2100 and COTA 2350 .

COTA 2220 Therapeutic Approaches and Media III *(6LB)(3CR)* This course continues the exploration of service implementation for the occupational therapy assistant in the physical disabilities settings. Areas studied include daily living skills, work, leisure, education, and social participation. Techniques applied in physical disabilities settings are practiced.
Prerequisites: COTA 2020, COTA 2200, COTA 2210, COTA 2300, COTA 2310, COTA 2320, COTA 2350, and COTA 2420.
Concurrently: Taken concurrently with COTA 2330 and COTA 2400.

COTA 2300 Fieldwork Integration I *(1L, 2LB)(2CR)* An introduction to the role of working with special needs populations in the community. An introduction to the role and professional expectations of occupational therapy assistants (OTAs), while developing professional behaviors and beginning observation skills necessary for completing community experience. This course provides fieldwork preparation integrated with classroom discussions. Students will complete community experiences. Beginning knowledge of medical terminology is studied. Permission of the OTA instructor. Offered distance learning or hybrid
Prerequisites: OTA degree seeking student
Concurrently: OCTH 2000

COTA 2310 Fieldwork Integration II *(4LB)(2CR)* A continuation of pre-fieldwork coursework and beginning preparation for Level I fieldwork. Primary focus on professional behaviors in community experiences and with special needs populations. Begin clinical documentation for OTA practitioners.
Prerequisites: COTA 2300 and OCTH 2000
Concurrently: COTA 2200, COTA 2020, and KIN 2050

COTA 2320 Fieldwork Integration III *(4LB)(2CR)* Designed to prepare occupational therapy assistant students for Level I and Level II fieldwork , through further enhancement of professional behaviors, observation skills, and hands-on application. Level I Fieldwork experiences in traditional and/ or non-

traditional settings focusing on psychosocial/behavioral and pediatric populations. Continuation of documentation concepts.
Prerequisites: COTA 2020, COTA 2150 , COTA 2200 , COTA 2300, COTA 2310, COTA 2420, KIN 2050 , and OCTH 2000
Concurrently: Taken concurrently with COTA 2100, COTA 2160, COTA 2210, and COTA 2350.

COTA 2330 Fieldwork Integration IV *(4LB)(2CR)*

A continuation of professional behavior development and clinical readiness skills. Includes Level I fieldwork experiences in traditional, non-traditional and emerging settings while working with developmental disabilities, adult physical disabilities, and geriatric populations. Preparation for Level II fieldwork experiences. Clinical reasoning skills for transition from student to practitioner are an integral part of the course.
Prerequisites: COTA 2020, COTA 2100, COTA 2150 , COTA 2160 , COTA 2200, COTA 2210, COTA 2300, COTA 2310, COTA 2320, COTA 2350, COTA 2420, KIN 2050 , and OCTH 2000
Concurrently: Taken concurrently with COTA 2220, COTA 2400, and COTA 2450

COTA 2350 Clinical Theory and Practice I *(1L, 4LB)(3CR)*

Course examines occupational therapy theory and practice for individuals aged birth through 21 with a focus on physical disabilities and developmental dysfunction. Explores implementation of occupational therapy in a variety of settings including theory, assessment, planning treatment plan and intervention.
Prerequisites: COTA 2020, 2050, COTA 2200, COTA 2300, COTA 2310, and COTA 2420.
Concurrently: Taken concurrently with COTA 2210 and COTA 2320.

COTA 2400 - Clinical Theory and Practice II

(1L, 4LB)(3CR) Course examines occupational theory and practice for individuals over the age of 21 with a focus on physical disabilities, neurological impairment and aging dysfunction. Explores implementation of occupational therapy including theory, assessment, treatment planning and implementation, in a variety of settings.
Prerequisites: COTA 2020, COTA 2200, COTA 2210, COTA 2300, COTA 2310, COTA 2320, COTA 2350, and COTA 2420.
Concurrently: Taken concurrently with COTA 2220 and COTA 2330.

COTA 2420 Clinical Conditions *(3L)(3CR)*

Specific diagnoses commonly seen by the occupational therapists are examined and application of occupational therapy techniques and theory are discussed.
Prerequisites: Admission into the OTA Program or permission of the OTA Program Director and ZOO 2015 and KIN 2050.

COTA 2450 Health Care Systems *(3L)(3CR)* Course

provides exploration of the health care system and the delivery of occupational therapy services. Topics include: reimbursement, team concepts in health care, the role of the OTA within the OT department and health care environments, levels of authority and responsibility, and familiarity with alternative health care choices.
Prerequisites: COTA 2020, COTA 2100, COTA 2150, COTA 2160, COTA 2200, COTA 2210, COTA 2300, COTA 2310, COTA 2320, COTA 2350, and COTA 2420.

COTA 2475 - Independent Study in OT *(1-3L)(1-3CR) (Max. 6)*

This course provides occupational therapy assistant students the opportunities to complete independent research/study in areas of interest within the field of occupational therapy.
Prerequisites: Permission of the instructor.

COTA 2500 Fieldwork A

(2L, 2LB) First of two Level II fieldwork placements. Eight weeks of fieldwork in contracted facility. Includes a minimum of 40 hours a week of on-site skill practice. On-line integration of learning experiences with instructor and class members is expected.
Prerequisites: Must have completed all academic course work and Level I fieldwork.
Concurrently: COTA 2550

COTA 2550 Fieldwork B

(2L, 2LB) Second of two Level II fieldwork placements. Eight weeks of fieldwork in contracted facility. Includes a minimum of 40 hours a week of on-site skill practice. On-line integration of learning experiences with instructor and class members is expected.
Prerequisites: Must have successfully completed all academic coursework and COTA 2500.

CHEM 1000 Intro to Chemistry *(3L,2LB)(4CR) [E]*

Designed primarily for students who have not had high school chemistry or feel that they need a review, this course consists of a study of matter, atomic structure and bonding, the periodic table, chemical symbols, nomenclature and chemical equations, quantitative composition of compounds, calculations from chemical equations. Fulfills the laboratory science requirements of such majors as education, social and behavioral sciences, humanistic studies, English, etc. Not recommended for engineering, pre-medicine, pre-dentistry, pre-pharmacy, pre-veterinary medicine or any of the physical science majors. Any Semester
Prerequisites: C or better in MATH 0900

CHEM 1020 General Chemistry I *(3L,2LB)(4CR)*

*One problem class per week. The first semester of a general course designed to meet the requirements of pre-professional, engineering, science, and liberal arts majors. Covers fundamental principles, atoms, subatomic particles, periodicity of elements, stoichiometry, bonding, oxidation states, states of matter, and solutions. Includes chemistry laboratory used to introduce the student to laboratory equipment and technique and to demonstrate some of the chemical laws and concepts. Lecture and Lab Prerequisites: A 'C' or better in MATH 0930, or an ACT math score of 23 or better. (High school chemistry strongly recommended or a 'C' or better in CHEM 1000)

CHEM 1030 General Chemistry II *(3L, 2LB)(4CR)*

*One problem class per week. The second semester of a general course designed to meet the requirements of pre-professional, engineering, science, and liberal arts majors. Covers thermodynamics, kinetics and mechanism of chemical reactions, equilibrium situations, complex equilibria, electrochemistry, descriptive chemistry, and organic chemistry.
Prerequisites: A 'C' or better in both CHEM 1020 and MATH 1400, or permission of the instructor.

CHEM 2230 Quantitative Analysis *(2L, 6LB)(4CR) [E]*

The study and practice of the principles and techniques of quantitative isolation and determination of some of the elements and their compounds. The applications and limitations of the theories and operations of analytical chemistry. The solutions of problems of all types are a major part of the two weekly class periods.
Prerequisites: CHEM 1030 or permission of the instructor.

CHEM 2300 Intro to Organic Chemistry

(4L)(4CR) [E] A one-semester introduction to organic chemistry with a biological emphasis. Topics covered are bonding, structure, intermolecular attractions, common and systematic nomenclature, hydrocarbons, alcohols, phenols, mercaptans, ethers, aldehydes, ketones, carboxylic acids and their derivatives, amines, stereochemistry, carbohydrates, lipids, amino acids, proteins, nucleic acids, heterocycles, natural products, and polymers.
Prerequisites: A "C" or better in either CHEM 1000 or CHEM 1020.

CHEM 2420 Organic Chemistry I *(3L,2LB)*

One problem class per week. First of a two-semester sequence in modern organic chemistry. Topics covered are bonding, structure, alkanes, alkenes, alkynes, kinetics, stereochemistry, cycloaliphatic compounds, aromaticity, and arenes. Includes laboratory instruction in fundamental organic laboratory techniques including extraction, recrystallization, distillation and simple synthesis.
Prerequisites: A "C" or better in CHEM 1030

CHEM 2440 Organic Chemistry II *(3L, 2LB)(4CR)*

One problem class per week. A continuation of CHEM 2420. Topics covered are spectroscopy (mass spectrometry, infrared, ultraviolet, and nuclear magnetic resonance) haloalkanes, alcohols, ethers, aldehydes, ketones, carboxylic acids, and their derivatives, phenols, carbohydrates, polymers, and natural products. Includes laboratory instruction in detailed synthetic preparations and spectral and chemical analysis of the products.
Prerequisites: CHEM 2420.

CHEM 2465 Research Problems in Chemistry

(3LB)(1CR) A comprehensive research study in which the student performs under graduate chemical research under the direction of a principal investigator.
Prerequisites: Permission of instructor.

CMAP 1200 Computer Information Systems *(2L, 2LB)(3CR)*

An introduction to computers and information processing. Computer concepts covered include: the merger of computer and communication technologies, hardware, software, ethics, and security. Students develop basic software skills in: word processing, spreadsheets, databases, presentations, Web designing, and integrating software. Keyboarding skills equivalent to 20 wpm is needed to succeed.

CMAP 1500 Computer Keyboarding *(2LB)(1CR)*

This course will give students hands-on experience with the microcomputer keyboard for application in computer usage. Designed for students with no previous keyboarding instruction. Extra laboratory work may be required. Available for S/U or letter grade.

CMAP 1505 Introduction to Computers

(.5L,1LB)(1CR) This course is designed as an introductory course for students new to the computer realm. It is a general overview of pertinent aspects computer users need to know. Topics include different types of computers and the features that make them unique, computer networking, computer hardware and peripheral devices, an overview of operating systems and the tasks they provide, an introduction to computer software applications, the role of privacy and security in the digital environment, how to use the World Wide Web by navigating and searching the web, concepts related to ecommerce and consumer safety, and exposure to the social aspect of the web.

CMAP 1550 E-Portfolio Development *(.5L, 1LB)(1CR)*

This course is designed for students to create a developmental electronic learning record that will provide reflection upon their learning and evidence of achievement in their particular field of study. Professional items will be added such as a resume, cover letter, and other pertinent examples to substantiate learning of assessment purposes for prospective employment. Technical skills include file management, media creation and upload. Information relevant to the aesthetics and functionality of e-portfolios will also be provided.

CMAP 1610 Windows I

(1L, 2LB)(2CR) This course is an introduction to the Windows operating system. The fundamentals of the Windows operating system will be explored. Students will learn to use the help, my computer, and Internet features of Windows. In addition, they will learn how to manage files and organize disks, how to customize the desktop, how to share data between programs, how to perform primary system maintenance, and they will be exposed to the multimedia/Internet functions of Windows. Windows experience is recommended.

CMAP 1615 Operating Systems *(3L)(3CR)*

This course is an introductory course on the basics of computer operating systems including file systems. configuration. in ter-process communication. security. administration, interfacing. multitasking. and performance analysis. Students prepare to support OS functions by exploring the startup process. device drivers. storage configuration and OS maintenance. Specific information related to Windows. MacOS, Lin ux. UNIX, and/or mobile operating systems will be examined.

CMAP 1700 Word Processing Basics *(.5L, 1LB)(1CR)*

The following techniques will be presented: creating documents, deleting and inserting text, moving, copying, printing, formatting, using multiple documents, finding and replacing text, and running a spelling check. Extra laboratory work may be required. Keyboarding ability recommended.

CMAP 1705 Word Processing II *(.5L, 1LB)(1CR)*

The following techniques will be presented: additional editing and formatting skills, some DOS features, page numbering, boilerplates, special printing effects, math maneuvers, merge printing of form letters and envelopes, and producing mailing labels. Extra laboratory work may be required. Keyboarding ability.

CMAP 1710 Word Processing III *(.5L, 1LB)(1CR)*

The following techniques will be presented: preparing fill-in documents, conditional merge printing, automating document assembly, merging with math, creating tables of contents and indexes, adding soft fonts, working with data bases and spreadsheets, keyboarding macros and using additional advanced features. Extra laboratory work may be required.

Prerequisites: CMAP 1705.

CMAP 1715 Word Processing Applications

(1L, 4LB)(3CR) Will cover basic through advanced functions of word processing software. Training will be provided on microcomputers in the origination, processing, editing, and output of the document cycle. Various formats, applications, and exercises will be utilized to produce a variety of professional documents. Extra laboratory work may be required.
Prerequisites: A keyboarding speed of 30 wpm is needed to succeed. Completion of CMAP 1700, CMAP 1705, and CMAP 1710 (for a total of 3 credits) is equivalent to CMAP 1715.

CMAP 1750 Excel Basics

(.5L, 1LB)(1CR) Designed to integrate information processing and spreadsheet problems and to create applications for the modern business environment. Extra laboratory work may be required.

CMAP 1755 Spreadsheet Applications II

(.5L, 1LB)(1CR) This course is designed to integrate information processing and intermediate level spreadsheet problems and to create applications for the modern business environment.
Prerequisites: CMAP 1750 or permission of the flex lab instructor.

CMAP 1760 Spreadsheet Applications III

(.5L, 1LB)(1CR) This course is designed to integrate information processing and advanced level spreadsheet problems and to create applications for the modern business environment.
Prerequisites: CMAP 1755 or permission of the flex lab instructor.

CMAP 1765 Spreadsheet Applications

(2L, 2LB)(3CR) This course covers the features of Microsoft Excel. Topics include creating worksheets, charts, formulas; developing functions, formatting, Web queries, What-If analysis; creating static and dynamic Web pages, data tables, financial schedules; creating, sorting, and querying a list; creating templates; working with multiple worksheets and workbooks, object linking and embedding (OLE), using macros, importing data, and working with Pivot Charts. Completion of CMAP 1750, CMAP 1755 and CMAP 1760 (for a total of 3 credits) is equivalent to CMAP 1765.

CMAP 1800 Database Basics

(.5L, 1LB)(1CR) The following operations will be presented: designing, creating, editing, sorting, indexing, and searching database files. Database files will be used with Wizards to create queries, tables, forms, and reports. Keyboarding skill equivalent of 20 wpm is needed to succeed.

CMAP 1805 Database Applications II

(.5L, 1LB)(1CR) This course is designed to integrate information processing and intermediate level database problems and to create applications for the modern business environment.
Prerequisites: CMAP 1800 or permission of the flex lab instructor.

CMAP 1810 Database Applications III

(.5L, 1LB)(1CR) This course is designed to integrate information processing and advanced level database problems and to create applications for the modern business environment.
Prerequisites: CMAP 1805 or permission of the flex lab instructor.

CMAP 1815 Database Applications

(2L, 2LB)(3CR) The following operations will be presented: designing, creating, editing, sorting, indexing, and searching database files. Database files will be used with Wizards to create queries, tables, forms, and reports. Students will apply operations and learn to use multiple databases, create advanced queries and custom forms and reports, integrate documents with other programs, and use the World Wide Web and hyperlink fields. Keyboarding skills equivalent to 20 wpm are needed to succeed. Completion of CMAP 1800, CMAP 1805 and CMAP 1810 (for a total of 3 credits) is equivalent to CMAP 1815.

CMAP 1850 Document Publishing I

(.5L, 1LB)(1CR) This is an introductory course to desktop publishing using current desktop publishing software. Students will learn desktop publishing concepts necessary to create flyers, brochures, and newsletter. They will also learn to create custom publications from scratch. Individual skills will be developed related to text editing, graphic design and editing, the use of placeholders, editing templates; and the creation of color schemes, font schemes, and customized

building blocks. Extra laboratory work may be required. Keyboarding and work processing skills are strongly recommended for successful completion of this course.

CMAP 1851 Document Publishing II *(.5L, 1LB)(1CR)*

This class builds upon the skills learned in Document Publishing I. Students will learn how to build business information sets, create letterhead templates, business cards, work with tables for the creation of calendars, merge publications with data files, and create data driven catalogs. New skills will include the creation of new styles, working with master pages, Word Art, editing and embedding tables, and managing merged publications. Extra laboratory work may be required.

Prerequisites: CMAP 1850

CMAP 1852 - Document Publishing III *(.5L, 1LB)(1CR)*

This class builds upon the skills learned in Document Publishing I and II. Students will learn the more advanced concepts such as editing large scale publications, sharing and distributing publications, and creating an interactive web site including the creation of web forms. Individual student skills will include the ability to create a table of content, bookmarks, hyperlinks, and generation of html and Visual Basic code. Extra laboratory work may be required.

Prerequisites: CMAP 1850 and CMAP 1851

CMAP 2630 Presentation Graphics *(1L, 2LB)(2CR)*

This course is designed to provide a working knowledge of presentation software. Procedures include authoring multimedia projects to include animation, sound files, object linking and embedding technology. Topics include using/creating/customizing design templates and themes, adding effects to shapes and objects, modifying visual elements, animation with motion paths, and the design/delivery of presentations. Extra laboratory work may be required. Completion of CMAP 2635 and CMAP 2636 (for a total of 2 credits) is equivalent to CMAP 2630.

CMAP 2635 Presentation Graphics I *(.5L, 1LB)(1CR)*

This course is designed to develop techniques necessary to design appropriate presentations focusing on purpose and intended audience. Students will create presentations using a template, customize themes, insert objects, create SmartArt objects, and add special effects to a presentation. Extra laboratory work may be required. Completion of CMAP 2635 and CMAP 2636 (for a total of 2 credits) is equivalent to CMAP 2630.

Prerequisites: Completion of or concurrent enrollment in CMAP 1615 and CMAP 1715 are recommended.

CMAP 2636 Presentation Graphics II *(.5L, 1LB)(1CR)*

This course is designed to incorporate the advanced features of PowerPoint. Students will integrate presentations with other programs, customize handouts, publish a presentation as a Web page, add action buttons, add hyperlinks, incorporate advanced special effects and create special types of presentations. Extra laboratory work may be required. Completion of CMAP 2635 and CMAP 2636 (for a total of 2 credits) is equivalent to CMAP 2630.

Prerequisites: CMAP 2635 or permission of the instructor.

CNTK 1525 Materials Handling and Construction Equipment

(3L)(3CR) The new art and science of moving and storing all types of materials and products of the construction industry including machines, equipment, and systems. Fall

CNTK 1530 Architectural and Construction Planning

(3L)(3CR) A survey of architectural construction administration including planning and scheduling as practiced in the building industry. Codes, specifications, and contractual documents as they apply to building projects. Fall

CNTK 1560 Construction Safety

(3L)(3CR) Understanding safety and planning preventative measures is crucial to the modern construction firm. You will receive in-depth information concerning specific areas of safety management. This program emphasizes the importance of managing safety and productivity with equal emphasis.

CNTK 1585 Heavy Equipment Operator I *(2L,6LB)(5CR)* This course is designed to provide students with training in heavy equipment operation, focusing on the operation of skid-steer loaders, backhoes, dump trucks, and mini excavators. As well as safety on the job site. Emphasis will be placed on both theoretical knowledge and practical skills necessary for safe and efficient operation of these heavy equipment machines. Students will gain an understanding of equipment maintenance, safety procedures, and real-world application of heavy equipment in construction and various industrial settings.

CNTK 1630 Basic Cabinet Making *(1L, 2LB)(2CR)* For anyone wishing to learn basic cabinet making skills. Cabinet design, construction techniques, finishing procedures, and machine operation are included in classroom and laboratory instruction. Students construct an appropriate cabinetry unit of their choice.

CNTK 1700 Intro to Construction *(2L, 4LB)(4CR)* Basic concepts of residential and light commercial construction. This will include hands-on training in the safe operation and use of both hand and power tools, concrete testing and grading, and careers in the construction industry.

CNTK 1860 Woodworking Fundamentals I *(2L, 4LB)(4CR)* A course for those wanting to learn or further their woodworking skills. An emphasis will be placed on safety, problem solving, material selection, and practical approaches to woodworking. In the lab, students will receive an introduction to the safe and correct use of both hand and stationary power tools and equipment to build a project of the student's choice.

CNTK 1865 Woodworking Fundamentals II *(2L, 4LB)(4CR)* This course provides an enhanced knowledge of techniques and materials used in the design and construction of wood furnishings. Emphasis on problem solving, multi-joining technology and custom finishing.
Prerequisites: CNTK 1860.

CNTK 1870 Construction Materials and Methods *(3L)(3CR)* Building materials and structural systems as they relate to the construction industry. Methods of construction, environmental impact and code requirements. Fall

CNTK 1905 Carpentry *(2L, 4LB)(4CR)* This course is designed to build upon previously learned skills in carpentry, roofing, concrete, and work site safety, through hands-on construction techniques in a lab setting. Typically, the material covered will relate to residential construction, but commercial and industrial applications will be covered.
Prerequisites: CNTK 1700.

CNTK 2510 Construction Estimating *(3L)(3CR)* A study of the core functions of estimating and job preplanning. Plans and specifications are used for quantity survey. Economic factors of time, cost, production control, overhead, and profit are considered. Spring

CNTK 2530 Construction Staking & GPS *(2L,2LB)(3CR)* Construction staking includes the use of Global Positioning System (GPS), Global Navigation Satellite System (GNSS), and a robotic total station to find important points such as the center line of a road or utility, the edge of a curb and gutter, or the corner of a building as well as setting grades for all elements. This is the process of mapping and staking for improvements to a site.

CNTK 2980 Cooperative Work Experience (Construction) *(1-4CR) (Max. 8)* Practical construction experience on the job, with required written reports on the field experience. See "Unit of Credit."

CNSL 2200 Intro to Student Leadership I *(2L)(2CR)* This course will acquaint students with the leadership skills and competencies necessary for successful service in the college community and beyond. While required of students elected to the ASCC Student Senate, enrollment is open to all students.
Prerequisites: Election to ASCC Student Senate, or permission of the instructor.

COMM 1000 Intro to Mass Media (SSC) *(3L)(3CR) [E]* Explores the nature and function of the mass

media in contemporary society. Begins by examining some major theoretical conceptions of the communication process, concentrating on how communication creates and sustains culture. Other topics include the effects of the media on media consumers, special characteristics of the various media, and public policy issues in regard to mass media.

COMM 1020 Workplace Communication *(3L)(3CR)* Designed to introduce students to best communication practices for the 21st century workplace. This course is presentation-centered, but also introduces pertinent communication theory. Yearly in the fall semester

COMM 1030 Interpersonal Communication *(3L)(3CR) [E]* Focuses on face-to face relationships in interpersonal communication settings. Self-concept, perception, language, nonverbal channels, listening, and emotions are presented as factors in dyadic relationships.

COMM 1040 Intro to Communication Theory *(3L)(3CR)* An introduction to the nature and function of human symbolic communication in its various settings. The role of symbolic communication on the interpersonal level as a method of establishing and defining human relationships will be examined, as will the relationship of symbolic communication to the establishment and maintenance of larger behavioral, economic, and cultural processes and structures.

COMM 1060 Forensics I *(2LB)(1CR)* For those students interested in competing in events sponsored by the National Community College Speech Association.

COMM 1080 Talking With: (Subtitle) *(1L)(1CR)(Max. 3)* This course will focus on unique or specific communication situations, for which there are often special strategies or rules for effective communication.

COMM 1505 - Communication for Professional Success *(1-3L)(1-3CR)* A practical approach to improving communication in the workplace. This course presents principles and practices for business and professional employees in three areas: personal skills (Interpersonal Communication), group skills (Small Group Communication), and presentation skills (Public Speaking and Interviewing). The course may be taken for three credits as a whole, or individually for one credit each.

COMM 2010 Public Speaking (COM2) *(3L)(3CR)* An introductory course in public speaking. The emphasis is on theory, speech development, and practice as the student is introduced to a variety of speaking situations from impromptu talks to platform speeches. This course will fulfill the C2 requirement for the University of Wyoming.

COMM 2060 Forensics II *(2LB)(2CR)(Max. 2)* For those interested in competing in those events sponsored by Phi Rho Pi, the national community college speech association. Students will attend and participate in intercollegiate forensics as members of the forensics squad of Casper College.
Prerequisites: Permission of the instructor.

COMM 2090 Intro to Persuasion *(3L)(3CR) [E]* Human communication as a change agent is studied along with relationships of attitudes to behavior with emphasis on behavioral research and contemporary theories.
Prerequisites: COMM 2010 or permission of instructor.

COMM 2100 Media Writing *(3L)(3CR)* This course focuses on an introduction to basic news writing, reporting, editing, interviewing, PR and advertising. Strong writing, deadlines, accuracy, news judgment, ethical practices and sensitivity of our pluralistic society are expected. This course provides skills necessary for various media careers including media writing, PR, marketing and magazine writing.
Prerequisites: ENGL 1010 or permission of instructor.

COMM 2110 Nonverbal Communication *(3L)(3CR) [E]* This course focuses on the elements, functions, and impacts of nonverbal communication in human communication. Students are introduced to the research and theory, as well as the practical applications, in their interactions with others.
Prerequisites: ENGL 1010 or permission of instructor.

COMM 2120 Small Group Communication *(3L)(3CR) [E]* Communication behavior in small group situations is explored; networks, dynamics, leadership roles, member functions, and decision-making behavior.
Prerequisites: COMM 2010 or COMM 1030 or permission of instructor.

COMM 2125 Family Communication *(3L)(3CR)* Designed to explore the role that communication plays in family functioning.
Prerequisites: COMM 1030 or permission of instructor.

COMM 2135 Gender, Communication and Culture *(3L)(3CR)* This course provides both a theoretical and real-life view, for both genders, on how our communication in work, school, social and relationship settings help shape and design our gender constructs.

COMM 2145 Mentoring Communication *(1-2L)(1-2CR)* This course will focus on unique or specific communication situations associated with serving as a mentor for elementary students between the ages of 8 - 11 and the application of special strategies or rules for effective communication in those situations. This course is associated with the Help Yourself Academy, an after-school program designed to offer Title 1 NCSD elementary students (grades 3 - 6) the opportunity to focus on a math and science curriculum.
Prerequisites: Permission of the instructor.

COMM 2150 Argumentation *(3L)(3CR) [E]* Students will be introduced to the elements of effective argument - including evidence, reasoning, case construction and presentation skills to bring about changes in belief and conviction. Warning: This course focuses on current controversial issues and students may be asked to present arguments that differ from their own personal positions on those issues. The intent of the course is not to change students' minds, but they will critically evaluate their own political and philosophical beliefs and opinions.
Prerequisites: COMM 2010 or permission of instructor.

COMM 2190 Basic Video Production *(2L, 2LB)(3CR)* Basic camera operation, sound, lighting, scriptwriting, planning, and editing introduce the fundamentals of video production. Students will work in a variety of crew positions to create private or institutional video projects.

COMM 2200 Survey of Media Production *(2L, 2LB)(3CR)* This course will introduce students to the technical and creative aspects of media production through hands-on, experiential learning that is student-centered and professionally relevant. The course provides students with the skills necessary to tell stories and produce impactful media content. Students will learn basic production techniques for social media, photography, design, audio, and video. Fall
Prerequisites: COMM 2100

COMM 2310 Public Relations *(3L)(3CR)* Studies how organizations can improve their relationships with their publics. Explores public opinion and how to research audiences. Explains different skills needed in the field, including its relationship to advertising and marketing.
Prerequisites: COMM 2100 or permission of the instructor

COMM 2320 Intro to Social Media *(3L)(3CR)* This course will introduce methods for analyzing and understanding how people apply social media technologies and their societal implications. The course will offer real world examples and practical experience to help students understand how to create personal and professional online identities while creating and managing content through various forms of social media.

COMM 2380 Cinema History *(3L)(3CR) [E]* A study of the development of film from 1895 to the present in relation to historical forces shaping the film industry in the form of artistic movements, world history, popular taste, technology, economics, and politics. Weekly screening of historically significant films supplement readings, lectures, and discussions.
Prerequisites: ENGL 1010 or permission of instructor.

COMM 2390 Independent Publications

(2LB)(1CR)(Max. 3CR) Students interested in producing the student newspaper (The Chinook) will have the opportunity to complete interviews and write, work in sales and advertising, use social media and web promotion, shoot photography, develop editorial and column writing.
Prerequisite: Permission of the instructor.

COMM 2400 Intro to Photography *(3L)(3CR)*

Basic course in still photography. Includes practice in techniques of camera use, composition and use of photographs in media-related applications.

COMM 2470 - Communication Internship *(1-3CR) (Max. 6)*

This course is designed for students wishing to gain work experience using communication skills. The student will complete 80 hours of work for 1 credit hour. The student will be evaluated by his/her supervisor at work as well as several visits by the instructor. This course may be repeated to a maximum of 6 credit hours. **Prerequisite:** Permission of the instructor.

COMM 2475 Independent Study

(1-3L)(1-3CR) (Max. 6) An opportunity for students to develop projects in their particular area of interest within the communication discipline.
Prerequisites: COMM 1040, consent of instructor, and completion of at least six hours of 2000 level COMM credits.

COMM 2480 Cooperative Work Experience *(1-3CR) (Max. 6)*

Designed for students working in the communication field who actively apply skills and content from prior coursework. Work consists of paid on-the-job training. The student will be evaluated by his/her supervisor at work as well as several visits by the instructor. This course may be repeated to a maximum of 6 credit hours.
Prerequisite: Permission of the instructor.

COSC 1010 Computational Thinking and Programming *(3L, 2LB) [E]*

An introduction to computer programming that emphasizes good software design principles and fundamental programming skills. It aims to provide students with an understanding of the role computation can play in solving problems.
Prerequisites: Typing skills.

COSC 1030 Computer Programming *(3L, 2LB) [E]*

The course emphasizes basic software design, expands the students' knowledge of programming language syntax, expands the students' ability to think and design in an object-oriented paradigm. Introduces the students to UML, pseudocode, and simple planning for the design of software. Also introduces the students to templates and the C STL.
Prerequisites: Previous programming experience required and COSC 1010 or instructor permission.

COSC 2030 Data Structures *(3L, 2LB) [E]*

Builds on the introduction to object-oriented programming begun in COSC 1010 and COSC 1030 with an emphasis on algorithms, data structures, and software engineering. Fall
Prerequisites: COSC 1030.

COSC 2150 Computer Organization *(3L)(3CR) [E]*

Foundations class for advanced coursework in computer science. Use of assembly and high-level languages to study the structure and operations of computers. Topics include the logical organization of computers, structured data and instruction representation in various types of languages, and extensive study of the assembly language of a modern microprocessor. Most programming is done at the assembly language level. Spring
Prerequisites: COSC 2030 (or concurrent enrollment) or permission of instructor.

COSC 2300 Discrete Structures *(3L) [E]*

Introduces the mathematical concepts that serve as foundations of computer science: logic, set theory, relations and functions, counting methods, introductory graph theory, and proof methods including mathematical induction. Provides an introduction to abstract and rigorous thinking in advanced mathematics and computer science. Spring
Prerequisites: COSC 1030 or MATH 2200. (Dual listing MATH 2300.)

COSC 2409 Programming: *(2-4L)(2-4CR)* Describes various computer languages focusing on their differences from prerequisite languages and the uses of these new features. This course will give the student the chance to study new and unusual languages and their uses.
Prerequisites: COSC 1030 or instructor permission.

COSC 2418 Mobile App Development *(3L)(3CR)* This course focuses on the creation of mobile solutions for various modern platforms, including major mobile operating systems. Topics include mobile device architecture, programming languages, software engineering, user interface design, and app distribution. Fall
Prerequisites: COSC 1030, Computer Science I

COSC 2480 Cooperative Experience (Computer Systems and Applications) *(1-3L)(1-3CR) (Max. 6)* The student is afforded the opportunity to gain practical, on-the job experience within the student's area of business specialization. Supervision of program coordinator and employer, if required. A minimum of 80 hours of on-the job training represents one semester hour. The student must maintain 12 credit hours with a 2.0 GPA during the semester this course is taken.
Prerequisites: Computer systems and applications or computer science major and permission of the program coordinator.

CRMJ 1001 Intro to Criminal Justice (SSC) *(3L)(3CR) [E]* The agencies and processes involved in the criminal justice system legislature, the police, the prosecutor, the public defender, the courts, and corrections. An analysis of the roles and problems of law enforcement in a democratic society with an emphasis upon inter-component relations and checks and balances.

CRMJ 1705 Advanced Firearms *(1L, 4LB)(3CR)* This course will address range safety procedures and legal issues concerning the use of deadly force by law enforcement officers. In addition, the course will introduce students to basic defensive handgun techniques. Students will also be introduced to the proper handling, firing and maintenance of police pump action shotguns, semi-automatic patrol rifles and precision rifles. Students must furnish ammunition, ear and eye protection and pay an access fee for use of the shooting range. This is considered to be a vocational skills course and as such it may not transfer to the University of Wyoming or other four-year institutions that offer a bachelor degree in criminal justice. Enrollment is open to all interested students provided they can lawfully possess firearms.

CRMJ 2005 Introduction to Automated Fingerprint Identification Systems *(.5L, 1LB)(1CR)* Exploration of areas of contention, which occur within the criminal justice system in America today. To include such topics as bail, plea-bargaining, Supreme Court decisions of a controversial nature, police discretion, and others.
Prerequisites: Permission of the instructor.

CRMJ 2130 Criminal Investigation I *(3L)(3CR)* Theory of criminal investigation: relations of the detective with other law enforcement divisions, modus operandi, sources of information, surveillance, personal identification, interrogation, preliminary and follow-up investigations, collection and preservation of evidence. Enrollment limited to majors in law enforcement except by permission of the instructor.

CRMJ 2210 Criminal Law I *(3L) [E]* Comparative study of criminal laws; origins of laws; review of Wyoming criminal laws and procedures; elements of a crime; parties to a crime; elements of specific crimes; arrest, jurisdiction of criminal courts and criminal procedures. (Spring semester.)

CRMJ 2230 Law of Evidence *(3L)* Leading rules and principles of exclusion and selection, the burden of proof, nature, and effect of presumptions, proof of authenticity, and contents of writings; examination, competency, and privilege of witnesses. FA and Online Spring

CRMJ 2250 Police Administration *(3L)(3CR)* Principles of organization and management as applied to law enforcement agencies. Theoretical and practical aspects of management factors such as organizations, decision-making, values, human relations, and

power.
Prerequisites: CRMJ 1001, or permission of the instructor.

CRMJ 2280 Criminal Procedure

(3L)(3CR) This course will familiarize the student with the State of Wyoming and the federal criminal process. The fourth, fifth, sixth, and fourteenth amendments to the United States Constitution will be emphasized, along with applicable Supreme Court cases. The laws of arrest, search, seizure, pretrial identification procedures, and confessions will be studied. An overview of the criminal court system as it relates to individual rights protected under the Constitution and key Supreme Court holdings will be taught. Meets in the Fall only. Fall

CRMJ 2350 Introduction to Corrections

(3L)(3CR) A general overview of the correctional process describing the history and evolution of the American corrections system. This course covers all aspects of institutional and community-based corrections. Spring

CRMJ 2430 The Community and the Police

(3L)(3CR) The course delves into the areas of police professionalism and the concept of community relations. Areas discussed will include use of power, prejudice, race relations, civil rights, police political relations and police media relations.
Prerequisites: CRMJ 1001, or permission of the instructor.

CRMJ 2570 Criminalistics

(2L, 2LB)(3CR) This course will delve into the aspects of crime scene management. From the first initial contact with the crime scene, the student will learn to gather physical evidence, document, photograph, and diagram the scene to scale. They will identify fibers, hairs, paints, tool markings, fingerprints and other impressions. We will also look into what the future holds in the area of crime scene management.

CRMJ 2895 Capstone Directed Studies in Criminal Justice

(2LB)(1CR) This capstone course is the conclusion of the student's criminal justice academic experience and is the final course completed by students in the Criminal Justice Associate of Arts (A.A.) degree or the Criminal Justice Associate of Applied Science (A.A.S.) degree. The course is designed to assess the student's understanding of the Criminal Justice System and his/her readiness to become employed by a criminal justice agency.
Prerequisites: All major requirements or concurrent enrollment in any remaining major requirement courses and permission of the instructor.

CRMJ 2965 Directed Studies in Criminal Justice

(2-6LB)(1-3CR) (Max. 6) Faculty-guided research in an area of mutual interest to the student and instructor within the law enforcement or corrections major.

CRMJ 2970 Criminal Justice Internship

*(*1-3CR) (Max. 3)* *Thirty hours of participation per credit hour. This course will place a student in a criminal justice agency for a few hours per week for one semester as an observer. It will afford the pre-service student the opportunity to observe the workings of the criminal justice system, and the in-service student an opportunity to work in a collateral criminal justice agency.
Prerequisites: Sophomore standing and permission of the instructor.

CRMJ 2980 Cooperative Work Experience

(Law Enforcement) *(*2- 3CR)* *(see "unit of study") Supervised work and project experience for the purpose of increasing student understanding of law enforcement problems and procedures. Supervision is provided by both the instructional staff of the college and the cooperating agencies. Analysis and reports of student's performance; regular group meetings. Enrollment limited to majors in law enforcement with sophomore standing except by permission of the instructor.

CSCO 2000 CCNA I Intro to Networks

(3L)(3CR) Students build simple LAN's, perform basic configurations for routers and switches, and implement IP addressing schemes. Students develop skills necessary to plan and design the architecture, structure, functions, component, and models of the Internet and computer networks. Students implement the principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to

provide a foundation for the curriculum. This is the first of three courses needed to prepare for the Cisco Certified Network Associate (CCNA) certification.

CSCO 2020 CCNA II Switching, Routing, And Wireless Essentials *(2L, 2LB)(3CR)*

This course prepares students to plan and design the architecture, components, and operations of routers and switches in a small network. Students configure routers and switches for basic functionality. Students configure and troubleshoot routers and switches and resolve common issues with RIPvl, RIPv2, single-area and multi-area OSPF, virtual LANs and inter-VLAN routing in both IPv4 and IPv6 networks. This is the second of three courses needed to prepare for the Cisco Certified Network Associate (CCNA)

Prerequisites: CSCO 2000 or permission of the instructor

CSCO 2025 CCNA III Enterprise Networking, Security, and Automation *(4L) (4CR)*

Students plan and design the architecture components, and operations of routers and switches in a large and complex network. Students configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students implement DHCP and DNS operations in a network. This is the third and last of three courses needed to prepare for the Cisco Certified Network Associate exam.

Prerequisites: CSCO 2020 or permission of the instructor

CSCO 2035 CCNA Certification Exam Review *(1L)(1CR)*

This course will be a thorough review of the Cisco CCNA Certification Exam requirements. Using lectures, flash cards and electronic testing, students will be presented with a complete outline of exam requirements and will be able to accurately gauge their level of preparedness to take the exam.

Prerequisites: (should be preparing to sit for the CCNA Exam)

CSEC 1501 Network Security Fundamentals *(2L, 2LB)(3CR)*

This course examines current standards for information security through examination of security technologies, methodologies and best practices. Topics include evaluations of security models, risk assessment, threat analysis, attack types, encryption technologies, organizational technology, security implementation, disaster recovery planning, and security policy formulation and implementation. (Fall semester)

CSEC 1510 Network Defense Principles *(2L, 2LB)(3CR)*

This course introduces students to the various methodologies used for attacking a network. Students are introduced to the concepts, principles and techniques, supplemented by hands-on exercises for attacking and disabling a network. These methodologies are presented within the context of properly securing the network. Students are provided with updated security resources that describe new vulnerabilities and innovative ways to protect networks by using the skills and tools of an ethical hacker. (Spring semester)

Prerequisites: CSEC 1501.

CSEC 1520 Network Attack Principles *(2L, 2LB)(3CR)*

This course will provide students with information about ongoing threats in cyber space. Students will be able to identify cyberspace threats to compare/contrast their resources, capabilities, motivations and aversion to risk. Students will learn valuable skills related to preventing attacks, detecting when attacks have occurred, and recovery from an attack. This course provides comprehensive review of hacking concepts and industry best practices. (Spring semester)

Prerequisites: CSCO 2000

CSEC 1530 Computer Forensics *(2L, 2LB)(3CR)*

The universal use of technology in every aspect of our lives has provided the need for the recovery of evidence in a digital format. In today's technology driven world most crimes and civil disputes involve the use of some form of a digital device. This course is designed to teach students how to perform computer crime investigations by identifying, collecting and maintaining digital artifacts to preserve their reliability for admission as evidence.

CSEC 1980 Cooperative Work Experience – Internship *(1-3CR) (3CR Max)*

Students will have the opportunity to gain on-the-job experience to improve and develop new skills in the area of

cyber security. Students will be supervised by the program coordinator and the hosting employer. A minimum of 80 hours of on-the-job training represents one semester hour of work. Students must maintain a 2.0 GPA during the semester for which they are enrolled in this course.
Prerequisites: Student must be a Computer Security major and have permission of the program coordinator.

CULA 2050 Culinary Food Production I *(1L, 6LB)(4CR)*
This course will teach students basic culinary skills which will include: basic kitchen safety and sanitation, knife skills, stocks and soups, mother sauces, small sauces and modern sauces, basic meat fabrication, basic dressings: vinaigrettes and marinades, grains and pastas, and breakfast cookery.

EDCI 1430 Life Science in the Elementary School
(2LB)(1CR) [E] Covers selection of basic life science concepts, materials and curricula appropriate for elementary school.
Concurrently: LIFE 1020, or permission of the instructor.

EDCI 1440 Physical Science in the Elementary School
(2LB)(1CR) [E] Covers selection of basic physical science concepts, materials and curricula appropriate for elementary school. This course parallels the content of PHYS 1090 and should be taken the same semester.

EDCI 1450 Earth Science in the Elementary School
(2LB)(1CR) [E] Covers selection of basic earth science concepts, materials, and curricula appropriate for elementary school. This course parallels the contents of GEOL 1070.

EDCI 2250 Diversity in Education *(3L)(3CR)*
This course is designed to introduce students to the conceptualization, design and implementation of a multicultural education that respects and honors diversity as well as promotes national unity.

EDCI 2495 Workshop (Subtitle) *(1-2L)(1-2CR)*
Special topics in education offered in response to specific needs or public interest.

DANC 1015 Introduction to Dance (HU) *(3L)(3CR)*
This course will take a look at the formation of genres within dance history. It will be an overview of the beginnings of modern dance, ballet, jazz dance, and tap dance. Spring

DANC 1300 Dance Improvisation I
(1L,2LB)(2CR) This course will investigate improvisation in dance at the beginning level. It will incorporate improvisational exercises that will lead to short phrase work.

DANC 1405 Movement Fundamentals and Conditioning *(1L)(2CR)*
This course develops strength, flexibility, alignment, and body awareness to enhance dance performance and prevent injury. Through guided conditioning exercises and movement analysis, students apply basic principles of kinesiology to improve efficiency, coordination, and balance. Emphasis is placed on developing sustainable movement habits, understanding anatomical alignment, and cultivating a deeper connection between physical conditioning and expressive movement.

DANC 1410 Beginning Ballet I (FA) *(1L,2LB)(2CR)*
This course will emphasize the fundamentals of ballet. Students will focus on technique, terminology, and the execution of the basic steps.

DANC 1420 Beginning Ballet II *(1L,2LB)(2CR)*
A continuing course in the principles and techniques of classical ballet. Emphasis is placed on the continuation of broadening the dancer's movement vocabulary while refining acquired technical skills. This course can be repeated once.
Prerequisites: DANC 1410 in good standing, or permission of the instructor.

DANC 1425 Ballet Studies *(3LB)(1CR)*
This course will emphasize various areas of ballet techniques. There will be in-depth focus on specific skills found in the genre of ballet. Previous ballet experience required.

DANC 1450 Beginning Tap Dance I (FA)
(1L,2LB)(2CR) This course will emphasize the fundamentals of tap dance. Will focus on technique, terminology, and the execution of the basic steps.

DANC 1460 Beginning Modern Dance I (FA)

(1L,2LB)(2CR) This course is an introduction to the principles and techniques of modern dance. Dancers will focus on technique, terminology and the execution of the basic steps, as well as the discovery of movement in space and time. This class will serve the student as a study in exploration of the basic ideas of modern dance.

DANC 1470 Beginning Modern Dance II

(1L,2LB)(2CR) This course will be a continuation of study in the principles and techniques of modern dance. Dancers will focus on linking techniques with terminology and executing combinations made up of the basic-intermediate steps, as well as the continued discovery of movement in space and time. Spring
Prerequisites: DANC 1460/PEAC 1460, or permission of the instructor.

DANC 1480 Beginning Jazz Dance I (FA)

(1L,2LB)(2CR) This course will emphasize the fundamentals of jazz dance. It will focus on technique, terminology, and the execution of the basic jazz steps.

DANC 1500 Dance Performance *(2-4LB)(1-2 CR) (Max. 5) [E]* Individually supervised practical training in performance and production during the rehearsal and performance of the fall and spring productions of the dance concert. Open entry. Prerequisites: permission of the instructor.

DANC 2212 Beginning Composition *(1L, 2LB)(2CR)* This course is a beginning level composition course that will give the student various exercises in which to better understand choreography and its principles. The student will explore ways in which to make a dance with a completed beginning, middle, and end.
Prerequisites: DANC 1320 Improvisation II

DANC 2410 Intermediate Ballet I *(1L,2LB)(2CR)* This is a continuing course in the principles of classical ballet. Emphasis is placed on continuing to broaden the dancer's movement vocabulary while refining acquired technical skills. More advanced barre and center skills, including multiple turns, beats, and longer combinations, will be integrated.
Prerequisites: Successful completion of DANC 1420, or permission of the instructor

DANC 2420 Intermediate Ballet II *(1L,2LB)(2CR)* This is a continuing course in the principles and techniques of classical ballet. Emphasis is placed on refining the dancer's movement vocabulary while increasing the level of difficulty of acquired technical skills. Building artistry in performance as both a soloist and an ensemble member will be practiced. Ballet conditioning will be further integrated.
Prerequisites: Successful completion of DANC 2410, or permission of the instructor.

DANC 2460 Intermediate Modern Dance I

(1L,2LB)(2CR) This course advances technical skill and expressive range through modern and contemporary principles at an intermediate level. Objectives will include emphasizing alignment, strength, musicality, momentum, and breath-driven phrasing. Content will Include center work, traveling sequences, phrase work, and improvisation to expand movement vocabulary and performance presence.
Prerequisites: DANC 1470, or permission of the instructor.

DANC 2470 Intermediate Modern Dance II

(1L,2LB)(2CR) A third level course covering the principles and techniques of modern dance. This course will continue to look at post-modern techniques/styles and be a link from the historical modern dance to the contemporary explorations and modern dance trends.
Prerequisites: DANC 2460, or permission of the instructor.

DANC 2480 Intermediate Jazz Dance II

(1L,2LB)(2CR) A second level course furthering the student's knowledge of jazz dance and its origins. Dancers will focus on techniques, terminology, and the execution of jazz steps from the intermediate to the advanced level.
Prerequisites: DANC 1480, or permission of the instructor.

DESL 1540 Heavy Duty Electrical Systems *(2L, 2LB)(3CR)* Introductory course to electrical systems used in heavy diesel engines. Course will cover fundamental electrical quantities, components and basic circuits. Additional content will cover heavy diesel engine electrical systems.

DESL 1580 Power Train, Braking, and Steering *(3L,4LB) (5 weeks)(5CR)* Manual clutches, drive lines, manual transmissions, and final drive units.
Prerequisites: DESL 1620 or concurrent enrollment

DESL 1610 Engine Rebuilding I *(4L,10LB) (10 weeks)(9CR)* Disassembly procedures, evaluating serviceability of components, preparing the engine block for overhaul; the assembly procedure for crankshafts, bearings, pistons, seals, and valve train; the servicing of cylinder heads including valve grinding and seating; bolt torqueing, timing, and run-in checks.

DESL 1620 Engine Rebuilding II *(3L,4LB)(5CR) (5 weeks Lec, 5 weeks Lab)* Live engines and drive-in work are used for instruction. The students make up the estimates and deal with the customer directly. Students are evaluated on their ability to handle the entire operation from meeting the customer to unit performance on completion.
Prerequisites: DESL 1610.

DESL 1655 Diesel Fuel Systems and Tuning I *(3L, 4LB)(5CR) (5 weeks)* Basic fuel systems, fuel pumps, injectors, and evaluating system failure.
Prerequisites: DESL 1610. Must pass with a "C" or better.

DESL 1660 Diesel Fuel Systems and Tuning II *(3L,4LB)(5CR) (5 weeks)* Air induction systems, injector and fuel pump operations. Troubleshooting and electronic fuel controls.
Prerequisites: Pass DESL 1655 with a "C" or better

DESL 1680 Natural Gas Engine Technology *(6L,1LB)(6.5CR)* Course is designed to cover the principles and service procedures for the natural gas engine and equipment pertinent to the natural gas industry. Course will cover fuels, ignition systems, combustion, lean combustion theory, exhaust gas analysis, lubrication systems, cooling systems, mounting and alignment, and gas compression concepts.
Prerequisites: DESL 1610.

DESL 1850 Basic Hydraulics *(2L, 2LB)(3CR)* Principles of hydraulic systems and components used in mobile equipment. Factors of consideration in the selection, installation, operation, and maintenance of hydraulic systems.

DESL 1980 Cooperative Work Experience *(4-8CR)(Max 8CR)* 8 hours/week for 16 weeks - Total 128 hours Designed to give students hands-on training in diesel equipment maintenance and repair in a production shop setting. A student working for an employer is responsible for employment verification and documentation of hours worked and jobs done. Students staying on campus will meet the training requirements of the department.

ECON 1010 Macroeconomics (SSC) *(3L)(3CR) [E]* An introduction to our present mixed capitalistic economic system. Emphasis is on the role of markets, the determination of national output, inflation and unemployment, the banking system, and the economic role of government.

ECON 1020 Microeconomics (SSC) *(3L)(3CR)* An introduction to the economics behavior of firms and households in a market economy and the environment in which they operate. Also studies the roles of government and foreign trade, as it relates to the decisions of firms and households.

ECON 2400 Environmental Economics *(3L)(3CR)* This is a three-credit introductory course in environmental economics. This course will cover such traditional environmental topics as pollution control, externalities and public lands. Issues of sustainability of the current economic system with respect to fossil fuel use and environmental destruction will be addressed. A balance between theory and institutional background will be presented in this course.
Prerequisites: ECON 1010 and ECON 1020.

EDEC 1020 Introduction to Early Childhood Education *(3L)(3CR) [E]* Introduces the student to the field of early childhood education through lecture discussion, observation, and participation. The student will be exposed to different programs in the community. Topics to be explored include components of quality programs, child development theory, curriculum development, learning environments, classroom management, parent-teacher relationships, importance of play, and teaching as a profession.

EDEC 1030 Infant and Toddler Care *(2L)(2CR)* This course provides information on growth and development of children under the age of three along with curriculum implications; defines the interactive role of the caregiver, and explores other components of infant toddler care including implementation of quality programming and adult interactions. The course along with EDEC 1035 - Infant and Toddler Care Lab meets the criteria for the Wyoming Infant Toddler Credential.

EDEC 1035 Infant and Toddler Care Lab *(2LB)(1CR)* Supervised experience in the care of infants and toddlers at an approved early childhood program. This course along with EDEC 1030, Infant and Toddler Care, meets the criteria for the Wyoming Infant Toddler Credential.
Prerequisites: EDEC 1030 (or concurrent enrollment).

EDEC 1100 Observation and Guidance of Young Children *(2L)(2CR)* Effective methods of observation and guidance to meet the children's needs individually and in groups with an emphasis on promoting a positive and constructive climate in the early childhood setting. Topics include assessments, recording behaviors, planning environments, materials and equipment, scheduling, discipline and parent-teacher communication.
Prerequisites: EDEC 1020, FCSC 2122, PSYC 2300, or permission of the instructor.

EDEC 1105 Observation and Guidance of Young Children Lab *(2LB)(1CR)* Supervised experience in the observation and guidance of young children at an early childhood center. (Spring semester.)
Prerequisites: EDEC 1100 (or concurrent enrollment).

EDEC 1200 Administration in Early Childhood Programs *(3L)(3CR)* Designed to provide students with the opportunity to develop skills in both the business and human relations components of administering centers for young children. Includes procedures in establishing early childhood centers; administrative forms; fiscal management; selection, development, and motivation of staff; parent and community involvement; and program regulations and evaluation. (Fall semester.)
Prerequisites: EDEC 1020, or permission of the instructor.

EDEC 1300 Curriculum Planning and Development for Young Children *(2L)(2CR)* Development of skills in planning, implementing and evaluating developmentally appropriate experiences to encourage intellectual, physical, social, emotional, and creative growth in young children with the focus on the concept of the whole child.
Prerequisites: EDEC 1020, FCSC 2122, PSYC 2300, or permission of the instructor.

EDEC 1305 Curriculum Planning and Development for Young Children Lab *(2LB)(1CR)* Supervised experience in planning, implementing and evaluating curriculum activities at an early childhood center.
Prerequisites: EDEC 1300 or concurrent enrollment.

EDEC 2200 Early Childhood Practicum *(2L, 8LB)(6CR)* By actively participating in the care and education of young children in an early childhood program, students should become more proficient in administrative skills, increase their awareness of contemporary issues in early childhood, and demonstrate a high level of competence as a head teacher. Students will serve in directed field experience; one eight-hour day per week for a total of 120 clock hours. Students will also serve 30 hours in seminar during the semester. Enrollment is limited to majors in early childhood education except by permission of the instructor.
Prerequisites: EDEC 1100 and EDEC 1105, EDEC 1300 and

EDEC 1305, or permission of the instructor.

EDEL 2010 Mentoring in Education *(1-2L)(1-2CR)* This course will focus on specific teaching techniques and strategies utilized when mentoring third, fourth and fifth grade elementary students. Students in this course will also reflect upon strategies to continually improve teaching techniques. This course is associated with the Help Yourself Academy, an afterschool program designed to offer students the opportunity to focus on a math and science curriculum.

EDEL 2100 Family, School, and Community Engagement *(3L)(3CR)* This course examines the relationship between the child, the family, the community, and teachers. Topics include strengthening adult-child relationships and parent- staff relationships in the home, school, and community settings, an awareness of strategies in developing positive and supportive relationships with families of elementary school children with special needs, including the legal and philosophical basis for family participation; family-centered services; and strategies for working with socially, culturally, and linguistically diverse families will be included. The importance of family involvement in school programs and parent education will be stressed.
Prerequisites: EDFD 2020 or EDEC 1020

EDEL 2140 Literacy Foundations *(3L)* Provides an acquaintance with basic assumptions underlying curriculum and processes in literacy and to give opportunity for selecting and using instructional materials.
Prerequisites: ENGL 1010, EDFD 2020

EDEL 2280 Literature for Children *(3L)(3CR) [E]* A survey course designed for reading and discussion of works of literature for children. Selection of children's books for school, home, and library is stressed. In order to establish criteria for evaluation, students are expected to become acquainted with a wide sampling of children's literature including classics, both old and new.
Prerequisites: ENGL 1010.

EDEX 2484 Intro to Special Education *(3L) [E]* This course is designed to meet the needs of education majors for a required course in special education. It provides a broad overview of effective intervention models of instruction and/or behavior techniques for special needs students within an inclusion setting and/or other continuum of special education options which meet the least restrictive environment. Finally, this class would be helpful for individuals in other fields who need an introduction to the field of special education.
Prerequisites: EDFD 2020, ITEC 2360, EDFD 2100 or permission from the instructor.

EDFD 2020 Foundations of Education *(3L)(3CR)* A foundations course designed to provide a general survey of educational thought and practice. Emphasis is given to critical thinking about numerous educational points of view. Students enrolled in this course must be 18 years of age or older. Prerequisites: Concurrently enrolled or completion of ENGL 1010.

EDFD 2100 Educational Psychology *(3L)(3CR) [E]* Provides an overview of the field of educational psychology, its theoretical bases, and classroom application to the teaching-learning process and examines research design in education.
Prerequisites: EDFD 2020 and PSYC 1000

EDST 2250 - Educational Assessment *(3L)(3CR)* This course is designed to introduce students to key concepts and issues in classroom assessment and large-scale, standardized educational assessment. Topics include, but are not limited to standards and benchmarks, reliability and validity of norm-referenced and criterion-referenced assessments, standardized tests, performance assessments, and special issues surrounding the assessment of students with special needs. Additionally, this course addresses the basic ideas of classroom test design and planning.
Prerequisites: EDFD 2020 - Foundations of Education

EDUC 1501 Effective Substitute Teaching

(2L)(2CR) This course is designed for community members and current college students who desire to learn skills and knowledge to be effective substitute teachers. More specifically: learn to apply professional teacher ethics and responsibilities; the application of effective classroom/behavioral management techniques; application of best practices and instructional strategies to address individual student learning differences. Training will also be provided for interactive technologies that are currently used in K-12 classrooms. The course will also review the credentials and process needed to apply for a Wyoming Substitute Teaching Permit through Wyoming Professional Teaching Standards Board (PTSB). Post-course completion does not automatically provide eligibility for PTSB Substitute Permit. Individuals will need to complete the PTSB application which includes a background check, 60 college credits (official transcript), and pay required fees to PTSB.

EDUC 2100 Practicum in Teaching

(2L,2LB)(4CR) This course is for prospective educators and a capstone course for education majors at the sophomore level. Students will participate in a practicum experience in a public-accredited school under the supervision of a certified mentor teacher for a minimum of 60 hours. Students will also attend one weekly 110-minute class session. Electronic portfolios are used extensively in this course to demonstrate student proficiencies in content knowledge, skills and preparation to be an effective teacher. Assignments, projects, and classroom experiences are aligned with NCATE accreditation and InTASC standards. Students enrolled in this course must be 18 years of age or older.
Prerequisites: EDFD 2100, EDFD 2020; concurrent or completion of ITEC 2360 & GPA of 2.5 or higher.

ELAP 1510 Union Electrical Apprentice I

(5L)(5CR) Casper College partners with the Wyoming Electrical Joint Apprenticeship and Training Committee (WJATC) to provide extensive training designed to complement on-the-job training received by electrical apprentices. Classes meet several times a year for a week at a time over the 4-year apprenticeship program duration. The combination of course work and training prepare an apprentice electrician to take the journeyman electrician exam administered by the State of Wyoming Department of Fire and Electrical Safety. Course ELAP 1510 is a first year course scheduled for completion during the fall semester. This course is designed to provide the beginning electrical apprentice the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include: safety, introductions to the National Electrical Code, basic electrical theory, wiring methods and important information about Wyoming Joint Apprenticeship Training Council (WJATC), National Electrical Contractors Association (NECA), and the International Brotherhood of Electrical Workers (IBEW).
Prerequisites: Acceptance into the WJATC apprenticeship program, recommended status as a first-year Electrical Apprentice with a WJATC approved contractor and registered with the State of Wyoming Electrical Board of the Department of Fire and Prevention and Electrical Safety as an apprentice electrician.

ELAP 1515 Electrical Apprentice 1A

(5L)(5CR) This is the first semester class of a series of classes mandated for electrical apprentices. This series of classes is designed to complement the on-the-job training received by electrical apprentices. This course is designed to provide the beginning electrical apprentice with the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include safety, introduction to the National Electrical Code, basic electrical theory, lighting and appliance circuits, and wiring methods.
Prerequisites: Recommended status as a first-year Electrical Apprentice with and Independent Electrical contractor, and registered with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety, as an apprentice electrician.

ELAP 1520 Union Electrical Apprentice II

(5L)(5CR) Casper College partners with the Wyoming Electrical Joint Apprenticeship and Training Committee (WJATC) to provide extensive training designed to complement on-the-job training received by electrical apprentices. Classes meet several times a year for a week at a time over the 4-year

apprenticeship program duration. The combination of course work and training prepare an apprentice electrician to take the journeyman electrician exam administered by the State of Wyoming Department of Fire and Electrical Safety. Course ELAP 1520 is a first year course scheduled for completion during the spring semester. This course is designed to provide the beginning electrical apprentice the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include: safety, introductions to the National Electrical Code, basic electrical theory and wiring methods. Additionally, this course will cover Ohm's Law, powerlaw, Kirchhoff's current law to electrical currents. **Prerequisites:** Acceptance into the WJATC apprenticeship program, successful completion of ELAP 1510, recommended status as a first-year Electrical Apprentice with a WJATC approved contractor and registered with the State of Wyoming Electrical Board of the Department of Fire and Prevention and Electrical Safety as an apprentice electrician.

ELAP 1525 Electrical Apprentice 1B *(5L)(5CR)*

This is the second semester class of a series of classes mandated for electrical apprentices. This series of classes is designed to complement the on-the-job-training received by electrical apprentices. This course is designed to provide the beginning electrical apprentice with the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include safety, introduction to the National Electrical Code, basic electrical theory, lighting and appliance circuits, and wiring methods. **Prerequisites:** Recommended status as a first-year Electrical Apprentice with an Independent Electrical contractor, and registered with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety, as an apprentice electrician.

ELAP 1530 Union Electrical Apprentice III

(5L)(5CR) Casper College partners with the Wyoming Electrical Joint Apprenticeship and Training Committee (WJATC) to provide extensive training designed to complement on-the-job training received by electrical apprentices. Classes meet several times a year for a week at a time over the 4-year apprenticeship program duration. The combination of course work and training prepare an apprentice electrician to take the journeyman electrician exam administered by the State of Wyoming Department of Fire and Electrical Safety. Course ELAP 1530 is a first year course scheduled for completion during the summer semester. This course is designed to provide the beginning electrical apprentice the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include: safety, introductions to the National Electrical Code, basic electrical theory and wiring methods. Additionally, students will learn how to differentiate between parallel and series paths in electrical circuits. **Prerequisites:** Acceptance into the WJATC apprenticeship program, successful completion of ELAP 1520, recommended status as a first-year Electrical Apprentice with a WJATC-approved contractor and registration with the State of Wyoming Electrical Board of the Department of Fire and Prevention and Electrical Safety as an apprentice electrician.

ELAP 1535 Electrical Apprentice 2A *(5L)(5CR)*

This is the third semester class of a series of classes mandated for electrical apprentices. This series of classes is designed to complement the on-the-job-training received by electrical apprentices. This course is designed to provide second year electrical apprentice with the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include safety, the National Electrical Code, electrical theory, and industrial wiring methods. **Prerequisites:** Recommended status as a second-year Electrical Apprentice with an Independent Electrical contractor, and registered with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety, as an apprentice electrician.

ELAP 1540 Union Electrical Apprentice IV

(5L)(5CR) Casper College partners with the Wyoming Electrical Joint Apprenticeship and Training Committee (WJATC) to provide extensive training designed to complement on-the-job training received by electrical apprentices. Classes meet several times a year for a week at a time over the 4-year apprenticeship program duration. The combination of course work and training prepare an apprentice electrician to take the journeyman electrician exam administered by the State of Wyoming

Department of Fire and Electrical Safety. Course ELAP 1540 is a second year course scheduled for completion during the fall semester. This course is designed to provide the beginning electrical apprentice the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include: safety, introductions to the National Electrical Code, basic electrical theory and wiring methods. The course will teach students to properly read and interpret residential blueprints. **Prerequisites:** Acceptance into the WJATC apprenticeship program, successful completion of ELAP 1530 , recommended status as a second-year Electrical Apprentice with a WJATC approved contractor and registered with the State of Wyoming Electrical Board of the Department of Fire and Prevention and Electrical Safety as an apprentice electrician.

ELAP 1545 Electrical Apprentice 2B *(5L)(5CR)*

This is the fourth semester class of a series of classes mandated for electrical apprentices. This series of classes is designed to complement the on-the-job-training received by electrical apprentices. This course is designed to provide the 2nd or 3rd year electrical apprentice with the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include industrial applications and the National Electrical Code. **Prerequisites:** Recommended status as a second-year Electrical Apprentice with an Independent Electrical contractor, and registered with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety, as an apprentice electrician.

ELAP 1550 - Union Electrical Apprentice V

(5L)(5CR) Casper College partners with the Wyoming Electrical Joint Apprenticeship and Training Committee (WJATC) to provide extensive training designed to complement on-the-job training received by electrical apprentices. Classes meet several times a year for a week at a time over the 4-year apprenticeship program duration. The combination of course work and training prepare an apprentice electrician to take the journeyman electrician exam administered by the State of Wyoming Department of Fire and Electrical Safety. Course ELAP 1550 is a second year course scheduled for completion during the spring semester. This course is designed to provide the beginning electrical apprentice the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include: safety, introductions to the National Electrical Code, basic electrical theory and wiring methods. Additionally, the course will cover grounding, bonding and transformers. **Prerequisites:** Acceptance into the WJATC apprenticeship program, successful completion of ELAP 1540 , recommended status as a second-year Electrical Apprentice with a WJATC approved contractor and registered with the State of Wyoming Electrical Board of the Department of Fire and Prevention and Electrical Safety as an apprentice electrician.

ELAP 1555 Electrical Apprentice 3A *(5L)(5CR)*

An in depth study of commercial installations, including NEC requirements and calculations for same. **Prerequisites:** Recommended status as a second or third year Electrical Apprentice with an Independent Electrical contractor, and registered with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety, as an apprentice electrician.

ELAP 1560 Union Electrical Apprentice VI

(5L)(5CR) Casper College partners with the Wyoming Electrical Joint Apprenticeship and Training Committee (WJATC) to provide extensive training designed to complement on-the-job training received by electrical apprentices. Classes meet several times a year for a week at a time over the 4-year apprenticeship program duration. The combination of course work and training prepare an apprentice electrician to take the journeyman electrician exam administered by the State of Wyoming Department of Fire and Electrical Safety. Course ELAP 1560 is a second year course scheduled for completion during the summer semester. This course is designed to provide the beginning electrical apprentice the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include: safety, introductions to the National Electrical Code, basic electrical theory and wiring methods. Additionally, the course will cover grounding and bonding and transformers II. **Prerequisites:** Acceptance into the WJATC apprenticeship program, successful completion

of ELAP 1550 , recommended status as a second-year Electrical Apprentice with a WJATC approved contractor and registered with the State of Wyoming Electrical Board of the Department of Fire and Prevention and Electrical Safety as an apprentice electrician.

ELAP 1565 Electrical Apprentice 3B *(5L)(5CR)*

An in depth study of commercial installations, including NEC requirements and calculations for same.
Prerequisites: Recommended status as a second or third year Electrical Apprentice with an Independent Electrical contractor, and registered with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety, as an apprentice electrician.

ELAP 1570 Union Electrical Apprentice VII

(6L)(6CR) Casper College partners with the Wyoming Electrical Joint Apprenticeship and Training Committee (WJATC) to provide extensive training designed to complement on-the-job training received by electrical apprentices. Classes meet several times a year for a week at a time over the 4-year apprenticeship program duration. The combination of course work and training prepare an apprentice electrician to take the journeyman electrician exam administered by the State of Wyoming Department of Fire and Electrical Safety. Course ELAP 1570 is a third year course scheduled for completion during the fall semester. This course is designed to provide the beginning electrical apprentice the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include: safety, introductions to the National Electrical Code, basic electrical theory and wiring methods. This course will cover magnetism and induction, alternators, three-phase motors and basic level I motor operation in addition to motor controls.
Prerequisites: Acceptance into the WJATC apprenticeship program, successful completion of ELAP 1560 , recommended status as a third-year Electrical Apprentice with a WJATC approved contractor and registered with the State of Wyoming Electrical Board of the Department of Fire and Prevention and Electrical Safety as an apprentice electrician.

ELAP 1575 Electrical Apprentice 4A *(5L)(5CR)*

This is the seventh semester class of a series of classes mandated for electrical apprentices. This series of classes is designed to complement the on-the-job-training received by electrical apprentices. This course is designed to provide the 4th year electrical apprentice with the necessary skills and knowledge to ensure safe and efficient work practices on the job. The National Electrical Code and journeyman type questions will be covered along with individual review topics.
Prerequisites: Recommended status as a fourth year Electrical Apprentice with an electrical contractor, and registered with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety, as an apprentice electrician.

ELAP 1580 - Union Electrical Apprentice VIII *(6L)(6CR)*

Casper College partners with the Wyoming Electrical Joint Apprenticeship and Training Committee (WJATC) to provide extensive training designed to complement on-the-job training received by electrical apprentices. Classes meet several times a year for a week at a time over the 4-year apprenticeship program duration. The combination of course work and training prepare an apprentice electrician to take the journeyman electrician exam administered by the State of Wyoming Department of Fire and Electrical Safety. Course ELAP 1580 is a third year course scheduled for completion during the spring semester. This course is designed to provide the beginning electrical apprentice the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include: safety, introductions to the National Electrical Code, basic electrical theory and wiring methods. This course will also cover motors level I, which includes all aspects of motors and motor control.
Prerequisites: Acceptance into the WJATC apprenticeship program, successful completion of ELAP 1570, recommended status as a third-year Electrical Apprentice with a WJATC approved contractor and registered with the State of Wyoming Electrical Board of the Department of Fire and Prevention and Electrical Safety as an apprentice electrician.

ELAP 1585 - Electrical Apprentice 4B *(5L)(5CR)*

This is the eighth semester class of a series of classes mandated for electrical apprentices. This series of classes is designed to complement the on-the-job-training received by electrical apprentices. This course is designed to provide the 4th year electrical apprentice with the necessary skills and knowledge to ensure safe and efficient work practices on the job. The National Electrical Code and journeyman type questions will be covered along with individual review topics. **Prerequisites:** Recommended status as a fourth year Electrical Apprentice with an electrical contractor, and registered with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety, as an apprentice electrician.

ELAP 1590 - Union Electrical Apprentice IX

(6L)(6CR) Casper College partners with the Wyoming Electrical Joint Apprenticeship and Training Committee (WJATC) to provide extensive training designed to complement on-the-job training received by electrical apprentices. Classes meet several times a year for a week at a time over the 4-year apprenticeship program duration. The combination of course work and training prepare an apprentice electrician to take the journeyman electrician exam administered by the State of Wyoming Department of Fire and Electrical Safety. Course ELAP 1590 is a fourth year course scheduled for completion during the fall semester. This course is designed to provide the beginning electrical apprentice the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include: safety, introductions to the National Electrical Code, basic electrical theory and wiring methods. This course will cover instrumental level I and instrumentation level II in addition to code work. **Prerequisites**: Acceptance into the WJATC apprenticeship program, successful completion of ELAP 1580 , recommended status as a fourth-year Electrical Apprentice with a WJATC approved contractor and registered with the State of Wyoming Electrical Board of the Department of Fire and Prevention and Electrical Safety as an apprentice electrician.

ELAP 1600 - Union Electrical Apprentice X

(6L)(6CR) Casper College partners with the Wyoming Electrical Joint Apprenticeship and Training Committee (WJATC) to provide extensive training designed to complement on-the-job training received by electrical apprentices. Classes meet several times a year for a week at a time over the 4-year apprenticeship program duration. The combination of course work and training prepare an apprentice electrician to take the journeyman electrician exam administered by the State of Wyoming Department of Fire and Electrical Safety. Course ELAP 1600 is a fourth year course scheduled for completion during the spring semester. This course is designed to provide the beginning electrical apprentice the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include: safety, introductions to the National Electrical Code, basic electrical theory and wiring methods. This class will also include code calculations, applied codeology and information about the journeyman examination. **Prerequisites:** Acceptance into the WJATC apprenticeship program, successful completion of ELAP 1590, recommended status as a fourth-year Electrical Apprentice with a WJATC approved contractor and registered with the State of Wyoming Electrical Board of the Department of Fire and Prevention and Electrical Safety as an apprentice electrician.

ELTR 1545 Utility Locator Certification

(1.5L, 1LB) (2CR) Fundamentals of underground utility location will be covered. This will include the methods used to change the transmitter current levels, change the shape of the magnetic field, how to measure the magnetic field with the receiver, and how to produce a round magnetic field and verify depth. Successful completion of this course will result in certification as an underground utility locator.

ELTR 1570 Electric Circuits *(2L,4LB)(4CR)*

Fundamentals of DC and AC circuit analysis, electromagnetics, and single-phase transformers. Fall

ELTR 1645 Accelerated Utility Locator Certification *(1.5L)(1.5CR)*

This course is designed for utility locators that have two years or more of utility locating experience. The course will cover the fundamentals of utility locating, practical demonstrations of concepts

covered in the lectures, Wyoming state law for utility locating, and the federal law for utility locating. Successful completion of this course will result in certification as an underground utility locator.

ELTR 1700 Solid State Devices *(2L,4LB)(4CR)* This course explores the principles of operation and behavior of solid state devices including diodes, BJTs, FETs, MOSFETS and Operational Amplifiers. Spring

ELTR 1760 Digital Electronics *(2L.2LB)(3CR)* Logic circuits associated with the control and operation of a digital computer. Application of the specific logic circuits through selected laboratory experiments.

ELTR 1980 Cooperative Work Experience (Electronics) *(1-8CR) (Max 8)* On-the-job training with a cooperative industrial or commercial electronics maintenance, fabrication or service facility. Eighty hours of work per semester earns one hour of credit.

ELTR 2515 Licensing for Electronics *(1L)(1CR)* This course is for electronic, electrical, industrial and educational technicians who need to be certified. The course will focus on the FCC, Certified Electronics Technician, and other national certification exams.

ELTR 2570 Process Control *(2L, 2LB)(3CR)* Fundamentals of process control systems using PID control. Students will control single and multivariable processes and calibrate sensors. Other topics include valve actuators and industrial data communications. Spring
Prerequisites: Completion of ELTR 1570, or permission of the instructor.

ELTR 2600 Electronic Communication *(2L, 2LB)(3CR)* Emphasis on radio receivers and transmitters, antennas, amplitude and frequency modulation FM stereo multiplex circuits, and FM radios.
Prerequisites: ELTR 1700 or permission of instructor.

ELTR 2610 Microcontrollers for Automation *(3L)(3CR)* Programming microcontrollers to read inputs and control outputs. Students will learn PLC fundamentals & basic ladder logic instructions through hands-on exercises. Spring
Prerequisites: ELTR 1570, or permission of instructor

ELTR 2815 Programmable Logic Controllers *(1L, 4LB)(3CR)* Students will learn Rockwell Automation CompactLogix hardware, Studio 5000 Logix Designer & RSLinx Classic software to build skills for programming Industrial Control Systems that operate critical infrastructure. Hands-on projects will use ladder logic, seal in logic, latches, timers, counters, comparison instructions & math instructions to solve Industrial Automation & Manufacturing problems.
Prerequisites: Completion or concurrent enrollment in ELTR 1570 or permission of the instructor.

ELTR 2840 Motor Controls *(2L,4LB)(4CR)* Fundamentals of AC electrical machines and transformers. Topics covered are electromagnetism, transformers, AC motors and motor control. Spring
Prerequisites: Completion or concurrent enrollment in or permission of the instructor.

ELTR 2870 Security Systems *(2L,2LB)(3CR)* In this course students will learn how to design, analyze, install, & troubleshoot networked security systems. Key topics that will be examined include AI-artificial intelligence, Operational Security of Infrastructure, Industrial Internet of Things, NVR-Network Video Recorder, PLC-Programmable Logic Controller Networks, and SCADA-Supervisory Control and Data Acquisition systems. Fall

ELTR 2910 Computer Networking *(2L, 2LB)(3CR)* This is an introduction to the technical and software aspects of local area networks. The course will include hands-on lab exercises for learning networking fundamentals, network cable systems, and system troubleshooting.

ELTR 2925 Fiber Optics *(2L, 4LB)(4CR)* Fundamentals of light-wave communications and transmission. Includes the fundamentals of light, light sources, optical fiber characteristics, splices, connectors, couplers, receiver, and driver systems. System maintenance and splicing will be stressed. Safety procedures will be stressed throughout the course of instruction.

ELTR 2975 Independent Study in Electronics *(1-3CR) (Max. 6)* Electronics majors who have completed the introductory courses may be permitted to contract with the instructor for special advanced problems in electrical applications to be pursued as independent study.
Prerequisites: sophomore standing and permission of the instructor.

EMGT 1500 Principles of Emergency Management
(2L)(2CR) The basic concepts of emergency management and its integration into government and the private sector. Students will identify hazards and coordinating planning, response and recovery from disasters.

EMS 2500 Advanced Emergency Medical Technician* *(6L, 6LB)(8CR)*
This course is designed to provide the student with an expanded an enhanced knowledge of Emergency Medical Services and how to provide advanced care for the sick and injured. This course follows the current National EMS Education Standard.
**Course Note: All students are required to submit and pass a background check. Please contact Sandy Bruning after registering.*
Prerequisites: Successful completion of EMS 1500 and permission of instructor.

EMS 2550 Wyoming Emergency Medical Technician-Intermediate* *(5L, 3LB)(6CR)* This course is designed to provide the student with an expanded and enhanced knowledge of Emergency Medical Services and how to provide advanced care for the sick and injured. This course follows the current Wyoming EMS Education Standard.
**Course Note: All students are required to submit and pass a background check. Please contact Sandy Bruning after registering.*
Prerequisites: The student must contact the instructor for approval prior to enrollment. Successful completion of EMS 2500 is required.

EMS 2600 Paramedic I
(7L,3LB)(8CR) This course covers the foundations of Paramedicine, pharmacology, and airway support. Emphasis will be placed on the Paramedic's role in the team environment that is EMS. Lab and the opportunity for field experience to cement newly-learned skills will be provided.
**Course Note: All students are required to submit and pass a background check. Please contact Sandy Bruning after registering.*
Prerequisites: Students must apply for entrance, and be accepted into the paramedic program prior to enrollment. Students must have a current National Registry and/or Wyoming EMS Provider Card.

EMS 2700 Paramedic II
(7L, 3LB)(8CR) Incorporating pathophysiology and epidemiology into decision-making, the candidate is introduced to more advanced Paramedicine with the formation of treatment plans for medical patients, and understanding the kinetics and homeostatic requirements of trauma patients. Field experience will be provided to reinforce the advanced treatment processes learned. Students will participate in Specialty Certifications.
Prerequisites: Students must complete EMS 2600EMS 2600 with a letter grade of "B" or higher.
Concurrently: Students must be enrolled in EMS 2971

EMS 2800 Paramedic III
(7L, 3LB)(8CR) Mastering the skills learned thus far the candidate continues to develop well-constructed treatment plans for any patient presented to them. Special patient populations will be explored and addressed for their unique needs. Crisis resource management will be discussed, including how to manage the human element of the scene. The lab will be a critical component of this final course as it will prepare the candidate to pursue team leads during his/her Capstone.
Prerequisites: Students must complete EMS 2700 and EMS 2971 both with a letter grade "B" or higherAdvanced Placement students will have applied, tested, and be accepted into the program to start this semester.
Concurrently: Students will be enrolled in EMS 2974.

EMS 2895 Paramedic Capstone *(3L,15LB)(8CR)*
This clinical time is to solidify and put into practice all that has been learned to this point. The student will be able to apply the skills and knowledge gained in previous classroom and clinical experience in order to provide quality and appropriate patient care and transportation to the most appropriate facility. This will be accomplished through extensive clinical and field internship time as well as classroom time preparing for state and national certifying examinations.

Prerequisites: Successful completion of all prior semesters of EMS with a grade of "B" or higher.

EMS 2961 Community EMS Technician *(3L, 2LB)(4CR)*

The Community Emergency Medical Services Technician course prepares the student to assist patients in the home to access appropriate healthcare resources. Community resources and needs are discussed along with advanced assessment techniques, environmental assessment and safety concerns in order to assist the patient in gaining access to the most appropriate level of medical services in a timely manner that is beneficial to the patient, and the healthcare system as a whole. This course will be offered annually in the fall semester as long as there is a demonstrated need.
Prerequisites: Students are required to be currently licensed at the EMT, AEMT, IEMT or paramedic level.
Concurrently: EMS 2962

EMS 2962 Community EMS Technician Clinical

(2LB)(1CR) The Community Emergency Medical Services Technician Clinical course prepares the student to assist patients in the home to access appropriate healthcare resources by providing supervised experiences within the local community. Community resources and needs are discussed and utilized, along with advanced assessment techniques, environmental assessment and safety concerns, in order to assist the patient in gaining access to the most appropriate level of medical services in a timely manner that is beneficial to both the patient and the healthcare system. This course will be offered annually in the fall semester as long as there is a demonstrated need.
Prerequisites: Students are required to be currently licensed at the EMT, AEMT, IEMT or paramedic level.
Concurrently: EMS 2961 Community EMS Technician (4CR).

EMS 2963 Community EMS Clinician *(5L, 6LB)(8CR)*

The Community Emergency Medical Services Clinician course prepares the student to expand upon the CEMS Technician role by increasing the level of assistance provided to patients in the home to access appropriate healthcare resources. Community resources and needs are discussed along with advanced assessment techniques, environmental assessment and safety concerns in order to assist the patient in gaining access to the most appropriate level of medical services in a timely manner that is beneficial to the patient, and the healthcare system as a whole. This course will be offered annually as required to meet local and statewide needs.
Prerequisites: Students must apply for entrance, and be accepted into the Community EMS Program before enrollment. Successful completion of EMS 2961 and EMS 2962. In addition, applicants must meet the requirements prescribed by the Community EMS program director.
Concurrently: EMS 2964 Community EMS Clinician Clinical (3CR)

EMS 2964 Community EMS Clinician Clinical

(3LB)(3CR) This course prepares the student to expand upon the CEMS Technician role by increasing the level of assistance provided to patients in the home to access appropriate healthcare resources. Community resources and needs are discussed along with advanced assessment techniques, environmental assessment, and safety concerns to assist the patient in gaining access to the most appropriate level of medical services in a timely manner that is beneficial to the patient, and the healthcare system as a whole. This course will be offered annually as required to meet local and statewide needs.
Prerequisites: Students must apply for entrance, and be accepted into the Community EMS Program before enrollment. Successful completion of EMS 2961 and EMS 2962.
In addition, applicants must meet the requirements prescribed by the Community EMS program director.
Concurrently: Concurrent enrollment in EMS 2963 is required.

EMS 2971 Paramedic Practicum Clinical II

(9LB)(3CR) This clinical time is dedicated to initiating intravenous access, medication administration and airway management in the clinical setting.
Prerequisites: Successful completion of EMS 2600 with a letter grade of "B" or higher.
Concurrently: Concurrent enrollment in EMS 2700 and permission of the instructor.

EMS 2974 Paramedic Practicum Clinical III

(15LB)(5CR) Students will continue to master their patient assessments, paramedic skills, and treatment plans for any patient they may encounter.
Prerequisites: Successful completion of EMS 2700 and EMS 2971 both with a letter grade "B" or higher.
Concurrently: Concurrent enrollment in EMS 2800 .

EMS 1500 Emergency Medical Technician

(6L,9LB) An entry-level education in emergency medical services to prepare a student for a career in emergency services. *Course Note: All students are required to submit and pass a background check. Please contact Sandy Bruning after registering. Fall
Prerequisites: Age: 17
Cumulative GPA: 2.0 OR High School Equivalency Certification
Basic Emergency Care / Emergency Medical Responder (Preferred)

ENGL 0800 Introduction to College Reading and Writing I

(5L)(5CR) Reading and writing are both processes of composing and are requisites to success in all college courses. This first level developmental English course provides instruction for critical reading and critical thinking skills used to compose a variety of effective writings. Students will have the opportunity to practice writing skills, review grammar and mechanics, read a variety of materials, and learn methods of responding to readings.
Prerequisites: Acceptable placement score.

ENGL 0850 Accelerated Writing and Reading

(5L)(5CR) This course will combine the skills learned in ENGL 0800 and ENGL 0900 Combined writing skills seeks to strengthen the student's writing fluency through a study of selected elements of basic composition. These include grammar, spelling, and punctuation as well as sentence development, paragraph development, and essay development. The course introduces students to different patterns of organization and various types of writings through assigned readings and multiple-draft writing assignments.
Prerequisites: Acceptable placement score or completion of the pre-requisite course with a "C" or better.

ENGL 0900 Introduction to College Reading and Writing II

(4L)(4CR) Reading and writing are both processes of composing and are requisites to success in ENGL 1010. This upper level developmental English course provides instruction for active reading and critical thinking skills used to compose effective essays. Students will have opportunities to practice a recursive writing process and will be introduced to using outside texts as a way to generate ideas. Students are given the option of receiving S/U grades. Students receiving "C" or better in any 1000 or 2000 level English course may not subsequently earn credit in ENGL 0900.
Prerequisites: Acceptable placement score or completion of ENGL 0800 with a "C" or better.

ENGL 0910 Enhancement for Comp I

(3L)(3CR) ENGL 910 is a course devoted to improving students' writing and critical reading as a corequisite to ENGL 1010. This course provides intensive instruction writing expository essays for specific audiences as well as instruction in reading and working with college level texts. It emphasizes the process of drafting, revising, and editing, as well as comprehending and interpreting a variety of texts. This course enables students who place into the higher level developmental English to complete the college level composition sequence more quickly. Students are given the option of receiving S/U grades. Students receiving "C" or better in any 1000 or 2000 level English course may not subsequently earn credit in ENGL 0910. Fall and Spring semesters
Prerequisites: Acceptable placement score or a grade of "C" or higher in ENGL 0800.
Concurrently: Students enrolled in this course must be concurrently enrolled in the corresponding section of ENGL 1010

ENGL 1010 English Composition I (COM1)

(3L)(3CR) [E] A study of the fundamentals of purposeful communication in English. The course focuses on reading and writing expository essays, on using effective language for exposition of ideas, and on thinking clearly. Students are to practice synthesizing information, organizing it coherently, and writing clearly.
Prerequisites: Acceptable placement score or completion of ENGL 0850 or ENGL 0900 with a "C" or better.

ENGL 1020 English Composition II (COM1)

(3L)(3CR) An extension of ENGL 1010. Further refines the student's abilities to gather and synthesize material from independent reading. Students study language both to appreciate its precise control and to interpret the experience of others. College-level essays (including a research paper) and two oral presentations are required.
Prerequisites: A grade of "C" or higher in ENGL 1010.

ENGL 1040 Intro to Creative Writing

(3L)(3CR) A study and workshop in the technique of the craft of writing poetry, fiction, non-fiction, and drama for the purpose of self-expression and cultural understanding. As needed

ENGL 2005 Writing in Technology and the Sciences (COM1)

(3L)(3CR) [E] Technical Writing further refines the student's abilities to gather and synthesize material from independent reading. In addition the course develops writing styles and techniques, document design and formats, and audiences/readership considerations specifically suited to technological and scientific fields of study. Two oral presentations that incorporate visual rhetoric. The course concludes with a student directed research proposal or other research project, culminating in one of the two required presentations.
Prerequisites: A grade of "C" or higher in ENGL 1010 within the last ten years.

ENGL 2006 Environmental Literature *(3L)(3CR)*

Environmental literature is a survey course that will explore the major environmental texts and some of the writers of our time. Students interested in nature writing, literature and environmental politics will appreciate this course. Essay writing and group work will be required to complete this study.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2011 Literature for Young Adults

(3L)(3CR) This course will be a study of the origin, development, and cultural underpinnings of the field of Young Adult fiction, and an overview of many of the subgenres of the field.
Prerequisites: ENGL 1010.

ENGL 2020 Literature, Media, and Culture

(3L)(3CR) Introduces students to the basic tools of literary, film, and media analysis and develops students' critical writing, digital analysis, and oral communication skills. Relevant for all majors.
Prerequisites: A grade of C or better in ENGL 1010

ENGL 2045 Conferencing with Writers *(3L)(3CR)*

This course covers methodology of one-to-one and one-to-small group writing tutoring. The course introduces writing tutors to the education principles and Writing Center goals underlying common tutoring techniques. Topics addressed are theories of learning, principles of memory, learning styles, successful tutoring techniques, online tutoring, and writing across the curriculum. Writing tutors will observe and participate in tutoring sessions in the Casper College, UW/CC Writing Center. This course is required for, but not restricted to, Writing Center Staff. Non-Writing Center staff must make arrangements with the director to provide for alternative tutoring situations.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2050 Creative Writing: Fiction (FA)

(3L)(3CR) [E] Analysis of the elements of fiction and practice of writing fiction at the introductory and intermediate level.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2055 Creative Writing: Writing in the Wild *(3L)(3CR)*

Student-centered, week-long field experience in Yellowstone National Park focuses on reading and writing imaginative verse and prose inspired by nature. Class days are devoted to collecting journal observations during daily hikes, engaging in a variety of writing exercises, and discussing readings and each other's writing. The course culminates in the submission of a writing portfolio.
Prerequisites: ENGL 1010 or permission of the instructor, alert senses, and the ability to hike moderate distances (6-12 miles a day) over uneven terrain. ENGL 1020 recommended.

ENGL 2060 Creative Writing: Nonfiction (FA)

(3L)(3CR) As the enormous popularity of national bestsellers demonstrate, the creative nonfiction genre has far-reaching appeal for the millions of readers. In this course the student will analyze the elements of nonfiction and practice writing nonfiction at the introductory and intermediate level.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2080 Creative Writing: Poetry (FA)

(3L)(3CR) [E] Analysis of the forms of poetry, and practice of writing poetry at the introductory and intermediate level.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2140 World Literature I *(3L)(3CR)*

Exploring literature from a wide array of time periods and language backgrounds, this course examines great works of world literature, ancient and modern. This course also engages themes as explored through various time periods, cultures, and visual genres like cinema and the visual arts. Through discussion and analysis, this course explores the diverse ways that cultures attempt to express themselves through written and artistic expression.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2145 War Literature *(3L)(3CR)* War

stories exist at the nexus of two fundamental human drives: the drive to create, and the drive to destroy. In an effort to better understand these human impulses, students in War Literature will examine a range of texts that deal with complex, multivalent experiences of war. Texts will include letters, poems, stories, songs, speeches, propaganda, and film.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2185 Classical Mythology (HU) *(3L)(3CR)*

Focuses on Greek myth and legend. Included as background are geography, history, excerpts from literature, and theories of interpretation.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2205 Intro to Literature (HU) *(3L)(3CR)*

Introduction to Literature celebrates the arts of narrative and poetic expression. Acknowledging that from its earliest days, humanity has sought to understand the world through storytelling and written art, students will read various manifestations of literature, seeking in them the heart of human experience: love and pity and pride and compassion and sacrifice, to name a few. Ultimately, the course invites students to see themselves in the many literary characters and situations they encounter, developing empathy and vicarious experience.
Prerequisites: ENGL 1010
Concurrently: English 1020 recommended

ENGL 2210 English Literature I (HU)

(3L)(3CR) A survey of British literature from the Anglo-Saxons to the 18th century. Emphasis is on reading, discussing, and writing about important works in our literary heritage.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2220 English Literature II (HU)

(3L)(3CR) A survey of British literature from the early 19th century to the modern period. Emphasis is on reading, discussing, and writing about important works in our literary heritage.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2230 Intro to Shakespeare (HU)

(3L)(3CR) Students are introduced to the works of Shakespeare through careful reading (and re-reading) of representative major plays and/or sonnets in order to become acquainted with Shakespeare's dramatic and poetical art. Both formal lecture and discussion will cover each reading. From time to time the class will watch tapes of scenes from the plays in order to understand how the plays might be staged and actors interpret roles. In addition to reading between eight and 12 plays and a dozen or so sonnets, students will take mid-term and final objective and essay examinations, report on the interpretation by a major critic (Johnson, Coleridge, Hazlitt, Bradley, Harrison, and so on), and write one short and one extended (possibly research) essay.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2235 Literature of Horror *(3L)(3CR) [E]* A study of the development and traditions, and conventions of horror and the supernatural in English and American literature. Readings will consist mostly of prose fiction, though there will be a few assigned readings of non-fiction.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2270 Modern Women Writers *(3L)(3CR)* An introductory level course, which will focus on women writers of the late 19th century and of the 20th century. Works by earlier writers demonstrate the traditional roles of women in society as well as questions about and challenges to those roles, while works written since the middle of the 20th century image women in a changing society. These works are the background to contemporary literature which presents positive and powerful images of women as recent writers revise traditional roles and envision new realities for women and for society.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2310 American Literature I (HU) *(3L)(3CR)* A survey of major American writers and their significant contributions from the Colonial Era to the Civil War.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2320 American Literature II (HU) *(3L)(3CR)* A continuation of ENGL 2310: American writers from the Civil War to the mid-20th Century.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2350 African American Literature *(3L)(3CR)* A chronological and thematic survey of African American writers and their works, from the earliest slave narratives to contemporary writings. This course will explore one specific sector of the diversity of American literature.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2475 Independent Study *(1-3L)(*1-3CR) (Max. 6)* *Individual appointments with instructor. Books and periodicals studied independently by student in consultation with instructor.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENGL 2495 Workshop: (Subtitle) *(1-4LB)(.5-2CR) (Max. 4)* Offered in response to needs and interests of students and members of the community. The topic varies but focuses on reading, writing and analyzing contemporary literature. Guest scholars and writers give lectures, readings, and workshops about different genres including poetry, fiction, and nonfiction. A student may repeat this course twice under different subtitles to a maximum of four credit hours.
Prerequisites: ENGL 1010. ENGL 1020 recommended.

ENR 1200 Environment (SCI) *(3L, 3LB)(4CR)* This course fulfills a lab science requirement for both science and non-science majors by introducing key concepts in the life sciences through analysis of environmental and natural resource issues. It is appropriate for all students seeking a deeper understanding of environmental challenges. This course is intended to cultivate informed citizens capable of understanding both the scientific basis of environmental challenges as well as an appreciation for the importance of the non-scientific dimensions of those challenges. This course uses complex, real-world environmental challenges to explore fundamental scientific principles such as hypothesis testing, energy flow, nutrient cycling, ecosystem structure and function, population ecology, community ecology, and the role of humans in systems.

ENR 1330 - Water, Dirt, and Earth's Environment *(3L, 3LB)(4CR)* Introductory environmental geology course focusing on water and soil both as hazards and as life-sustaining resources; exploring surface processes and climate change over geological and human timescales. Case studies illustrate the environmental tradeoffs of resource use.
Cross-listed: (Cross-listed with GEOL 1330)

ENR 2000 Environment and Society *(3L)(3CR)* This course explores environmental and social interactions-that is, how we relate to non-human nature and how we represent these relationships. During the semester you will evaluate texts and other media from a variety of fields. We will also address some of the core issues impacting the relationship between the environment and society.

ENR 2110 The Greater Yellowstone *(1L, 4LB)(3CR)* This interdisciplinary course explores the intersection of environmental science and the humanities, providing a comprehensive understanding of human-environment interactions and a unique student learning experience. Students will gain 6 credits upon successful completion of both courses, which must be taken concurrently. The course integrates lectures, fieldwork, and lab-based learning, focusing on scenic quality assessments, plant and bird identification, citizen science tools, and contemporary environmental challenges. Emphasis is placed on data collection, analysis, scientific reporting and oral presentations, fostering critical thinking, problem-solving, and personal responsibility in environmental stewardship.
Concurrently: HUMN 1030

ENR 2450 - Principles of Fish and Wildlife Management *(3L)(3CR) [E]* Emphasizes principles of habitat and population biology and management, human dimensions of wildlife management, as well as law and policy.
Prerequisites: BIOL 1010
Cross-listed: ZOO 2450

ENR 2465 Research Problems in Environmental Sciences *(1-4L)(1-4CR) (Max 4)* This is an independent research study course. A comprehensive research study is required. Upon completing the project, the student should present a paper and an oral seminar to a committee selected by the project instructor. The problem and amount of credit received must have the approval of the instructor.

ENR 2480 Cooperative Work Experience *(1-8L)(1-8CR)* This course provides the opportunity to gain life science and/or wildlife management concepts from a vocational or employment experience within the student's area of specialization. A minimum of 80 hours of on-the-job training represents one semester credit hour. The instructor and the employer will supervise students.
Prerequisites:
Preapproval/consent of instructor. Must be Life Science, Environmental Science, or Wildlife Management Major. Student must have at least a 2.0 GPA.

ENTK 1010 Elements of Surveying *(2L, 2LB)(3CR)* The principles of land surveying include distance measurement, elevations and angles. This course includes fundamentals of trigonometry, the necessary review of algebraic principles, and a thorough introduction to the surveying instruments and their use. Lecture material is accompanied by field measurements providing adequate practical experience. Following the course, students should be able to assist with a survey crew or lay out a simple construction site. An introduction to the U.S. public land system and the principles of the GPS system are included.

ENTK 1021 Descriptive Geometry *(2L, 2LB) (3CR)* Emphasis is on the graphic solutions to engineering and design problems. Topics will include: visibility, notation, auxiliary views, true lengths and angles, bearing, grade, intersecting lines, lines on planes, point views, normal views piercing points, intersection of planes, contour mapping, outcrop, cut and fill, revolution of lines, vectors and perspective.
Prerequisites: ENTK 1500, or permission of the instructor.

ENTK 1060 Excel Technical Applications *(3L) (3CR)* This course will focus on the technical application of Microsoft Excel and its use in an engineering/drafting office environment. Students will learn productivity tools in Excel and explore how to integrate Excel with computer aided drafting software to increase productivity.

ENTK 1500 Engineering Graphics *(2L.4LB)(4CR)* An introductory course in industrial communications through technical drawing and computer-aided drafting. Topics include sketching, lettering, plan geometry, Multiview, and axonometric projections dimensioning using traditional drafting instruments and computer-aided drafting equipment. All

ENTK 1710 Architectural Drafting I *(2L, 4LB)(4CR) [E]* Designing homes with emphasis on today's residential designs and construction methods. Develop documents for construction purposes using sketching and computer-aided design techniques. Designs will follow local, state and national code specification.
Prerequisites: ENTK 1500, or permission of the instructor.

ENTK 1720 Architectural Drafting II *(2L, 4LB)(4CR)* Develop documents for architectural presentations and graphics using sketching, various CAD techniques, and building information modeling.
Prerequisites: ENTK 1500 and ENTK 1710, or permission of the instructor.

ENTK 2010 CAD 3D Modeling and Mechanical Design I *(2L, 4LB)(4CR)* An introductory course in 3-D solid modeling. The student will learn basic part and assembly modeling techniques with an emphasis on design intent. Standard 3 view part prints including section, detail and exploded views will be created.
Prerequisites: ENTK 1500, or permission of the instructor.

ENTK 2020 CAD 3D Modeling and Mechanical Design II *(2L, 4LB)(4CR)* A continuation of the instruction received in ENTK 2010 , this is an intermediate mechanical design course focusing on assembly modeling using both top-down and bottom-up techniques. Application of design intent on part and assembly models instructs the student to predict how design changes will impact the model. In addition, students realize the importance of file management tools in assemblies. Fall
Prerequisites: ENTK 2010, or permission of the instructor.

ENTK 2030 Cad 3D Modeling and Mechanical Design III *(2L,4LB)(4CR)* This is an advanced mechanical design course focusing on design and marketing tools used with solid modeling of parts and assemblies. The students learn to integrate weldments, fasteners, sheet metal parts, and web-based design tools into assemblies. These tools aid the designer during the product development phase of a project. Prerequisites: ENTK 2020. Spring
Prerequisites: ENTK 2020.

ENTK 2550 Civil Drafting I *(2L, 4LB)(4CR)* This course introduces principles and techniques of civil drafting using AutoDesk's Land Development Desktop to create engineering maps. This course includes an overview of mapping, surveying, and earthwork. Spring
Prerequisites: ENTK 1500, or permission of the instructor.

ENTK 2600 Construction Documents *(2L,4LB)(4CR)* Design, planning, and construction documents of existing and new commercial buildings. Topics include construction methods and materials, drawing conventions, the AIA drawing standards, the National CAD Standards, the Uniform Drawing System, and the International Building Code. Fall
Prerequisites: ENTK 1500, or permission of the instructor.

ENTK 2975 Independent Study in Drafting *(2-6LB)(1-3CR) (Max. 3)* Drafting majors who have substantial background in drafting may be permitted to contract with the instructor for special advanced problems in drafting to be pursued on an independent study basis.
Prerequisites: Permission of instructor.

ENTK 2976 Independent Study in Computer-Aided Drafting *(2-6LB)(1-3CR)* Students who have substantial background in drafting may be permitted to contract with the instructor for special advanced problems in computer aided drafting to be pursued on an independent study basis.
Prerequisites: Permission of the instructor.

ENTK 2980 Cooperative Work Experience (Drafting) *(1-8L)(1-8CR) (Max. 8)* A minimum of 80 hours of on-the-job training per credit hour with college supervision. Training must be in the area of drafting or a closely related field such as surveying.
Prerequisites: Permission of the instructor.

ENTO 1001 Insect Biology *(3L, 3LB)(4CR)* This course provides students with an introduction to insects and related arthropods. Aspects of insect biology, ecology, behavior and life history will be covered, with emphasis on their effect on humans. The lab will cover insect anatomy, taxonomy and diversity, with an insect

collection required of all students.
Prerequisites: BIOL 1000 or equivalent.

ENVT 1600 Industrial Safety

(4L)(4CR) This course is an introduction to safety issues that affect personnel in the electric power industry. It will review general safety issues and specific Occupational Safety and Health (OSHA) regulations for General Industry. Topics to be covered include: Introduction to OSHA, exit routes, emergency action plans, fire protection plans and fire protection, electrical, personal protective equipment, walking/working surfaces and fall protection, hazard communication, powered industrial trucks, bloodborne pathogens, working in extreme weather environments, and electric power generation, transmission, and distribution. All subjects will emphasize hazard awareness. An OSHA Ten-Hour general industry card will be awarded to all students successfully completing the mandatory OSHA requirements contained in this curriculum. Each student will be required to compose a three to five page essay on personal safety.

ENVT 2981 Cooperative Work Experience

(1-8L)(1-8CR) (Max. 16) (Environmental Science students) Supervised work and project experience for the purpose of providing an understanding of a specific topic area related to environmental science. Supervision is provided by both the instructional staff of the college and the cooperating agencies. Enrollment limited to majors in water quality technology or environmental science. See "Unit of Credit." Prerequisites: Permission of the instructor.

ES 1000 - Orientation to Engineering Study

(1L)(1CR) [E] Orientation course to provide students with exposure to all forms of engineering.

ES 1010 Engineering Design I

(2L)(2CR) This course is for students who are interested in engineering. The major focus of the course is to expose students to the design process, data collection, data analysis, and design modifications based on the data analysis. Teamwork will also be emphasized, including cross discipline teamwork, which is critical for design success. Finally, technical communication of the design process and modifications made during the process will be emphasized to better convey what the design process entailed and what the final product accomplished or did not accomplish

ES 1040 A Gamer's Road to Engineering

(2L,2LB)(3CR) Electronic entertainment has become a ubiquitous form of pastime for citizens around the world. It can be experienced on a singular level or as part of a collaborative or competitive effort. The barrier to entry is low, and it can also serve as a gateway towards the higher-level function of collaboration and problem-solving. The hands-on application will include dedicated immersion periods in PC and/or console content. Course presentation will be a combination of lecture/lab approaches to promote collaborative and cooperative learning.

ES 1060 Intro to Engineering Problem Solving

(3L)(3CR) [E] * One problem class each week. An introduction to engineering documentation and reports, computing tools for data presentation and graphics, equation solving, and manipulation of tabular data.
Concurrently: MATH 2200.

ES 1100 Introduction to Rocketry

(1L, 2LB)(2CR) This introductory course in rocketry will provide an overview of various rocket propulsion concepts such as solid, hybrid, liquid, nuclear and antimatter. It will focus on composite solid rocket motors and cover their design, ballistic analysis, structural analysis, and thermal analysis. The course will discuss the design, analysis and constructor of rocket bodies including structural analysis, flight stability and recovery systems.

ES 1101 FYS: Introduction to Engineering Study

(3L)(3CR) This is a first-year seminar course designed to help all first-year students make the transition from High School to College. In this seminar, you will build relationships with faculty and classmates in a community of exploration and discussion, as we investigate the world of ideas, problem-solving, and engineering. Students will be introduced to instructors who are passionate about their field of study, and equally committee to supporting student success. Fall

ES 2110 Statics *(3L, *)(3CR) [E]* *One problem class each week. Analysis of force systems in equilibrium while at rest. Includes forces as vectors acting at a point and on structures, distributed forces, and friction. Centroid and moment of inertia of areas and solids.
Prerequisites: MATH 2205 or concurrent enrollment. Students should be enrolled concurrently in PHYS 1310 and ES 1060 is recommended.
Concurrently: PHYS 1310 and ES 1060

ES 2120 Dynamics *(3, *)(3CR) [E]* *One problem class each week. The study of particle and body motion. Includes the study of translation and rotation and the related concepts of work, energy, impulse, and momentum.
Prerequisites: ES 2110 and MATH 2205, PHYS 1310, or concurrent enrollment.

ES 2210 - Electric Circuit Analysis *(3L, *, 2LB) (4CR) [E]* *One problem class each week. A basic course in electrical engineering circuit analysis for all engineering majors. Emphasis is placed on basic circuit theory, circuit modeling, analytical methods, network theorems, and first order circuits.
Prerequisites: MATH 2205.
Concurrently: ES 2120.

ES 2310 Thermodynamics *(3L)(3CR) [E]* A first course in classical thermodynamics governing processes related to heat work and equilibrium of gaseous liquid, and solid systems.
Prerequisites: MATH 2205 and PHYS 1310, or permission of the instructor.

ES 2330 Fluid Dynamics *(3L, *)(3CR) [E]* *One problem class each week. Characteristics and behavior of fluids. Applications of Bernoulli and Euler equations of equilibrium. Study of surface tension, vapor pressure, viscosity, and shear stress of fluids. Analysis of laminar and turbulent flow in pipes.
Prerequisites: ES 2120 and MATH 2205, or permission of instructor.

ES 2410 Mechanics of Materials I *(3L, *)(3CR) [E]* * One problem class each week. The mechanics of deformable bodies. Topics include stress and strain of structures and machine components. The course will include an introduction to the design process.
Prerequisites: ES 2110 and MATH 2205.

EXTR 1500 Geology of Extractive Resources *(3L)(3CR)* The study of the basic concepts associated with understanding the geology of the occurrence of oil, gas, oil shale, coal, coal bed methane, uranium, trona, bentonite, industrial minerals, and precious minerals in Wyoming.

EXTR 2520 Introduction to Well Logging *(3L)(3CR)* An introduction to the basics of modern electric well logs. Topics will include a quick overview of how a well is drilled and a brief history of logging tools. The main focus will be on modern electric log types and their interpretation and application, including resistivity and porosity logs. Specialty logs including dipmeters and borehole televiewers will be examined.

EXTR 2530 Oil and Gas Production *(3L, 1LB)(3.5CR)* An introduction to the basics of oil and gas production. Topics will include a quick overview of the history of production, oil and gas reservoirs, drilling, testing, and completing wells. The main focus will be on oil and gas properties, production methods, enhanced recovery methods, field processing, and well maintenance.
Prerequisites: Permission of the instructor.

EXTR 2540 Petroleum Refining *(3L)(3CR)* This course will cover the process, technology and operations that are necessary for the refinement of petroleum products.
Prerequisites: EXTR 2530.

EXTR 2555 - Advanced Geologic Computing Methods *(1.5 3LB)(3CR)* This course is intended as a follow-up to EXTR 2550 Geologic Computing Methods. It is an advanced level instructional course on how to use the geologic computing software package, Petra. The course will feature advanced methods of geologic mapping, cross-section creation, well log interpretation, and the many special functions of the software. Data manipulation and integration techniques will be addressed.
Prerequisites: permission of the instructor.

FCSC 1100 Introduction to Food Science *(3L, 3LB)(4CR)* This course will utilize food and food preparation as a model to examine basic scientific principles core to the

life and physical sciences. Students will learn about food's nutritive value and basic biologic, chemical and physical concepts in food science. Basic skills in food preparation and food processing will be introduced. Fundamental concepts in consumer science such as food choice and selection, unit pricing and meal planning are also explored.

FCSC 1141 Principles of Nutrition (SCI Elective)

(3L)(3CR) [E] This course is designed to give students a general understanding of nutrition concepts. The course content emphasizes key nutrients and the human body's need for and utilization of those nutrients. Students will be informed of the importance of individualized nutrition plans, and will be exposed to some of the latest research in nutrition. Also addressed are nutritionally relevant topics such as eating disorders, nutritional supplements, dieting and food safety. Recommended for nutrition majors, physical education and early childhood education majors and other interested non-majors.

FCSC 1410 Scientific Study of Food

(3L, 3LB)(4CR) Comprehensive introduction to the study of food. Food science concepts relevant to composition, physical, chemical and biological properties are applied through laboratory experiences.
Prerequisites: FCSC 1141.

FCSC 2122 Child Development Lab

(2LB)(1CR) This course will serve as a bridge between theory and application through experience in the observation of child growth and development from birth to12 years of age.
Prerequisites: PSYC 2300, or concurrent enrollment.

FCSC 2141 Nutrition Controversies

(2L)(2CR) This course will explore current nutrition-related controversies, and aims to implement the scientific method to develop critical thinking skills about controversial topics in the fields of nutrition and food. This course is recommended for nutrition majors, nursing and health-related majors, physical education, early childhood education majors, and any other interested parties.

FDSC 2040 Principles of Meat Animal Evaluation

(2L, 2LB)(3CR) [E] Live animal and carcass evaluation of beef, sheep, and swine. Slaughter, meat inspection and anatomy are discussed.
Prerequisites: ANSC 1010 or instructor permission.

FDSC 2100 Principles of Meat Science

(2L, 2LB)(3CR) [E] Muscle growth, structure and metabolism, pre-harvest animal care, fabrication of carcasses into cuts and associated processing techniques; conversion of muscle into meat; fresh meat properties and quality; chemical properties of meat; meat processing; meat microbiology and safety.

FIN 1000 Personal Finance

(3L)(3CR) An introductory course in managing personal finances. Topics covered include financial planning, managing taxes, managing cash, use of credit, risk management, and investments. In order to understand these topics an emphasis is put on learning about time value of money concepts and inflation. Considerable emphasis is also placed on insurance and the basics of investing.

FIRE 1500 Introduction to Fire Science

(3L)(3CR) A broad overview of fire service covering historical and modern fire protection services including department organization, equipment, extinguishing agents, tactics, and detection systems.

FIRE 1510 Fire Fighting Strategy and Tactics I

(3L)(3CR) An introductory course that covers a range of management principles and practices to help students develop effective decision-making skills at the fire scene.

FIRE 1520 Fire Fighting Strategy and Tactics II

(3L)(3CR) An advanced course emphasizing skill development for effective decision making in fire and related emergency situations. Includes case studies and simulations.
Prerequisites: FIRE 1510, or fire service experience.

FIRE 1550 Causes and Investigation

(3L)(3CR) An in-depth study of the causes and investigation of fires of all types and descriptions from the fire science point of view.

FIRE 1670 Basic Emergency Care/First Responder *(3L)(3CR)* Training in the fundamentals of emergency care. The course follows the state of Wyoming Office of Emergency Medical Services outline for basic emergency care. Excellent for students who are planning to enter the fire service or emergency medical services. **Prerequisites**: Fire science or criminal justice major, or permission of the instructor.

FIRE 1700 Fundamentals of Fire Prevention *(3L)(3CR)* The history and philosophy of fire prevention and administrative functions. Evaluation of prevention programs and research provide insight into the fire problem in modern societies.

FIRE 1760 Building Construction *(3L)(3CR)* A practical approach to assessing hazards in various types of buildings. Construction types and classes are examined with firefighter safety and occupant viability as the foremost considerations.

FIRE 1810 Introduction to Wildland Fire Fighting *(3L)(3CR)* Designed to expose the student to all of the classroom material required to be qualified as a wild-land firefighter Type Two (Basic) including introductory fire behavior, methods, tactics and safety.

FIRE 1818 Wildland Leadership *(3L)(3CR)* This course is designed to provide intermediate level instruction on wild-land firefighting tactics, safety, and leadership.

FIRE 1830 Intermediate Wildland Fire Behavior *(3L)(3CR)* Designed to expose the students to a more in-depth look at wild-land fire behavior. Incorporates the relations between fuels, weather, and topography. Also, a more in-depth look into firefighter safety is taken.
Prerequisites: FIRE 1810.

FIRE 1975 Independent Study *(1-3CR)* An opportunity for students to develop projects in their particular area of interest within the fire science discipline. Course is self-paced with individualized instruction.

FIRE 2515 Advanced Firefighting *(3L)(3CR)* This course prepares the student with the required skills needed in the fire service. This course assists students in developing an understanding of the physical and practical skills required to become a career firefighter. **Prerequisites**: Sophomore level in fire science program.

FIRE 2525 - Rescue Practices for the Fire Service *(3L)(3CR)* Designed to offer the student first-hand experience in the areas of high angle rescue, water rescue, and vehicle rescue/extrication.

FIRE 2530 Hazardous Materials *(3L)(3CR)* This course involves the application of NFPA 472 and OSHA's HAZWOPER Standard (29 CFR 1910.120) towards student involvement in hazardous materials emergency response. In order to pass this course each student must pass both state tests (Awareness and Operations). However, passing both state certified exams does not guarantee a passing grade in the class.
Prerequisites: General understanding of emergency response.

FIRE 2560 Apparatus and Procedures *(3L)(3CR)* Designed to acquaint the student with the evolution of fire apparatus and to provide an understanding of the uses for different pieces of fire-fighting vehicles.

FIRE 2570 Managing Fire Service *(3L)(3CR)* Designed for the pre-service student as well as the fire officer in management or preparing for a managerial position. The course includes budget forecasting, facility and equipment planning, personnel activities, and fire protection productivity.

FIRE 2960 Firefighter Development *(3L)(3CR)* To prepare the student for fire department entry-level testing through various exercises and community service projects.

FIRE 2970 Fire Service Field Internship *(3CR)* To prepare the student for fire department entry-level testing through various exercises and community service projects.

FREN 1010 First Year French I (HU) *(4L)(4CR) [E]* This course is intended for students who have never studied French at the college level. Students will learn the fundamentals of the French language through listening, speaking, reading, and writing

activities at the ACTFL (American Council on the Teaching of Foreign Languages) Novice High Level. The course will also introduce students to the culture of various French-speaking countries. Language laboratory times are required as needed. Students who want to take for credit the next course in the sequence must complete this course with grade of a 'C' or better. Fall

FREN 1020 First Year French II (HU) *(4L)(4CR) [E]* This course is a continuation of the objectives in FREN 1010. Students will become more proficient in listening, speaking, reading, and writing French and will further their grammatical study of the French language at the ACTFL (American Council on the Teaching of Foreign Languages) Intermediate Low Level. The course will continue to introduce students to the culture of various French-speaking countries. Language laboratory times are required as needed. Spring
Prerequisites: A grade of "C" or better in FREN 1010, CLEP test result, or instructor's permission.

FREN 2030 Second Year French I *(4L)(4CR) [E]* This course focuses on the increased development of listening, speaking, reading, and writing skills in French. Students review and expand upon grammar points which facilitate successful communication at the ACTFL (American Council on the Teaching of Foreign Languages) Intermediate-Mid Level. Language laboratory times are required as needed.
Prerequisites: A grade of "C" or better in FREN 1020, CLEP test result, equivalent of 5-6 years of middle/junior high and high school French with a cumulative "B" average or better in those classes, or instructor's permission.

FREN 2040 Second Year French II *(4L)(4CR) [E]* This course further emphasizes the development of all four communicative aspects of the French language through composition, conversation, oral presentations, and grammar study. Language laboratory times are required as needed.
Prerequisites: A grade of "C" or better in FREN 2030, CLEP test result, or instructor's permission.

FREN 2475 Independent Study *(1-4L)(1-4CR) (Max. 4)* Students meet with the instructor to discuss independently assigned reading and reports from sources of special interest to the student(s) and pertaining to francophone culture and/or current events which are selected in consultation with the French instructor or record. All coursework will be done in French. Some oral/aural work will be required and grammatical topics may be revisited and expanded upon. Students much pass with a "C" or better.
Prerequisites: FREN 2040 or permission of instructor.

FREN 2495 Workshop: Topic *(.5-4L)(.5-4CR) (Max 12)* This class provides a specialized course of study in French to meet particular interests of students and community members. Various topics focus on the development of practical French speaking skills and/or cultural awareness. This course may be repeated for a total of 12 credits under different topics. Student must pass with a "C" or better.
Prerequisites: Permission of instructor

GEOG 1000 World Regional Geography (SSC) *(3L)(3CR) [E]* An overview of the world's major physical regions: the physical features, climates, and natural resources of each region, and how the people living in each region have adapted to, and are affected by, their physical environment.

GEOG 1010 Introduction to Physical Geography (SCI) *(3L, 2LB)(4CR) [E]* An introductory course that draws on many scientific fields to examine interactions between humans and their physical environment. Geology, meteorology, climatology, pedology, biology, and hydrology supply the background material, but the key word is interaction: how and why the weather affects our lives, food supply and soil formation, and where and how we can live within the limits imposed by the various environments of the earth. Because we live on the surface of the earth, the course will examine the major processes involved in shaping and landscape.

GEOG 1040 Snow and Ice Field Class *(3L, 2LB)(4CR)* Of all of the environmental factors which shape the physical world in which we live, the snow and the ice (cryosphere) component is probably the least understood and appreciated by the layman and the scientist alike. At the same time, our existence is

tremendously impacted in both positive and negative ways by these factors. Students will be required to attend field components including two local weekend excursions and a week-long field course in a location to be determined. Some field work may be physically strenuous; however, participation in these activities will be optional. Other approved exercises may be substituted if necessary. **Prerequisites:** Permission of the instructor.

GEOG 1050 Introduction to Environmental and Natural Resources

(3L)(3CR) Addresses the impact from natural and human interactions with the environment. Will discuss regional to global scales on issues such as: hazardous earth processes, human interaction with the environment, cultural and ethnic responses to the environment, minerals and energy extraction and use, land use and decision-making. The class will view both sides of environmental issues and approaches to environmental management.

GEOL 1010 DEEP Impact

(1-3L)(1-3CR) DEEP Impact is a mentoring course for geoscience students regardless of major who participate in the Diverse Earth Education Project (DEEP Impact). The course is designed to assist students with their career and educational goals while students engage with undergraduate research projects. Student should take the course multiple times to earn up to 3 credits total. All Semesters

GEOL 1015 Geology in the Field

(1L, 2LB) (2CR) This course is designed to be lecture in the field about the spectacular geology of Wyoming. A great variety of Wyoming's minerals, rocks, fossils, and scenic geology will be explored during field trips.

GEOL 1020 Geology of Wyoming

(1L)(1CR) Topics in the geology of Wyoming; lectures and field trips which illustrate a major facet of Wyoming's natural geological laboratory. Topics have included volcanoes, glaciers, Wyoming gem stones and precious metals, plate tectonics, and the oil and gas business.

GEOL 1021 Geology of Wyoming Field Trip

(1L)(1CR) Lecture in the field to observe first-hand the unique geological features of Wyoming. **Concurrently:** Optional field trip to be taken concurrently with GEOL 1020.

GEOL 1040 Gemstones and Their Geologic Origins

(1L)(1CR) This course is designed to acquaint the student with gemstone identification, faceting and the geology which produces these rare specimens.

GEOL 1045 Lapidary

(2LB)(1CR) This is a general interest science course teaching skills needed to cut and polish rocks and gemstones. Students will learn to use various machines to cut, grind, polish, drill, facet, and make thin sections for easier hand sample identification, creating thin sections for microscopes, and improving the aesthetic value of various Wyoming gemstones and rocks. **Concurrently:** GEOL 1046 Field Trips to Collect Gemstones of Wyoming

GEOL 1046 Field Trips to Collect Gemstones

(2LB)(1CR) This lab course consisting of 4 all-day field trips will complement GEOL 1040 (Gemstones) and GEOL 1045 (Lapidary) by letting the students collect their own samples of gemstones and various rocks throughout Wyoming. Jade, opals, sapphires, aquamarines, beryl, tourmaline, iolite, lepidolite, labradorite, and agates are some of the common samples to be collected. **Concurrently:** Best if taken concurrently with either GEOL 1045 (Lapidary) or GEOL 1040 (Gemstones of Wyoming)

GEOL 1070 - The Earth: Its Physical Environment (SCI)

(3L,2LB)(4CR) [E] Covers selected topics from geology, astronomy, and meteorology. The course illustrates fundamental concepts, processes, products, and the interrelationships among them, and emphasizes the nature of science and its relationship between selected topics and society. All

GEOL 1100 Physical Geology (SCI)

(3L, 2LB)(4CR) [E] A lecture and laboratory survey of the composition and geologic features of the earth and the processes which have formed them.

GEOL 1200 Historical Geology *(3L, 2LB)(4CR) [E]* A lecture and laboratory survey of the physical and biological history of the earth as interpreted from the sequence of rocks and fossil remains. Field trips will be included in the spring semester.
Prerequisites: GEOL 1100 recommended.

GEOL 1330 Water, Dirt, and Earth's Environment *(3L, 3LB)(4CR)* Introductory environmental geology course focusing on water and soil both as hazards and as life-sustaining resources; exploring surface processes and climate change over geological and human timescales. Case studies illustrate the environmental tradeoffs of resource use.
Cross-listed: (Cross-listed with ENR 1330)

GEOL 2000 Geochemical Cycles and the Earth System *(4L)(4CR)* Geology applied to the complete Earth system including Lithosphere, Hydrosphere, Atmosphere and Biosphere, emphasizing rock associations and geochemical cycles on a global scale. All
Prerequisites: GEOL 1100.

GEOL 2005 Introduction to Geophysics *(4L)(4CR)* Introduction to the processes and properties of the physical earth. Topics to be covered include: gravity and magnetics, heat flow, seismo-tectonics, earthquakes, global earth structure, electro-magnetism, and seismology. All
Prerequisites: GEOL 1100 or GEOL/ ENR 1330 or Instructor permission.

GEOL 2010 Mineralogy *(2L, 3LB)(3CR) [E]* An in-depth introduction to the mineralogy of rock-forming minerals and minerals of economic interest. Lectures and labs will cover the chemical, physical and optical properties of minerals. The class will systematically cover minerals and mineral associations. Great emphasis will be placed on hand sample and microscopic identification of rockforming minerals. Generally offered in the spring semester.
Prerequisites: GEOL 1100 Physical Geology or permission from instructor.
Concurrently: Concurrent enrollment in GEOL 2020 Introduction to Petrology is required.

GEOL 2020 Introduction to Petrology *(2L) (2CR)* Introduces the study of igneous, sedimentary, and metamorphic rocks in hand specimens and thin sections. Covers textural and mineralogic classification of rocks and the tectonic environments in which they occur. All
Prerequisites: GEOL 1100 or instructor permission.

GEOL 2030 Introduction to Hydrology *(2L, 2LB)(3CR)* Introduction to Hydrology covers the physical and chemical properties of water on Earth, processes of flow at the surface and in the subsurface, as well as fresh water as a finite global resource.
Prerequisites: GEOL 1100 recommended, or permission of the instructor.

GEOL 2050 Principles of Paleontology *(3L)(3CR) [E]* A systematic look at the evolution of life forms on Earth from the earliest traces of organic material in Archaen rocks billions of years ago to the great diversity of life we see today. All

GEOL 2070 Oceanography *(3L, 2LB)(4CR)* Deals with the ocean as a major environment of the earth. Includes the physical make-up of the ocean and the ocean as a climate controller and a resource for humans. Future pollution factors will also be discussed.

GEOL 2080 General Field Geology *(3L, 2LB)(4CR) [E]* General Field Geology teaches students basic concepts of geology, field mapping, and sampling technique. Emphasizes recognition, recording, and interpretation of geologic and paleontologic features in the field.
Prerequisites: GEOL 1100 and at least two other geology classes.

GEOL 2100 Stratigraphy and Sedimentation *(3L, 3LB)(4CR) [E]* A basic course in stratigraphy and sedimentation which stresses depositional, environmental, and age relationships of sedimentary rock.
Prerequisites: GEOL 1100, or permission of the instructor.

GEOL 2150 Geomorphology *(4L)(4CR)* Geomorphology is the study of the forces and processes that shape Earth's surface, and the examination and classification of the resulting landforms. This course covers the basic concepts and terminology of fluvial (stream),

glacial, arid (desert), coastal, groundwater, and mass wasting (landslide) environments. Through the use of maps, aerial and satellite imagery, and field and laboratory work, students gain understanding of the complex interaction between the deep earth, the surface environment, and the external forces of weather, climate, and incoming solar energy.

GEOL 2320 Petroleum Geology *(3L,2LB)(4CR)* The origin and properties of petroleum reservoirs with methods of exploring for structural and stratigraphic traps by subsurface and surface geologic techniques. Mode of petroleum genesis, preferential, habitat and migration, and accumulation will be discussed in depth. All
Prerequisites: GEOL 1100

GEOL 2465 Research Problems in Geology *(1-3L)(1-3CR) (Max. 3)* A comprehensive research study in geology is required, the topic must be selected in consultation with the instructor. Upon completing the project, the student will present a written and an oral report to the instructor.

GERM 0900 - German for Travelers *(1L)(1CR)* A course of simple German to help the traveler make plans, obtain tickets, order meals, and ask for and understand general information as needed for travel in a German-speaking country.

GERM 1010 First Year German I (HU) *(4L)(4CR) [E]* This course is intended for students who have never studied German at the college level. Students will learn the fundamentals of the German language through listening, speaking, reading and writing activities of the ACTFL (American Council on the Teaching of Foreign Languages) Novice-High Level. This course will also introduce student to the culture of various German-speaking countries. Language laboratory times are required as needed. Students who want to take for credit the next course in the sequence must complete this course with grade of a 'C' or better.
Prerequisites: None; however, the course is strongly recommended for students who have completed the equivalent of 0-5 semesters of high school German.

GERM 1020 - First Year German II (HU) *(4L)(4CR) [E]* This course is a continuation of the objectives in GERM 1010. Students will become more proficient in listening, speaking, reading, and writing German and will further their grammatical study of the German language at the ACTFL (American Council on the Teaching of Foreign Languages) Intermediate-Low Level. The course will continue to introduce students to the culture of various German-speaking countries. Language laboratory times are required as needed.
Prerequisites: A grade of "C" or better in GERM 1010, CLEP test result, equivalent of 6-8 semesters of high school German with a cumulative "B" average or better in those classes, or instructor's permission.

GERM 2030 Second Year German I *(4L)(4CR) [E]* This course focuses on increased development of listening, speaking, reading, and writing skills in German. Students review and expand upon grammar points which facilitate successful communication at the ACTFL (American Council on the Teaching of Foreign Languages) Intermediate-Mid Level. Language laboratory times are required as needed.
Prerequisites: A grade of "C" or better in GERM 1020, CLEP test result, equivalent of 5-6 years of middle/junior high and high school German with a cumulative "B" average or better in those classes, or instructor's permission.

GERM 2040 Second Year German II *(4L)(4CR) [E]* This course further emphasizes the development of all four communicative aspects of the German language through composition, conversation, oral presentations, and grammar study. Language laboratory times are required as needed.
Prerequisites: A grade of "C" or better in GERM 2030, CLEP test result, or instructor's permission.

GERM 2420 Aktives Deutsch: Travel *(2L)(2CR)* This travel course will focus on the unique culture found in the German-speaking countries. It will help students to more fully appreciate that culture while living in the midst of it as they attend full-immersion German language lessons. Students will be guided to negotiate the processes of ordering and paying for food, using public transportation, shopping and making purchases, and converting currency in real-life, hands-on situations. Also included are instructor-led tours and history lessons, which are given mostly in German. In

response to the interests of students, various topics will focus on specific cultural aspects/sites and on cultural awareness. This course is required for all students participating in short-term study abroad trips to Germany sponsored by Casper College.
Prerequisites: Successful completion of GERM 1010 with a grade of C or better, or instructor's permission (based upon demonstration of equivalent German language skills). Students must be 18 years old by the trip's departure date.

GERM 2475 Independent Study, German

(1-4L)(1-4CR) (Max. 4) Students who want to take for credit the next course in the sequence must complete this course with a grade of "C" or better.
Prerequisites: GERM 2030, or permission of the instructor.

GERM 2495 Workshop: (Subtitle)

(.5-3L)(.5-3CR) (Max. 12) Offered in response to needs and interests of students and members of the community. Various topics will focus on development of practical German speaking skills and on cultural awareness. A student may repeat this course under different subtitles for a maximum of 12 credit hours. Students who want to take for credit the next course in the sequence must complete this course with a grade of "C" or better.

GIST 1015 Projects in GIS

(2LB)(1CR) Students will participate and work alongside GIST 2100 students assisting them with their GIS/GPS projects.

GIST 1060 Introduction to Remote Sensing and Drones

(3L)(3CR) This course will give students an introduction to collecting and analyzing remote sensed data. The data will include remotely sensed imagery taken from orbiting satellites, aerial flights, and drone data. Special attention will be given to flying Casper College's drones, learning how to collect their remote sensed imagery and data, and applying the analysis of that data to real-world projects. Fall Semesters
Prerequisites: A working knowledge of a graphical computer user interface such as Windows or the MAC desktop.

GIST 1080 Introduction to GPS and Maps

(3L)(3CR) An introductory course in maps and satellite-based global positioning systems (GPS). The course provides a project-based introduction to geographic information systems (GIS), for individualized investigations into geography, cultural diversity and/or cultural evolution. This course introduces historic navigation techniques, and the cartographic concepts of scale, elevation, and coordinate systems. We examine how GPS work, and were first developed, and perform exercises that introduce the basic skills of using a handheld global positioning device.

GIST 1100 - Introduction to GIS

(4L)(4CR) An introductory course in geographic information systems (GIS) and an accompanying laboratory session. The course will discuss different types of GIS and their capabilities; GIS data collection and input; GIS data types and basic mapping concepts. The laboratory session will introduce students to ArcView 8 software.

GIST 1110 Management and Implementation of GIS

(4L)(4CR) This course addresses strategies for successful GIS management and implementation in an organization-wide context and is organized around three primary issues: implementation planning, data management, and GIS problem solving in the workforce.
Prerequisites: GIST 1100.

GIST 2100 Advanced GIS

(2L, 4LB)(4CR) An advanced GIS course. The students will be split into teams and given a case study from an outside client and solve the case study using GIS. At the end of the semester, the teams will present the solution to the client in a presentation.
Prerequisites: GIST 1100 and GIST 1110, or concurrent enrollment in GIST 1110.

GIST 2150 Map Use and Analysis

(3L)(3CR) Survey of the use of maps to communicate ideas and opinions about places, and the analysis and presentation of mapped data to solve spatial or geographic problems.

GIST 2475 - Independent Study

(1-3L)(1-3CR) An opportunity for students to develop projects in their particular area of interest within the GIS field.
Prerequisites: Permission of instructor

GIST 2480 GIS Cooperative Work Experience *(1-8L)(1-8CR) (Max. 8)* Students are afforded the opportunity to gain practical on-the-job experience in their specialties. The program coordinator and the student's employer will supervise the student. A minimum of 80 hours of on-the-job training represents one semester hour. Students must maintain 12 credit hours with at least a 2.0 GPA during the semester.
Prerequisites: Enrollment in GIS certificate, degree, or minor program; permission of the program director.

GWST 1080 Introduction to Gender and Women's Studies (HU) *(3L)(3CR) [E]*
This course serves as an introduction to the field of Gender and Women's Studies. Students will examine a range of GWST topics, gain knowledge of gender, feminist, and intersectional theories, and learn to apply course concepts and frameworks to analyses of socio-political and representational issues, primarily in U.S. contexts.

GWST 2020 Gender, Women and Food
(3L)(3CR) "Who is cooking what, for whom, under what conditions, and does it matter? Are we what we eat? A daily activity all of us must do and have done since the day we were born, eating plays a role in constructing our identities and the worlds we live in. This course will examine the complex interplay of food and the construction of identities and social structures. Focusing on women and gender within the contexts of race, class, and sexuality, we will explore food practices both historically and domestically and in larger social structures including the global context. We will use historical and social analyses as well as memoir and fiction to explore these issues.

GWST 2021 Gender and Women in Music *(3L)(3CR)*
This course explores women's contribution to the field of Western music from Ancient Greece to modern times.

GWST 2025 Gender and Women in Global Culture *(3L)(3CR)* In this course, we will explore global and cross-cultural perspectives on gender, women, and feminism. We will examine feminist perspectives across a range of national and international issues affecting all people, with an emphasis on the realities women face. We will also analyze the feminist debates surrounding Western concepts of feminism and compare Western concepts to other concepts in different geographic and cultural contexts.

GWST 2310 - History of Gender and Women in America *(3L)(3CR)* Examine women's history, the activities and circumstances specific to women in America, and their contributions, influences, and significance.
Prerequisites: ENGL 1010, (or concurrent enrollment) or permission of the instructor.
Cross-listed: HIST 2310

GWST 2480 Directed Special Projects
(1-3L) (1-3CR) (Max. 3) Research project designed by student in consultation with instructor from the women's studies department, and with approval of the director of women's studies.
Prerequisites: GWST 1080 and permission of the instructor.

HIST 1110 - Western Civilization I (HU)
(3L)(3CR) [E] A general survey of the significant political, social, economic, cultural, and intellectual concepts and institutions of the West, from the Paleolithic origins of humans through the Reformation.

HIST 1120 Western Civilization II (HU)
(3L)(3CR) [E] A general survey of the modern world, from the Reformation to the present. Emphasis is equally divided between national histories and the development of Europe as a whole, including the impact of the West on the entire world.

HIST 1211 United States to 1865 (CNST) *(3L)(3CR) [E]* A survey of the economic, social and political development of the United States from earliest exploration through the Civil War, with some emphasis on the American Constitution and its development as well as the Wyoming Constitution. This course will satisfy the statutory requirement of the U. S. and Wyoming Constitutions for Casper College and the University of Wyoming.

HIST 1221 - United States from 1865 (CNST)
(3L)(3CR) [E] A survey of the economic, social, and political development of the United States from reconstruction to the present. This course will satisfy the statutory requirement of the U.S. and Wyoming Constitution.

HIST 1251 Wyoming History (CNST) *(3L)(3CR) [E]* A survey which encourages an understanding of Wyoming history, how it relates to the history of the West and the rest of America and how it has influenced the present. An important component is to learn about the U.S. and the Wyoming constitutions and how these two documents have influenced Wyoming history.

HIST 2080 Holocaust *(3L)(3CR) [E]* This course will explore the foundations of the Third Reich beginning immediately after World War I and ending in May 1945. Among the issues that will be discussed are the economic, military and social factors that led to the rise of National Socialism, Adolf Hitler and the other members of the NSDAP hierarchy that influenced the development of political and social doctrine in Germany, the legal maneuvering that legitimized genocide, the role of the SS including concentration camp administration and mobile killing operations in the East. The process of deportation, ghettoization and liquidation of the Jews of Europe in the death camps will be a central area of emphasis.

HIST 2115 Twentieth Century Europe *(3L)(3CR)* This course analyzes European history from 1900-1991. Special attention will be paid to the Great War, Russian Revolution, World War II and the Cold War.

HIST 2240 History of Russia Since 1855 *(3L)(3CR)* General survey of modern Russian history from 1855 to present.

HIST 2300 World War II *(3L)(3CR)* The Second World War is, arguably, the most significant military, political and social event of the Twentieth Century. The millions of military and civilian deaths, the destruction of infrastructure and the postwar Allied military governments in Germany and Japan all affected the way that the world was shaped. In this class we will examine the Second World War including the political and social upheaval in Europe following World War One that made possible the rise of National Socialism in Germany and Bolshevism in Russia. The expansionist goals of Imperial Japan and the resulting Pacific war will also be discussed as will the Holocaust and the Nazis' war against the Jews of Europe.

HIST 2310 American Women's History *(3L)(3CR)* Examine women's history, the activities and circumstances specific to women in America, and their contributions, influences, and significance.
Cross-listed: GWST 2310

HIST 2450 History of Ireland *(3L)(3CR)* This course surveys the history of Ireland beginning with the Celtic invasion of the island to 21st century efforts to establish a lasting peace in the North. Major topics include the impact of invasions (Celtic, Viking, and especially English) early modern, and modern Irish History.

HIST 2475 Independent Study *(1-3L)(1-3CR)* An opportunity for students to develop projects in their particular area of interest within the history discipline.

HLED 1006 Personal Health *(3L)(3CR) [E]* Designed to develop the understanding, attitudes, and practices which contribute to better individual and community health.

HLED 2006 Health for Elementary Educators *(1L)(1CR)* This course acquaints elementary education students with methods of teaching and assessing health education standards to elementary students.

HLTK 1000 Principles of Healthcare Calculations *(2L)(2CR)* A review of basic arithmetic, an introduction to the metric and apothecary systems, and computation of medication dosages.

HLTK 1200 Medical Terminology*(3L)(3CR)* An introduction to medical vocabulary and terminology. The use of abbreviations, suffixes, and combining forms are stressed to give the student a working knowledge of medical terms.

HLTK 1300 - Nursing Boot Camp *(1L)(1CR)* Provides students with academic skills and strategies for successful transition into the Casper College Nursing Program. Topics include resources available at Casper College, strategies for studying and test-taking, review of

teaching-learning modalities used in the nursing program, introduction to the Nursing Student handbook, review of the application process, and development of an action plan to support success. Course has online, campus and group activities.
Prerequisites: HMDV 1300 or concurrent enrollment.

HLTK 1500 Introduction to Health Care and Services

(2L)(2CR) Concepts of health care organization, finance, and delivery in the United States. Explores interrelationships among agencies, organizations, and personnel in the delivery of health care. (Fall semester.)

HLTK 1620 - American Heart Association Heart Saver First Aid, CPR and AED

(.33LB)(.33CR) Provides training in adult, child and infant cardiopulmonary resuscitation (CPR), foreign body airway obstruction, and the use of an automated external defibrillator (AED). Also provides training for laypeople in first aid assessments and actions. S/U grading only.

HLTK 1625 American Heart Association BLS for the Provider

(.13L, .2LB)(.33CR) Designed to introduce the student to the cardiopulmonary resuscitation techniques needed by providers for adult, child and infant including use of the automatic external defibrillator (AED). S/U grading only.

HLTK 1660 - Advanced Cardiac Life Support

(.26L, .66LB)(.66CR) This course is designed to introduce the Allied Health Professional to the concepts and techniques of Advanced Cardiac Life Support and includes both lecture and hands on practical application of knowledge and skills necessary to provide Advanced Cardiac Life Support to a patient in need. S/U grading only.
Prerequisites: This course is designed for Allied Health students in their final semester of discipline-specific instruction. Participants must have a current AHA BLS for HCP Provider certification. Students are also required to complete a precourse self-assessment prior to the beginning of class. Those not completing the assessment will not be allowed into the class.

HLTK 1675 - AHA Pediatric Advanced Life Support

(.66L)(.66CR) This course is designed to introduce the Allied Health Professional to the concepts and techniques of Pediatric Advanced Life Support and includes both lecture and hands on practical application of knowledge and skills necessary to provide Pediatric Advanced life Support to a patient in need. S/U grading only.
Prerequisites: This course is designed for Allied Health students in their final semester of discipline-specific instruction. Participants much have a current AHA BLS for HCP Provider certification. Students are also required to complete a precourse self-assessment prior to the beginning of class. Those not completing the assessment will not be allowed into the class.

HLTK 1855 Assistive Technology Practicum

(6LB)(3CR) This course is designed to provide hands-on experience with various areas of assistive technology. Students will participate in general assistive technology (AT) evaluation concepts, exploration of different types of assistive technology equipment and application of AT to various populations.
Prerequisites: HLTK 1625 or equivalent CPR certification.

HLTK 1860 Introduction to Human Disease

(3L)(3CR) This course is designed to provide a general overview of common diagnoses and conditions addressed in healthcare settings. Emphasis will be on considerations of symptoms, ethical and safety considerations as well as organizational and healthcare collaboration.

HLTK 1865 Equine Assisted Therapy Practicum

(6LB)(3CR) This course is designed to provide hands-on experience with various aspects of equine assisted therapy. Students will participate in activities to incorporate concepts of general equine care and handling, utilizing riding and equine management from a therapeutic perspective and addressing mental health and physical disability through equine assisted therapy.

HLTK 1870 - Professionalism in Healthcare

(3L)(3CR) This course is designed to introduce students to the concepts of professional interactions by facilitating a positive work

environment. Emphasis is placed on learning aspects of effective communication, application of the team process, awareness and management of ethical dilemmas, utilizing professional boundaries, rapport building and crisis management.

HLTK 1875 Gerontology Practicum *(6LB)(3CR)* This course is designed to provide a general overview of the effects of aging, and the common diagnoses and conditions seen in geriatric clients. The course practicum will focus on educating the students about the importance of health, wellness, and safety of the geriatric population. Students will participate with community partners to immerse themselves in the needs of an aging population.
Prerequisites: HLTK 1625 or equivalent CPR certification.

HLTK 2400 - Complementary and Alternative Therapies (CAT) and Nursing *(3L)(3CR)* This elective course introduces the nurse or nursing student to the ever-expanding areas that are Complementary and Alternative Therapies (CAT) or Complementary and Alternative Medicine (CAM). The impact of these therapeutic modalities is explored as well as the implications for nursing practice. This course is informative only. You will not learn to be a practitioner of any of these modalities; you will be learning only about said therapies. This course will encompass many therapeutic modalities: music therapy, aroma therapy, massage therapy, acupuncture, acupressure, herbal remedies, and reflexology. Other information covered will include Reiki, therapeutic touch, and guided imagery. Additional topics will be covered as well.

HLTK 2550 Understanding the Economics, Ethics, and Policies Influencing Health Care *(3L)(3CR)* Legal, ethical, economical, and political issues related to health policy that impact the care of patients by health care providers. Rural and urban health care issues will be emphasized. Utilization of professional associations will be included.

HLTK 2560 The Interprofessional Health Care Team *(3L)(3CR)* This course covers leadership and development concepts that apply to the interprofessional health care team. Concepts covered will include team and group development, relationship-centered leadership, and building and sustaining collaborative interprofessional teams. Application of concepts will include: health care informatics, evidence based practices, interprofessional simulation activities, and behaviors that foster a collaborative culture.

HMDV 1025 Introduction to Online Learning *(1L)(1CR)* This fully online course is designed to teach students how to use and navigate through the Moodle4Me course management system, learn the basics of internet use, email communication, file management, college resources, and library use. Students will use various tutorial materials and corresponding hands-on activities to complete requirements.

HMDV 1101 - First-Year Seminar *(3L)(3CR)* A first-year seminar focused on critical thinking and college success strategies. As individuals, and in groups, students examine the personal, social, civic, and economic goals of a college education, with emphasis on cognitive, moral, aesthetic, and identity development. During the class, students do research, they think through complex issues, consult with others, and in the end, present samples of their work to the instructor and classmates,. Each semester, multiple sections

HMDV 1200 Academic and Career Orientation *(2L)(2CR)* This course consists of three primary components: self-assessment, including assessment of the student's interests, aptitudes, and values; job search skills, including learning how and where to look for employment, devising cover letters and a resume, proper completion of employment applications, interview skills, and follow-up techniques; and a series of guest speakers who lecture and answer questions concerning a variety of careers, thereby expanding the student's knowledge about occupations.

HMDV 1300 On Course *(2L)(2CR)* Provides students with academic and personal strategies for a successful transition to the college. Topics include study skill techniques such as reading, note taking, test taking and organizing and rehearsing study materials. Other topics touched on include accepting responsibility,

motivation, self-management, interdependence, and self-awareness. This course will also introduce students to campus resources.

HOSP 1520 Introduction to Hospitality and Tourism Management

(3L)(3CR) Overview of the components of the hospitality and tourism industry from a historical, social, philosophical, and organizational perspective. Includes the study of the industry from regional, state, national and international perspectives for those who want to pursue a career in the industry and for those who want to develop their job skills. Fall

HOSP 1540 Lodging Operations Management

(3L) Examines the basic management functions of planning, budgeting, controlling, staffing, and operating a hotel property. Includes topics such as front office operations, night audit and financial procedures, hospitality management information systems, and legal and human resources practices. Fall

HOSP 1560 Convention Sales and Management

(3L)(3CR) Defines the scope and various segments of the convention market, explains what is required to meet individual needs, and explores methods and techniques which lead to better sales and service. Spring

HOSP 1570 Human Resource Hospitality Management *(3L)(3CR)*

This course presents a systematic approach to human resource management in the hospitality industry. Students will analyze contemporary issues and practices, as well as the trends that transform the way people are managed. (Offered every other fall semester)

HOSP 1970 Hospitality and Tourism Practicum

(1-3L)(1-3CR) A hands-on practicum experience that allows students to apply skills and knowledge in a real-world environment. Students follow set criteria and guidelines in a progressive learning structure to master general practices in the hospitality and/or tourism industry including workplace behavior, marketing, logistics, and small business procedures.

HOSP 2320 Food and Beverage Management

(3L)(3CR) Provides a basic understanding of food production and service management, reviewing sanitation, menu planning, purchasing, storage, and beverage management. Spring

HOSP 2520 Marketing of Hospitality Services

(3L)(3CR) This course teaches how to use proven marketing techniques to improve business, and how to discover, identify and reach the desired customer by using marketing tactics specific to hospitality services.

HOSP 2525 - Recreation and Tourism Planning and Development

(3L)(3CR) Investigates the policy, planning, development, and management practices related to recreation; outdoor conservation practices; state and national park regulations; and other tourism opportunities. Spring

HOSP 2530 Tourism Management *(3L)(3CR)*

Explores major concepts in tourism and how tourism is an important factor in economic development on the local, state. regional, national and global stages. Provides an overview of the principles, practices, and philosophies that affect the cultural, social, economic, psychological, and marketing aspects of human travel and the tourism industry. Fall

HOSP 2600 Leadership and Management in the Hospitality Industry

(3L)(3CR) This course explores quality and leadership issues in today's hospitality industry. Topics include power and empowerment; communication; goal setting; high-performance teams; diversity; managing organizational change; and strategic career planning. Students will learn why traditional management theories don't fit today's industry, and how a company's service strategy relates to guest perception of value.

HOSP 2620 Training and Development for the Hospitality Industry

(3L)(3CR) Training is the key to keeping pace with the hospitality industry's changing demands for a qualified workforce. Learn how to develop, conduct, and evaluate one-on-one and group training that will reduce turnover, improve job performance, and help any organization attain its goals. Students will discover why training is an important investment for their property,

how to train various levels of employees and how to implement effective instructional design techniques and processes.

HOSP 2980 Cooperative Work Experience

(Hospitality Management) *(1-3CR) (Max. 9)* Students are afforded the opportunity to gain practical on-the-job experience in their area of hospitality management. Students will be supervised by the program coordinator and the employer. A minimum of 80 hours of on-the-job training represents one credit hour. Student must maintain 12 credit hours with a 2.0 GPA during the semester. **Prerequisites:** full-time hospitality management major and permission of program coordinator.

HUMN 1030 Environmental Humanities (HU)

(3L)(3CR) An introduction to the environmental humanities. Course readings and discussions focus on the terms and ideas shaping how humanities scholars write about nature, landscapes, and wildlife. The class draws upon a range of disciplines, including art, literature, philosophy, and anthropology. Over the semester, students explore the question of how humanities-oriented disciplines contribute to both academic and public conversations about the history, current state, and future of the natural environment.

HUMN 1101 First-Year Seminar: [Subject] (HU)

(3L)(3CR) First-Year Seminar is designed to help students make a meaningful transition from high school to college. As part of this effort, these classes focus attention on active learning, high-quality instruction, and academic content, all tied to common elements. By emphasizing the experience of first-year students, the seminar will build the intellectual and social skills students need to flourish at Casper College as they transition into college life and the campus community. The course meets the Casper College standards for a humanities credit.

HUMN 2020 Introduction to American Culture

(3L)(3CR) This course is designed as an overview of American culture. All students will develop a framework for a better understanding of some specific aspects of American life, such as family, education, religion, politics and business. This course will be particularly beneficial for students who have a limited knowledge of the values, perspectives, institutions, and traditions which bind Americans together.

HUMN 2045 Asian Art and Culture

(3L)(3CR) A survey of the visual arts produced in Asia and the Pacific region from the Neolithic era forward. Emphasis will be placed on understanding the cultural, political and/or religious significance of the works in addition to the styles and methods employed in their creation.

HUMN 2253 Ideas in Modern Literature

(2-3L) (2-3CR) The study of representative literary classics selected from modern literature.

HUMN 2320 The Quest for American Identity

(3L)(3CR) This interdisciplinary seminar explores the question of what it means to be an American. By learning from earlier debates over immigration and the African American experience, we will shed light on the role of race and ethnicity in the quest for American identity in the postmodern era. **Prerequisites**: admission into the honors program.

HUMN 2425 World Health

(3L)(3CR) Health is defined by culture and is manifested in the daily life of a society through values, beliefs, health practices, family systems, finances, politics, education, arts and the environment. In addition, the ongoing issues of access, quality and cost of healthcare affect the health of individuals and communities. They also have an impact on the economy and the quality of life of a society. Students must enroll in the college tour attached to this course independently, to ensure travel arrangement to make this learning experience possible.

HUMN 2475 Independent Reading in Humanistic Values

(1-3L)(1-3CR) (Max. 6) of credit under the tutelage of an instructor who agrees to work with the student. The instructor may also require some written work from the student, but this is left to the instructor's discretion.

HUMN 2485 Seminar in Humanities: (Subtitle)

(1-3L)(1-3CR) (Max. 12) Offered in answer to a specific need or public interest. Includes intensive seminars with a concentrated focus. A student may repeat this course under different subtitles to a maximum of 12 credit hours.

IMGT 2400 Introduction to Information Management *(3L)(3CR) [E]*

Concerned with managing the use of information systems to make organizations more competitive and efficient. Specific topics include organizational and technical foundation of information systems and building and managing systems.
Prerequisites: CMAP 1200.

IMGT 2410 Data Analytics *(.5L, 1LB)(1CR)*

Students learn the fundamentals of data analytics with Tableau. Students will work with the Tableau desktop software to analyze specific scenarios and form conclusions based on the data. Spring

IMGT 2420 Advanced Data Analytics

(.5L, 1LB)(1CR) Students learn advanced data analytics using software and develop an understanding of advanced data literacy. Students will work to analyze specific scenarios and form conclusions based on the data. Spring
Prerequisites: IMGT 2410 Data Analytics or permission of the instructor.

INET 1580 Web Page Authoring

(2L, 2LB)(3CR) This course covers the fundamental concept and practices of creating web content. Students begin by developing a basic web page and move on to developing a basic website. Topics include: organizing content; working with page layout; writing well-formed, valid HTML, working with cascading style sheets (CSS), linking to external websites and files on the Web. This course involves hands-on web page creation, giving students sufficient knowledge and confidence to design, develop and maintain quality websites. Windows and Word experience are recommended.

INET 1595 Word Press

(1L,2LB)(2CR) This course provides students with an overview of WordPress Content Management System. Includes hands-on design and creation of web pages and blogs for the internet. Designed to cover best practices for web site/blog creation. All

INET 1610 Dynamic Web Graphics

(2L, 2LB)(3CR) This course introduces students to dynamic web graphics. Upon completion of this course, participants will have the skills to design and deliver low-bandwidth dynamic websites that incorporate vector graphics with bitmaps, audio, animation, and advanced interactivity to create web experiences that attract and engage visitors. Keyboarding ability is recommended.

INET 1650 Web Programming I

(2L, 2LB)(3CR) This course covers the essential concepts of HTML, CSS and beginning JavaScript. Students begin by developing a basic Web page and move on to developing a basic web site. Topics include: working with page design, tables, creating Web page forms; working with cascading style sheets using multimedia on the Web; HTML and elementary JavaScript; working with objects special effects; windows and forms.

INET 1885 Adobe Photoshop for the Web

(2L, 2LB)(3CR) This course will teach students key Photoshop concepts and techniques utilizing the industry standard digital imaging software, Adobe Photoshop CS3. Using clear, step-by-step, project based lessons, students will walk through the creation of a specific project with each class building on the student's growing knowledge of the program. The information will be geared toward GUI (Graphic User Interface) specifically based on current WC3 web standards and best practices.

INET 1980 Cooperative Work Experience *(1-3CR) (Max 6)*

Students will have the opportunity to gain on-the-job experience to improve and develop web design and development skills. Students will be supervised by the program coordinator and the hosting employer. A minimum of 80 hours of on-the-job training represents one semester hour of work. Students must maintain a 2.0 GPA during the semester for which they are enrolled in this course.

Prerequisites: Student must be a Web Design major and have permission of the instructor

INET 2000 Web Programming II

(2L,2LB)(3CR) This course covers advanced JavaScript application development topics, including AJAX calls, web services, game loops, event driven programming, local storage, and remote storage containers. This course also reviews leading JavaScript UI libraries, a key component of professional front-end development.
Prerequisites: INET 1650 Web Programming I with a "C" or better or permission from the instructor.

INET 2670 Internet Ethics and Cyber Law

(3L)(3CR) This course will discuss current statutes and possible future trends in Internet ethics and cyber law. We will discuss such topics as intellectual property law vs the first amendment, copyrights, trademarks and the Web, cookies, email privacy, censorship, seminal legal cases and much more.

INET 2895 - Web Design Capstone/Seminar *(2LB)*

The student will participate in a project, agreed upon with the instructor, whereas they design, create, or update a website. This will serve as a culminating activity implementing all appropriate modalities taught within the degree parameters.
Prerequisites: permission of the instructor.

INST 1200 Non-Western Political Cultures

(3L)(3CR) This course gives students an appreciation of non-Western political cultures and how these cultures have created different political institutions and practices. Non-Western nations of Asia, Africa, and the Middle East are used as case studies.
Cross-listed: POLS 1200

INST 1250 Introduction to Comparative Government *(3L)(3CR)* How

do foreign states deal with the numerous challenges to their stability? Do institutions affect a state's approach to solving different problems? How do these different approaches affect policy? This course introduces students to different styles of governance and compares countries from around the world regarding their political ideology. Fall

INST 2310 Introduction to International Relations (HU) *(3L)(3CR)* A theoretical

and practical survey of the international political system, including concepts of power and power relationship, elements of international organizations and contemporary international relations.
Prerequisites: Must have completed POLS 1000 or HIST 1120 or have permission of the instructor.
Cross-listed: POLS 2310

INST 2350 Introduction to Global Studies

(3L)(3CR) This course introduces students to the main components of the interdisciplinary major in International Studies and to provide preparation for further study of key issues related to globalization.

ITEC 2360 - Teaching and Learning with Educational Technology

(3L)(3CR) Students discover how technology adds value to PK12 curriculum, exploring and evaluating technological and educational resources. Content includes learning to model, nurture creativity, make decisions about appropriate applications and collaborate with others to create culturally competent communities while developing information literacy, ethical responsibility, problem-solving, digital communication, and computational thinking.
Prerequisites: EDFD 2020

ITEC 2525 Teaching Online with Moodle

(2L, 2LB)(3CR) The purpose of this course is to assist faculty in becoming more familiar with the Moodle Learning Management System (LMS). Faculty will study the skills required for constructing and delivering a course in the Moodle platform.

JAPN 1010 First Year Japanese I *(4L)(4CR)* This

course provides an introduction to the Japanese language through a multi-skill approach and understanding of the Japanese culture/society. Students who want to take for credit the next course in the sequence must complete this course with a grade of "C" or better.

JAPN 1020 First Year Japanese II *(4L)(4CR)* This course is a continuation of JAPN 1010. Students who want to take for credit the next course in the sequence must complete this course with a grade of "C" or better.
Prerequisites: JAPN 1010.

JAPN 2030 Second Year Japanese I *(4L)(4CR) [E]* This course is a continuation of Japanese language study at a higher level. Students who want to take for credit the next course in the sequence must complete this course with a grade of "C" or better.
Prerequisites: JAPN 1020.

KIN 1004 Introduction to Kinesiology and Health Promotion *(2L)(2CR)* Provides a general concept of the meaning and interpretation of kinesiology, giving specific information for the professional student of kinesiology, the nature of the field, its professional opportunities, personal rewards and satisfactions, and requirements of a sound program of professional preparation.

KIN 1020 Taping and Wrapping of Injuries *(2LB)(1CR)* This course introduces students to basic taping and wrapping techniques used to prevent and treat common orthopedic pathologies. Students will obtain both didactic information and practical application of taping and wrapping techniques, splinting and ambulatory devises, as well as guidelines for fitting protective equipment.

KIN 1052 Introduction to Athletic Training *(3L)(3CR) [E]* The purpose of this course is to provide the prospective athletic trainer with the skill and knowledge necessary to implement a risk management and preventative program for athletes and others involved in physical activity.

KIN 1058 Emergency Management of Athletic Injury/Illness *(3L)(3CR) [E]* The purpose of this course is to provide the prospective athletic trainer with the skill and knowledge necessary to provide for emergency care, triage, and management of emergencies and life-threatening situations for the physically active.
Concurrently: Concurrent Enrollment in KIN 2068 is required

KIN 1960 Kinesiology and Health Promotion Experience I *(2LB)* This course offers a real-world observation experience of diverse kinesiology-based healthcare careers. Designed to expand students' professional knowledge early on, the primary focus is on direct clinical observation across a variety of healthcare settings. Students will gain practical insight into career paths such as Physical Therapy (PT), Occupational Therapy (OT), and other related health roles that utilize a strong foundation in human movement and health promotion. As needed
Concurrently: KIN 1004 Introduction to Kinesiology

KIN 2030 Motor Learning *(3L)(3CR)* Exploration and explanation of material and methods that underlie the learning and performance of motor skills.

KIN 2050 Functional Kinesiology *(2L, 2LB)(3CR)* Building from anatomy knowledge, this course provides a study of normal mechanics of human movement and functional limitations related to disabling conditions. Upper and lower extremity function is studied. Range of motion and manual muscle testing of kinesthetic movement are practiced. Neuroanatomy concepts related to disabling conditions are presented.
Prerequisites: ZOO 2015

KIN 2052 Prevention and Care of Athletic Injuries *(3L)(3CR)* Theory and practical application in the field of athletic training. Emphasizes prevention and care of athletic injuries, wrapping and taping techniques.

KIN 2057 Assessment and Evaluation of Athletic Injuries/Illness: Upper Extremity, Spine, and Head *(3L)* This course provides the prospective athletic trainer with the skill and knowledge necessary to evaluate and recognize upper extremity, cervical spine, and head injuries that occur to the athlete and the physically active.

KIN 2058 Assessment and Evaluation of Athletic Injuries/Illness: Lower Extremity *(3L)* This course provides the prospective athletic trainer with the skill and knowledge necessary to evaluate and recognize lower extremity and spine injuries that occur to the athlete and physically active.

KIN 2068 Athletic Training Clinical I *(2LB)(1CR)* This course provides clinical and field experience for the athletic training student. Skill and knowledge learned in KIN 1052 and KIN 1058 are applied in the clinical and field settings.

KIN 2078 Athletic Training Clinical II *(2LB)(1CR)* This course provides clinical and field experience for the athletic training student. Skill and knowledge learned in KIN 1052 and KIN 1058 are applied in the clinical and field settings.

KIN 2098 Athletic Training Clinical III *(2LB)(1CR)* This course provides clinical and field experience for the athletic training student. Skill and knowledge learned in KIN 1052, KIN 1058 and KIN 2057 are applied in the clinical and field settings.

KIN 2130 Directed Study in Human Prosection *(1L, 4LB)(3CR)* In this course students will engage in detailed regional dissection of the human body with an emphasis on dissection techniques. It is designed to provide students who already have experience working with a human anatomical donor an additional opportunity to enhance their knowledge of human structure. The donor used for this course will serve as the prosection specimen in ZOO 2140. **Prerequisites:** ZOO 2140, or permission of the instructor.

KIN 2135 Personal Trainer Education *(3L)(3CR)* This course introduces students to exercise science principles, client assessment, and exercise program design. Students learn how to utilize multiple tools, skills, and knowledge to assess clients' health and fitness. Students will further learn how to design and implement programs to improve muscular strength, cardiovascular endurance, body composition, and other health related components of fitness.

KIN 2136 Sports Nutrition *(3L)(3CR)* This course introduces the student to evidence-based information relating directly effective nutrition for the active as well as Athletes looking for performance enhancement.

KIN 2960 - Kinesiology and Health Promotion Experience II *(4LB)(2CR)* This course will build on the knowledge gained from KIN 1960. The students will pick 3 areas of the previous experience to get a more in depth training and instruction in each of those areas. As needed **Prerequisites:** KIN 1960: Kinesiology and Health Promotion Experience I

KIN 2970 Kinesiology & Health Promotion Experience III *(8LB)(4CR)* This course provides a clinical / field internship experience where the student will be able to apply the skills and knowledge previously learned. This can be a rotating offering depending upon where the individual student is in their program **Prerequisites:** KIN 1960 and KIN 2960

LEGL 1610 Introduction to the Paralegal Profession *(3L)(3CR)* An introduction to the skills necessary to perform paralegal tasks such as briefing cases and interviewing clients. Will introduce students to substantive legal concepts, ethics, and to careers in the paralegal profession.

LEGL 1620 Transactional Law *(3L)* Transactional law for the paralegal covers contracts, corporations, probate, and real property skills necessary for the practicing paralegal. Students also participate in a job search seminar.

LEGL 1700 Legal Analysis *(3L)(3CR)* Covers briefing, legal analysis, and synthesizing skills. Students will brief, analyze and synthesize cases on substantial law issues. **Prerequisites**: LEGL 1610 or concurrent enrollment.

LEGL 1710 Legal Research and Writing I *(3L)* Covers the basic tools of legal research: citation, federal and state decisions, digests, statutes, law reviews, the use of Shepard's and Westlaw. Students complete research

exercises and write an interoffice memorandum.

LEGL 1720 Legal Research and Writing II

(3L)(3CR) Covers legal writing, fact investigation, interviewing fact witnesses, drafting witness statements and legal drafting.
Prerequisites: LEGL 1710.

LEGL 2500 Civil Procedure

(3L)(3CR) Uses the Federal Rules of Civil Procedure and the Wyoming Rules of Civil Procedure to teach service of process, filing, discovery, and execution of judgments. Includes the drafting of pleadings and discovery documents, digesting depositions, compiling a medical chronology and case management.
Prerequisites: LEGL 1610.

LEGL 2525 Litigation Support

(3L)(3CR) Covers substantive tort law in the framework of a trial. Students learn skills necessary to perform as litigation assistants by organizing a trial notebook, working with experts, preparing exhibits, and researching motions.
Prerequisites: LEGL 2500.

LEGL 2550 Litigation Support

(3L)(3CR) Covers substantive tort law in the framework of a trial. Students learn skills necessary to perform as litigation assistants by organizing a trial notebook, working with experts, preparing exhibits, and researching motions.
Prerequisites: LEGL 2500.

LEGL 2610 Family Law

(3L)(3CR) Covers the substantive law of domestic relations with specific emphasis on the role of the paralegal in these cases.

LEGL 2970 Legal Assistant Internship

(1-3L)(1-3CR) (Max. 6) Students are placed in a law firm, clerk's office, public defender's office, district attorney's office, or other appropriate legal environment. Students will be provided the opportunity to work as paralegals under the supervision of a lawyer and the instructor.
Prerequisites: LEGL 1710 and LEGL 2500.

LEGL 2975 Independent Studies for the Legal Assistant

(1-3L)(1-3CR) (Max. 6) Faculty-guided research in areas of law relevant to a paralegal career. Students will be given the opportunity to research legal cases, law review articles and other materials. Students will be required to complete projects which will refine their paralegal skills.
Prerequisites: LEGL 1710.

LIFE 1020 Life Science (SCI)

(3L, 3LB)(4CR) [E] Life Science is an introductory course emphasizing principles of biology including cell structure and function, genetics, ecology, evolution and organismal biology. The applications of these principles to societal issues such as the conservation of biodiversity, overpopulation and global environmental changes, biotechnology, and human wellness and disease are also considered. This course fulfills a laboratory science requirement for non-biology majors such as those in the social and behavioral sciences, humanistic studies, etc.
Concurrently: This course is a requirement of elementary education majors and should be taken prior to or concurrently with EDCI 1430.

LIFE 2400 General Ecology

(3L)(3CR) [E] An introduction to the principles of ecology. Topics stressed include ecosystems, communities, populations, succession, aquatic and terrestrial habitats, natural selection, abiotic interactions, and speciation.
Prerequisites: BIOL 1000, BIOL 1010 or equivalent
Cross-listed: BIOL 2400

LIFE 2410 Field Ecology I

(5LB)(2CR) [E] A field and laboratory course to introduce research methods in general ecology. Includes required field trips.
Prerequisites: BIOL 1010, or permission of the instructor.
Cross-listed: BIOL 2410

LIFE 2480 Cooperative Work Experience

(2-16LB)(1-8CR) This course provides the opportunity to gain life science and/or wildlife management concepts from a vocational or employment experience within the student's area of specialization. A minimum of 80 hours of on-the-job training represents one semester credit hour. The instructor and the employer will supervise students.
Prerequisites:
Preapproval/consent of instructor; Life Sciences, Environmental Science, or Wildlife Management major. Students must have a 2.0 GPA.
Cross-listed: ENR 2480

MANF 1610 Introduction to Robotics *(4LB)(2CR)* Students will explore the principles of robotics by building, programming, and modifying a robot. Students will gain experience in the following areas: fabrication, electronics, computer programming, physics, and teamwork.

MANF 1616 Robot Construction *(4LB)(2CR)* Advanced class in robotics. Students will be working on complex projects in designing, building, and programming a robot. Students will gain advanced experience in fabrication, electronics, computer programming, physics, and teamwork.

MANF 2520 Metrology in Manufacturing *(2L,2LB)(3CR)* Use of advanced dimensional measuring tools including CMM (Coordinate Measuring Machine), high precision digital height gage, gage blocks, thread gages, test indicators and other measuring tools.

MANF 2525 Design and Manufacturing Methods *(2L,4LB)(4CR)* A course emphasizing solid modeling and manufacturing techniques involved with various CNC equipment and the impacts of CAD on design and production. Manufacturing techniques utilizing CNC plasma, CNC router, laser engraver, machining/turning center and 3D printer will be covered in this course.
Concurrently: ENTK 2010 or instructor approval.

MANF 2530 Design and Manufacturing Methods II *(2L,4LB)(4CR)* This course is a continuation of Design and Manufacturing Methods I. This course will emphasize solid modeling and manufacturing techniques involved with various CNC equipment and the impacts of CAD on design and production. Manufacturing techniques utilizing CNC plasma, CNC router, laser engraver, machining/turning center and 3D printer will be covered in this course. Spring
Prerequisites: MANF 2525 or permission of instructor.

MANF 2550 Advanced CNC I *(2L,4LB)(4CR)* Programming, setup and use of advanced CNC equipment. EDM (electro-discharge machining), CNC turning center with live tooling and 5 axis machining centers will be explored. Every other spring semester
Prerequisites: MCHT 2780 or MCHT 2790 or instructor permission

MANF 2560 Advanced CNC II *(2L,4LB)(4CR)* A continuation of Advanced CNC I, this course will focus on efficiency of setup, job documentation, cycle time and part cost of components manufactured on an EDM (electro-discharge machining), CNC turning center with live tooling and 5 axis machining center.
Prerequisites: MANF 2550

MANF 2690 Robot Welding *(2L, 4LB)(4CR)* Students will learn the fundamentals of safely programming a robot for welding applications.
Prerequisites: WELD 1770 or WELD 1820 or permission of the instructor.

MANF 2975 Independent Study Manufacturing *(1-3L)(1-3CR)* Manufacturing majors who have completed the introductory courses may be permitted to contract with the instructor for special advanced problems in manufacturing applications.
Prerequisites: Sophomore standing and permission of instructor.

MATH 0900 Pre-Algebra Arithmetic *(4L)(4CR)* The study of rational numbers, the operations of addition, subtraction, multiplication and division of same without a calculator; also includes the study of basic order of operations, unit conversion and percent problems, and linear equations.
Prerequisites: ACT Math score of 0-18, or an appropriate placement score within the last year. A 'C' or better in this class allows the student to take a subsequent math course within the next academic year.

MATH 0920 Elementary Algebra *(4L)(4CR)* The study of integer exponents and their properties; linear equations and inequalities: to solve and to graph; also includes the study of function notation and system of equations; and the study of the four basic operations of polynomials and factoring of polynomials.
Prerequisites: ACT Math score

of 19-20, or an appropriate placement score within the past year, or a "C" or better in MATH 0900. A 'C' or better in the class allows the student to take a subsequent math course within the next academic year.

MATH 0925 Math Study Skills

(1L)(1CR) Research-based procedures and skills to improve student's math learning and grades and reduce test anxiety. S/U grading only.

MATH 0930 Intermediate Algebra

(4L)(4CR) The study of rational expression; the operations of addition, subtraction, multiplication and division of same; also includes the study of solutions and properties of rational, quadratic, exponential and logarithmic equations; in addition, students will study applications of same.
Prerequisites: ACT Math score of 21-22, or an appropriate placement score within the past year, or a C or better in MATH 0920. A 'C' or better in this class allows the student to take a subsequent math course within the next academic year.

MATH 0934 Elementary and Intermediate Algebra

(5L)(5CR) The study of integer exponents and their properties; linear equations and inequalities: to solve and to graph; also includes the study of function notation and system of equations; and the study of the four basic operations of polynomials and factoring of polynomials; also includes the study of rational expressions; the operations of addition, subtraction, multiplication and division of same; also includes the study of solutions and properties of rational , quadratic, exponential and logarithmic equations; in addition, students will study applications of same. This class is an accelerated course that combines MATH 0920 and MATH 0930 content in one semester and is designed for the student who needs a review of these topics.
Prerequisites: ACT Math score of 19-20, an appropriate placement score within the past year, or a "C" or better in MATH 0900. A 'C' or better in this class allows the student to take a subsequent math course within the next academic year.

MATH 1000 Problem Solving (MATH)

(3L)(3CR) [E] Focuses on the strategies of problem solving. Topics in the course are taken from financial mathematics, set theory, logic, probability, statistics and discrete mathematics and "just in time" algebra topics, such as exponents that are necessary to students in their success in this class and in their major. All
Prerequisites: A "C" or better in MATH 0920 ; or an ACT Math score of 21 or better; or an appropriate placement score within the past year.

MATH 1100 Number and Operations for Elementary School Teachers

(3L)(3CR) This course is for prospective elementary school teachers. Its purpose is to prepare students to be competent in teaching the major concepts of the real number system with the four arithmetic operations. The course includes a study of problem-solving, patterns, the origin of numeration systems, sets, number theory, the properties of whole, integer, rational and real numbers, and algorithms for addition, subtraction, multiplication, and division. Students will use manipulatives to model/explore mathematics and apply their knowledge through service learning.
Prerequisites: A "C" or better in MATH 0920 or an ACT Math score of 21 or better; or an appropriate placement score within the past year.

MATH 1105 Data, Probability and Algebra for Elementary School Teachers (MATH)

(3L)(3CR) This is for prospective elementary school teachers. Its primary emphasis is asking and answering questions intelligently about our world through the use of algebra, probability, and data analysis in order to prepare students to be competent in teaching these major concepts. Explorations focus on representing, analyzing, generalizing, formalizing, and communicating patterns and the chances of future events. Students will use manipulatives to model/explore mathematics and apply their knowledge through service-learning.
Prerequisites: A "C" or better in MATH 1100.

MATH 1400 College Algebra (MATH)

(4L)(4CR) [E] Elementary functions and graphing for mathematics, science, business, and engineering majors preparing for the regular calculus sequence. Includes exponential and logarithmic functions.
Prerequisites: A "C" or better in MATH 0930 or MATH 0934; or an ACT Math score of 23 or better; or an appropriate placement score within the past year.

MATH 1405 Trigonometry (MATH) *(3L)(3CR) [E]* The study of the Unit Circle and right triangle approaches, including identities, trigonometric equations, applications of trigonometric functions, and conics. Designed for mathematics, science and engineering majors preparing for the regular calculus sequence.
Prerequisites: A "C" or better in MATH 1400; or an ACT score of 26 or better; or an appropriate placement score within the past year. Deletes two hours credit from MATH 1450.

MATH 1450 Algebra and Trigonometry (MATH) *(5L)(5CR) [E]* Elementary algebraic and trigonometric functions and graphing for mathematics, science, and engineering majors preparing for the regular calculus sequence. Includes the material in both MATH 1400 and MATH 1405, as described above.
Prerequisites: ACT Math score of 24-25; or an appropriate placement score within the past year; or a "C" or better in MATH 0930 or MATH 0934. Deletes credit for MATH 1400, and two hours of MATH 1405.

MATH 2120 Geometry and Measurement for Elementary School Teachers *(3L)(3CR)* This course is for prospective elementary school teachers. Its primary emphasis is on the development of spatial reasoning. Explorations focus on the investigations of two- and three-dimensional shapes, including their properties, measurements, constructions, and transformations with the intent of preparing students to be competent in teaching these major concepts. Students will use manipulatives to model/explore mathematics and apply their knowledge through service learning.
Prerequisites: A "C" or better in MATH 1100

MATH 2200 Calculus I (MATH) *(4L)(4CR) [E]* Introduction to the calculus of single variables. Covers derivatives of polynomial, trigonometric, exponential and logarithmic functions. Includes limits, applications of derivatives and related theorems.
Prerequisites: A "C" or better in MATH 1405 or MATH 1450; or an ACT Math score of 27 or better; or an appropriate placement score within the past year.

MATH 2205 Calculus II *(4L)(4CR) [E]* Completion of the calculus of single variables. Cover integrals of polynomial, trigonometric, exponential and logarithmic functions. Theory includes applications of integration, methods of integration, elementary differential equations, and infinite sequences and series.
Prerequisites: A "C" or better in MATH 2200.

MATH 2210 Calculus III *(4L)(4CR) [E]* Multivariable calculus, including limits and continuity of functions of several variables, partial differentiation, multiple integration, and introduction to vector calculus.
Prerequisites: A "C" or better in MATH 2205.

MATH 2250 Elementary Linear Algebra *(3L)(3CR) [E]* The study of matrices, systems of equations, vector spaces, linear transformations, eigenvectors and applications of linear algebra. Fall
Prerequisites: A "C" or better in MATH 2355 or MATH 2200.

MATH 2300 Discrete Structures *(3L)(3CR)* Dual listing. See COSC 2300 for the course description. Spring

MATH 2310 Applied Differential Equations I *(3L)(3CR) [E]* Solution of first order differential equations, differential operators, LaPlace transforms, systems, power series solutions, and applications. Spring
Prerequisites: A "C" or better in MATH 2210.

MATH 2350 Business Calculus (MATH) *(4L)(4CR)* The study of single variable calculus emphasizing applications in business and economics. The topics that will be covered include the review of functions, limits and continuity, derivatives with applications and integrals with applications.
Prerequisites: A "C" or better in MATH 1400; or an ACT Math score of 26 or better; or an appropriate placement score within the past year.

MATH 2355 Mathematical Applications for Business *(4L)(4CR)* This course covers business problems using several different mathematical models. The topics that will be covered include finance, matrices, linear programming, least squares, probability, statistics and use of spreadsheet software.

Prerequisites: A "C" or better in MATH 1400; or an ACT Math score of 26 or better; or an appropriate placement score within the past year.

MCHT 1570 Machine Trades Computations

(2L)(2CR) Practical application of mathematical problems and formulas directly related to the machine shop.

MCHT 1610 Machine Tool Technology I

(1L,2LB) An introduction to machine tools and processes. Includes theory and operation of the engine lathe, boring, sawing, tool grinding, threading, layout, and machine maintenance.

MCHT 1620 Machine Tool Technology II

(1L,2LB)(2CR) An introduction to machine tools and processes. Includes theory and operation of the vertical milling machine.

MCHT 1640 Basic Machining Practice

(4L,12LB)(10CR)
Introduction to bench work and machining processes. Includes work on saws, drilling machines, engine lathes, and milling machines.

MCHT 1650 Intermediate Machining Practice

(4L, 12LB)(10CR) A continuation of MCHT 1640 with more complicated machining operations and theory.
Prerequisites: MCHT 1640.

MCHT 1680 Blueprint Reading *(2L)(2CR)*

Introduces the student to the fundamentals of blueprint reading and freehand sketching as it applies to the machine shop.

MCHT 1700 Introduction to CNC Plasma Operations

(1L)(2LB)(2CR) An introduction to the operation and basic programming of the CNC Plasma cutting machine. Also covered will be a beginning class on simple CAD software (utilized with the plasma machine).

MCHT 1980 Cooperative Work Experience (Machine Shop) *(1-8CR) (Max. 8)*

On-the-job training with a cooperative machine shop. Weekly work reports and 80 hours of work for each hour of credit.
Prerequisites: permission of the instructor.

MCHT 2650 Advanced Machining Practice

(2L, 6LB)(5CR) Advanced theory and machine operation for second year students.
Prerequisites: MCHT 1650

MCHT 2680 Metallurgy

(2L, 2LB)(3CR) Introduction in different grain structures of commonly used metals and their reaction to heat treatment, welding, machining, surface treatments, and mechanical stress. Various laboratory exercises on stress relief, shrinkage, fatigue, and cooling rates will be presented. The course is designed for anyone interested in welding, machining or technical education requiring knowledge of classification and characteristics of metals.

MCHT 2780 Computer Numerical Control (CNC) Machining Center

(2L,4LB)(4CR) An introductory course in 3-axis CNC machining center programming and 2-axis CNC plasma cutter programming. The course is structured so no prior experience with CNC machining center or CNC plasma programming or operation is required. The time will be divided between classroom and shop. Fall semester

MCHT 2790 Computer Numerical Control (CNC) Turning Center

(2L, 4LB) (4CR) An introductory course in two-axis CNC turning center programming. The course is structured so no prior experience with CNC lathe programming or operation is required. The time will be divided between classroom and shop. Spring semester

MCHT 2800 Computer Assisted Manufacturing

(2L, 2LB) (3CR) Computer applications in programming machine tools. CNC Machining Center and CNC plasma cutter software will be used to acquaint students with CAD/CAM systems.

MCHT 2965 Directed Studies *(1-2CR) (Max. 8)*

An option for students with sufficient background to pursue special problems in the machine shop under contract with the instructor.
Prerequisites: Permission of instructor

MGT 1000 Introduction to Supervision *(2L)(2CR)* A practical course in business supervision covering communication, attitude perception and modification, group dynamics, orientation and training, discipline, grievances, and termination. Role playing is emphasized as a learning tool. **Prerequisites:** BADM 1000 or MGT 2100, or permission of the instructor.

MGT 2050 Leading Organizational Change *(3L)(3CR)* This class will combine leadership concepts with models of organizational change. Change will be examined at the individual, team, and organizational or systems level. The focus is on uncovering traps that create stress, waste resources, slow change efforts, or lead to outright failure and discovering how to lead, cope and win in the face of great change. Class participants become familiar with a variety of change models as they are utilized in real organizations attempting change. The class will examine how organizational culture is an ever-present barrier to lasting change and how that impacts the decision on the part of organizations to initiate change. **Prerequisites:** MGT 2100

MGT 2100 Principles of Management *(3L)(3CR) [E]* Analyzes objectives, policies, organizational structure, material and human resource utilization, human relations, planning, innovating, and controlling as management responsibilities. Students also study and discuss current activities in specific areas of business and industry.

MGT 2110 Organizational Behavior *(3L)(3CR)* This is an introductory course exposing students to theoretical assumptions of organizational change. Students will be introduced to such topics as organizational structure, recruitment, retention and succession planning, employee motivation, and diversity and culture within the workplace. Students will explore how diversity and culture impact individuals, organizations and society. Students will learn practical operations of recruiting, retention and development of employees by focusing on matching employees' needs and aspirations within the organization. They will study the different types of organizational structures and their influence on organizational intelligence, employee development, learning and performance. **Prerequisites:** MGT 2100.

MGT 2200 Strategic Human Resource Management *(3L)(3CR)* Designed to present the methods, functions, and techniques of personnel administration. Emphasis is placed in recruiting, interviewing, selecting, placement, training, and evaluation of personnel. Class discussions and projects will include topics of job design and analysis, compensation and benefit administration, human resource planning, and union/management relations. **Prerequisites:** MGT 2100, or permission of the instructor.

MGT 2480 Cooperative Work Experience (Management) *(1-3L)(1-3CR) (Max. 6)* Students are afforded the opportunity to gain practical, on-the-job experience in their specialties. Students will be supervised by the program coordinator and the employer. A minimum of 80 hours of on-the-job training represents one semester hour. Students must maintain 12 credit hours with a 2.0 GPA during the semester.- **Prerequisites:** full-time management major and permission of the program coordinator.

MKT 1010 Sales and Customer Relationship Management *(3L)(3CR)* A survey of the principles and methods of the selling process and customer relationship management strategies. Covers topics needed to develop and manage long-term relationships with customers and suppliers. An emphasis is placed on relationship selling, presentation, prospecting, handling objectives, closing techniques, customer service, and service recovery strategies. Spring

MKT 1100 Retailing *(3L)(3CR)* The fundamentals of retail store organization and management such as the types of retail stores, site selection, store layout, pricing, display, promotion, and personnel policies.

MKT 1300 Integrated Marketing Communication *(3L)(3CR)* National, regional, and local media, layouts, and promotional policies. Fall

MKT 1485 Marketing Seminar *(3L)(3CR)* The seminar-style course will bring first-year marketing students and students interested in marketing and introduce them to careers and opportunities within the marketing industry. Various case studies will be examined to understand the current state of the marketing industry and its history. Along with Casper College faculty, guest speakers will present various fields and topics to students as they embark on their marketing studies and select concentrations and certificates. Additionally, students will be introduced to the outcomes of the marketing program and the course capstones and projects embedded into their foundational marketing courses. This will allow the students to start building their portfolio of work at the beginning of their studies. Finally, students will be introduced to basic marketing concepts through self-branding and present a personal marketing plan at the end of the course.

MKT 2000 Introduction to Digital Marketing *(3L)(3CR)* This course will teach students about the ever-changing world of e-marketing on the internet. The internet is the first marketing tool on earth that allows for instant networking to billions of potential customers within a personalized relationship model. As businesses all over the world transitions their marketing resources to take advantage of this phenomenon, e-marketing has become a necessary and powerful tool. Students will incorporate contemporary software platforms related to digital marketing and apply foundational knowledge as it relates to the foundation of e-commerce, the role of independent third-parties, security standards and payment systems and software. Spring

MKT 2005 Digital Marketing II *(3L)(3CR)* This course builds on MKT 2000, Introduction to Digital Marketing, by applying and analyzing the concepts in MKT 2000 as they pertain to website optimization, SEO, paid search, display ads, social media, email marketing, and other digital strategies and concepts. Students will apply their foundational knowledge and certifications by applying and evaluating a digital marketing plan and building their digital application and evaluation capacity.

MKT 2100 Principles of Marketing *(3L)(3CR) [E]* Management's approach to analyzing and solving problems in product planning, pricing, promotion, and distribution of goods and services. Consumer orientation and marketing's key role in profitable business operations are emphasized.

MKT 2200 Consumer Behavior *(3L)(3CR)* This course is an analysis of the psychological and sociological aspects of consumer decision-making and behavior including learning, consumer perception, influence of individual predispositions or buying processes, and group influences. Fall

MKT 2480 Cooperative Work Experience (Marketing) *(1-3L)(1-3CR) (Max. 9)* Students are afforded the opportunity to gain practical on-the-job experience in their specialties. Students will be supervised by the program coordinator and the employer. A minimum of 80 hours of on-the job training represents one semester hour. The student must maintain 12 credit hours with a 2.0 GPA during the semester. **Prerequisites:** full-time retail merchandising major and permission of the program coordinator.

MLTK 1500 Clinical Hematology and Hemostasis *(2L, 4LB)* This course provides an in-depth study of the theoretical principles and laboratory applications of hematology and hemostasis as they relate to clinical laboratory medicine. Topics include normal and abnormal hematopoiesis; blood cell development, morphology, and physiology; hemoglobin structure, synthesis, and degradation; and the pathophysiology of anemias and hematologic malignancies. Students will explore leukocyte, erythrocyte, and platelet function, as well as the fundamental principles of hemostasis, coagulation pathways, and anticoagulant therapy.
Prerequisites: BIOL 1000 or BIOL 1010 or instructor permission.
Concurrently: BIOL 1000 or BIOL 1010 or instructor permission.

MLTK 1600 Clinical Immunohematology

(2L, 4LB) This hybrid course provides an introduction to the theoretical principles, methodologies, and clinical applications of immunohematology and serology in the medical laboratory. All lecture content is delivered online, allowing students to progress through theoretical concepts with flexibility, while all laboratory sessions are held on campus to ensure competency-based hands-on training in blood bank techniques. Students learn the foundational principles of red cell immunology, antigen–antibody interactions, and the clinical significance of blood group systems. Laboratory experiences emphasize pre-transfusion testing, ABO/Rh typing, antibody screening and identification, crossmatching, and investigation of transfusion reactions. Additional focus is placed on maternal/neonatal testing for hemolytic disease of the fetus and newborn (HDFN), quality assurance, reagent selection, and troubleshooting unexpected serologic results. The course prepares students for clinical rotation in Immunohematology and aligns with NAACLS entry-level competencies for MLT graduates.
Prerequisites: BIOL 1000 or BIOL 1010 or instructor permission.

MLTK 1700 Microscopy: Urinalysis and Body Fluids

(1L, 4LB)(2CR) This hybrid course introduces the theoretical principles and hands-on laboratory practice of routine and specialized testing for the analysis of urine and selected body fluids. All lecture content is delivered online, providing students with foundational knowledge of renal physiology, specimen collection, and analytical methodologies. All laboratory activities are conducted on campus, allowing students to develop competency in gross, chemical, and microscopic examination techniques using clinical laboratory instrumentation and microscopy. Emphasis is placed on the correlation of laboratory findings with disease states, recognition of normal and abnormal formed elements, and interpretation of results within a clinical context. Quality assurance, method validation considerations, and laboratory safety practices are integrated throughout the course to support accurate and reliable patient testing. This course prepares students for clinical rotation in urinalysis and body fluids and aligns with NAACLS entry-level competencies for MLT graduates.
Prerequisites: BIOL 1000 or BIOL 1010

MLTK 1800 Principles of Phlebotomy

(2L, 4LB) This hybrid course provides a comprehensive introduction to the principles, techniques, and professional practice of phlebotomy. Didactic content is delivered online, allowing students to build foundational knowledge of anatomy, physiology, specimen requirements, and collection protocols. On-campus laboratory sessions and simulation experiences give students hands-on practice performing venipuncture and capillary procedures using a variety of collection devices including evacuated tube systems, syringes, butterfly needles, and microcollection techniques. Emphasis is placed on infection prevention, universal precautions, patient identification, specimen integrity, labeling accuracy, and adherence to quality assurance standards. Students learn proper handling, transport, and processing of specimens while developing the communication skills and professional behaviors required in patient care settings. Certification expectations, regulatory requirements, and ethical considerations are integrated to prepare students for clinical placement and entry-level phlebotomy practice across diverse health care environments.

MLTK 1970 Clinical Practicum: Phlebotomy

(120 Clinical Hours)(2CR) This clinical laboratory practicum will introduce the student to the profession and practice of phlebotomy. Students will observe and practice phlebotomy skills and job tasks. Emphasis is placed on the application of phlebotomy knowledge and skills necessary to perform a variety of blood collection methods using proper techniques and precautions including: vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture specimen collection on adults, children and infants. Infection prevention, universal precautions, proper patient identification, specimen acquisition, handling, processing, labeling, and quality assurance are essential tasks associated with the profession. Patient confidentiality must be maintained at all times and professional conduct is expected and assessed as part of the student grade.
Prerequisites: MLTK 1800 or

concurrent enrollment or instructor permission.

MLTK 2500 Clinical Chemistry

(2L, 4LB) This hybrid course introduces the theoretical principles, analytical techniques, and advanced instrumentation used in clinical chemistry, pharmaceutical research, and biotechnology. All lecture content is delivered online, providing students with foundational knowledge of clinical analytes, metabolic pathways, disease mechanisms, and method principles. On-campus laboratory sessions emphasize hands-on operation of chemistry analyzers, manual and automated testing procedures, quality control, calibration, and troubleshooting. Students perform diagnostic analyses and correlate laboratory results with disease states, preventive medicine, and patient management. Additional topics include quality assurance practices, instrumentation concepts, therapeutic drug monitoring, endocrinology, reagent preparation, and interpretation of chemistry panels within a clinical context. This course prepares students for clinical rotation in chemistry and aligns with NAACLS entry-level competencies for MLT graduates.
Prerequisites: BIOL 1000 or BIOL 1010

MLTK 2600 Clinical Microbiology I

(1L, 4LB)(2CR) Concentrated laboratory instruction in clinical microbiology including methods for recovery, identification of pathogens, culture techniques, procedures, antibiotic testing and interpretation of clinical data. Emphasis is on clinical specimens, testing algorithms and data correlation including diagnostics, public health, and quality control. This course provides the essential overview of information and technical competencies needed for the clinical experience for medical laboratory technician majors.
Prerequisites: MOLB 2210 or MOLB 2240 or instructor permission.

MLTK 2650 Clinical Microbiology II

(1L, 4LB)(2CR) Concentrated laboratory instruction in clinical microbiology focusing on fastidious microorganisms, mycobacterium, parasites, viruses and pathogenic fungi. Laboratory skill will include the identification of pathogens, culture techniques, procedures, and interpretation of clinical data. This course provides an essential overview of information and technical competencies needed for the clinical experience for medical laboratory technician majors.
Prerequisites: MLTK 2600 or Instructor Permission.

MLTK 2700 Immunology

(3L, 3LB)(4CR) Advanced biology course of immune systems: cellular and molecular mechanisms; host resistance to infectious agents; as well as hypersensitivities, autoimmunity, tumor and tissue rejection. Includes laboratory for molecular and immunological techniques.
Prerequisites: MLTK 2650 or concurrent enrollment or permission of the instructor.

MLTK 2800 Clinical Pathophysiology

(3L, 4LB)(4CR) Advanced topics in clinical chemistry, microbiology, immunohematology, serology, hematology, laboratory management, professional development and laboratory regulatory issues. Students are presented with clinical scenarios for evaluation, interpretation, development of decision-making strategies and resolution. Clinical cases involve advanced principles of clinical laboratory medicine and management.
Prerequisites: MLTK 1500, MLTK 1600, MLTK 1700, MLTK 2500, MLTK 2600, MLTK 2650 and MLTK 2700.

MLTK 2971 Clinical Practicum: Hematology

(160 clinical hours)(2CR) This is an advanced course and clinical laboratory experience in the principles and procedures of hematology. It is an online supported, off-campus clinical laboratory experience taught by clinical faculty. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices and medical laboratory technician professionalism are included.
Prerequisites: MLTK 1500, MLTK 1600, MLTK 1700, MLTK 2500, MLTK 2600, MLTK 2650 and MLTK 2700. Access to computer technology and internet services.

MLTK 2972 Clinical Practicum: Chemistry

(160 clinical hours)(2CR) This is an advanced course and clinical laboratory experience in the principles and procedures of chemistry. It is an online supported, off-campus clinical laboratory experience taught by clinical faculty. Emphasis is on the application of knowledge and technical skills to clinical

testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices and medical laboratory technician professionalism are included.
Prerequisites: MLTK 1500, MLTK 1600, MLTK 1700, MLTK 2500, MLTK 2600, MLTK 2650 and MLTK 2700. Access to computer technology and internet services.

MLTK 2973 Clinical Practicum: Immunohematology

(160 clinical hours)(2CR) This is an advanced course and clinical laboratory experience in the principles and procedures of Immunohematology. It is an online supported, off-campus clinical laboratory experience taught by clinical faculty. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices and medical laboratory technician professionalism are included.
Prerequisites: MLTK 1500, MLTK 1600, MLTK 1700, MLTK 2500, MLTK 2600, MLTK 2650 and MLTK 2700. Access to computer technology and internet services.

MLTK 2974 Clinical Practicum: Microbiology

(160 clinical hours)(2CR) This is an advanced course and clinical laboratory experience in the principles and procedures of microbiology. It is an online supported, off-campus clinical laboratory experience taught by clinical faculty. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices and medical laboratory technician professionalism are included.
Prerequisites: MLTK 1500, MLTK 1600, MLTK 1700, MLTK 2500, MLTK 2600, MLTK 2650 and MLTK 2700. Access to computer technology and internet services.

MLTK 2976 Clinical Practicum: Serology

(80 clinical hours)(1CR) This is an advanced course and clinical laboratory experience in the principles and procedures of serology. It is an online supported, off-campus clinical laboratory experience taught by clinical faculty. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices and medical laboratory technician professionalism are included.
Prerequisites: MLTK 1500, MLTK 1600, MLTK 1700, MLTK 2500, MLTK 2600, MLTK 2650 and MLTK 2700. Access to computer technology and internet services.

MLTK 2977 Clinical Practicum: Urinalysis and Body Fluids

(80 clinical hours)(1CR) This is an advanced course and clinical laboratory experience in the principles and procedures of urinalysis and body fluid analysis. It is an online supported, off-campus clinical laboratory experience taught by clinical faculty. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices and medical laboratory technician professionalism are included.
Prerequisites: MLTK 1500, MLTK 1600, MLTK 1700, MLTK 2500, MLTK 2600, MLTK 2650 and MLTK 2700. Access to computer technology and internet services.

MLTK 2978 Clinical Practicum: Medical Laboratory Technician Professionalism *(1L)(1CR)*

This is an advanced course and clinical laboratory experience in the principles, procedures, and practice of the medical laboratory technician professional. It is an on-line supported, off-campus clinical laboratory experience taught by clinical faculty. Emphasis is on the career
planning, continued professionalism, patient and interdisciplinary interaction, cultural diversity, phlebotomy technical skills, and clinical laboratory testing workflow. This course will be offered in the spring and fall terms to coincide with the MLTK clinical rotation.
Prerequisites: Prerequisites: MLTK 1500, MLTK 1600, MLTK 1700, MLTK 2500, MLTK 2600, MLTK 2650 and MLTK 2700. Access to computer technology and internet services.

MOLB 2210 General Microbiology

(3L, 3LB)(4CR) [E] The characteristics of microorganisms will be studied in lecture and laboratory. Lecture will focus on microbiology physiology and

classification. Laboratory exercises will emphasize techniques used to culture, isolate and diagnose various types of microorganisms.

MOLB 2220 Pathogenic Microbiology

(3L, 4LB)(4CR) [E] A study of disease-producing microorganisms and the laboratory techniques used in the study of these organisms. (Spring semester.)
Prerequisites: MOLB 2210.

MOLB 2240 Medical Microbiology

(3L, 3LB)(4CR) A study of microorganisms, focusing microbial diversity, microbial physiology, identification, medical significance, basics of immune systems, epidemiology and the laboratory techniques used to study these microorganisms.
Prerequisites: A passing grade in BIOL 1000 or BIOL 1010 or the permission of the instructor. An understanding of general biological and chemical concepts is needed.

MUSC 0200 Convocation

(0CR) Convocation is a twice-monthly recital hour for students and guest performers. In addition to the scheduled convocations, students will be required to attend 10 additional approved concerts. Grading will be S/U. Completion of four semesters with a grade of S is required for all music majors pursuing a music degree. Full-time music students shall enroll in Convocation as long as they remain music majors.
Prerequisites: music majors only.

MUSC 1000 Introduction to Music (FA) *(3L)(3CR) [E]*

A one-semester course in music appreciation designed for students with little or no music background. Covers many genres of music to aid students in developing listening skills.

MUSC 1003 - Historical Perspectives in Music I

(3L)(3CR) The first semester of a three semester sequence covering the study of composers and music repertoire from antiquity to 1600.

MUSC 1008 - Intro to Film and Video Game Music (FA) *(3L, 2LB)(3CR)*

This course examines the history, musical elements, and musical styles of film and video game music. Beginning in the late 1800s with silent films and continuing to the present day, this course provides an overview of the major stylistic trends and musical influences that led to the development of film and video game scoring as a vital and living dramatic art form. Throughout the course, the interaction between sound, image, and narrative is explored. Spring semesters

MUSC 1010 Music Fundamentals *(2L)(2CR)*

A general background course in the vocabulary and terminology of music, the structure of the melodic line through scales and solfeggio, the relationship of keys through the key circle, fundamental chord structure, rhythm, and the survey of smaller forms in music.

MUSC 1024 The Art of Mixing *(1L, 2LB)(2CR)*

Become familiar with the steps and techniques necessary to create an audio mix that is pleasing to listeners. Learn the different steps required in the mixing process including techniques for balancing and blending music by utilizing faders, equalizers, compressors, and digital audio workstation (DAW) controls.
Prerequisites: Freshman standing preferred. Community and BOCES students welcome.

MUSC 1025 Introduction to Music Education

(2L)(2CR) This course is designed to help music majors explore music education. It is a required course for admission into the teacher education program. Course materials will explore: motivation for teaching; the structure of the American public school and public school music programs; the changing nature of education; and an introduction to the historical and philosophical foundations of music education. A field experience is required.
Prerequisites: music majors only, or permission of the instructor.

MUSC 1030 Written Theory I *(3L)(3CR) [E]*

This course introduces fundamental elements of music, including: the nature of sound, pitch, and timbre; music notation; pentatonic scales and diatonic modes; intervals, triads, and chord progressions; meter, rhythm, and hypermeter; and melodic structure and song forms. Required for all music majors.

MUSC 1035 Aural Theory I *(2LB)(1CR) [E]* Instruction in how to hear (dictate) and read (sight-sing) music fluently. Includes simple and compound meters; basic rhythms (beats and first division of the beat); and diatonic melodies in major and minor featuring stepwise motion and skips within the tonic and dominant triads. This course is designed to be taken with MUSC 1030; MUSC 1010 may also be required as a co-requisite course depending on the results of the placement exam. Required for all music majors.

MUSC 1040 Written Theory II *(3L)(3CR) [E]* A continuation of MUSC 1030. Covers symmetrical, synthetic, and hybrid scales; seventh chords and chord extensions; harmonic function, chord substitutions, and reharmonization; voice-leading, keyboard voicings, and bass lines; and melodic embellishment. Required for all music majors.
Prerequisites: MUSC 1030.

MUSC 1045 Aural Theory II *(2LB)(1CR) [E]* A continuation of MUSC 1035. Instruction in how to hear (dictate) and read (sight-sing) music fluently. Includes continued instruction in rhythms (second division of the beat and syncopation); diatonic and pentatonic melodies in major, minor, and modes featuring stepwise motion and skips within diatonic triads and seventh chords; and diatonic harmonies. This course is designed to be taken with MUSC 1040. Required for all music majors.
Prerequisites: MUSC 1035.

MUSC 1070 Music Composition *(.5 Studio)(1CR)(8MAX)* 30-minute weekly private instruction in music composition for majors and non-majors. Majors have a juried piece performed at a convocation, recital, or concert. Course content changes each semester.
Prerequisites: Instructor's permission required.

MUSC 1080 - Baritone Horn I *(Studio)2.0* 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required.

MUSC 1090 Bassoon I *(Studio)(1-2CR)(Max 8)* 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor Permission Required.

MUSC 1100 Cello I *(Studio)(1-2CR)(Max 8)* 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required.

MUSC 1110 Clarinet I *(Studio)(1-2CR)(Max 8)* 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor Permission Required.

MUSC 1120 Double Bass I *(Studio)(1-2CR)(max 8)* 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required.

MUSC 1130 Flute I *(Studio)(1-2CR)(Max 8)* 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor Permission Required.

MUSC 1140 French Horn I *(Studio)2.0* 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required.

MUSC 1150 Guitar I

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 1160 Harp I

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required

MUSC 1170 Oboe I

(Studio)2.0 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor Permission Required.

MUSC 1180 Organ I

(Studio)(1-2CR)(Max8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites**: Instructor permission required.

MUSC 1190 Percussion I

(Studio)(1-2CR) (Max 8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor Permission Required.

MUSC 1200 Piano I

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 1210 Saxophone I

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor Permission Required.

MUSC 1220 Trombone I

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 1230 Trumpet I

(Studio)(1-2CR)(max 8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 1240 Tuba I

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 1250 Violin I

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 1260 Viola I

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 1270 Voice I

(Studio)(1-2CR) (Max 8) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required.

MUSC 1290 Class Piano I

(2LB)(1CR) Group instruction for music majors concurrently enrolled in MUSC 1030. Designed to equip students with the practical aspects of keyboard fundamentals including technique, rhythm, note reading, scales, intervals, and primary chords.
Prerequisites: Non-music majors must have the permission of the instructor.

MUSC 1295 Class Piano II

(2LB)(1CR) A continuation of MUSC 1290 for the music majors concurrently enrolled in MUSC 1040. Designed to equip students with late-elementary keyboard activities including improvisation, harmonization, sight-reading, primary and secondary chords, major and minor scales, solo and ensemble literature. Non-music majors must have the permission of the instructor.
Prerequisites: MUSC 1290, or permission of the instructor.

MUSC 1378 College Band (FA)

(3LB)(1CR) (Max 4) Open to all students with experience on brass, woodwind, and percussion instruments. Ensemble prepares standard wind band repertoire for one concert performance per semester. Course content changes each semester.
Prerequisites: permission of the instructor.

MUSC 1380 Wind Ensemble

(3LB)(1CR) (Max 6) The goal of this music performance course is to provide the opportunity for you as a woodwind, brass, or percussion performer to come together with other like-minded (and like-spirited) musicians in an ensemble setting to rehearse and perform standard and emerging literature from the wind ensemble repertoire. In this course we will focus on overall concepts of self and ensemble expression, engagement, participation, and performance. We will also address musical concepts of ensemble and individual balance, blend, intonation, phrasing, dynamics, articulation, tone, rhythmic precision, color, and ensemble clarity. We are going to LISTEN – to ourselves, to each other, and to the music. Course content changes each semester.
Prerequisites: Audition or instructor permission.

MUSC 1390 Jazz Ensemble I (FA)

(3LB)(1CR) (Max 6) This laboratory group is open to all students with previous instrumental music experience. The jazz ensemble performs at assemblies, concerts, shows, and on tour. Course content changes each semester. This is an ensemble course and since the content is different each semester, may be repeated up to 6 times for credit.
Prerequisites: Experience in music, preferably jazz. Students should be proficient on one of the following instruments: saxophone, trumpet, trombone, guitar, bass, drums, or piano.

MUSC 1400 Collegiate Chorale (FA)

(3LB)(1CR)(Max 4) [E] A large non-auditioned mixed choir open to all students regardless of their field of study. Emphasis is on a wide variety of choral literature, including music of diverse cultures. The choir rehearses once each week and performs 1-2 times per semester. Course content changes each semester. Fall and Spring

MUSC 1410 Vocal Ensemble

(3LB)(1CR)(Max4) A small vocal ensemble open to all students. The course provides an opportunity to study and perform a variety of diverse popular styles, and culminates in a number of performances in various venues. An audition determines the final roster of ensemble members. Course content changes each semester.
Prerequisites: audition with the instructor.

MUSC 1412 Chamber Singers

(3LB)(1CR)(Max4) A selected mixed chamber ensemble of 20-35 voices open to all students on campus regardless of their field of study. An audition with the instructor determines the final list of singers. Credit is given for attendance at four weekly rehearsals and concert performances. Emphasis is on a wide variety of choral literature appropriate for chamber choirs, including music from diverse

cultures, musical time periods, and language. Course content changes each semester. Fall and Spring
Prerequisites: Audition with Instructor

MUSC 1415 Intro to Music Technology

(2L,2LB)(3CR) Introduction to Music Technology provides an overview to a broad range of technology-based music applications and concepts. Each class will include both lectures and "Hands-on" skill development with music hardware, software, and apps. The student will be exposed to various ways technology is used in performance, practice, teaching, recording, publishing, and sharing music.

MUSC 1425 History of Rock Music (FA)

(3L)(3CR) This course examines the social, cultural, and stylistic history of rock n' roll music, beginning with important musical precedents such as blues and jazz, and progresses through punk and metal into current global varieties of rock n' roll. Throughout the history, cultural and social contexts are presented and analyzed for their impact on the art form.

MUSC 1426 History of American Popular Music (HU)

(3L)(3CR) History of American Popular Music traces the roots of American popular music from its inception during the 16th century until the present day. The course will include a discussion of the genres of blues, jazz, and rock and how each of these grew from the musical tradition that preceded it. Additionally, the course will explore the unique geography and cultural influences that helped inspire each of the genres discussed in the course. All

MUSC 1435 Audio Recording

(2L,2LB)(3CR) Students develop a basic understanding of recording principles and techniques. Students examine the principles of sound, the operation of studio equipment, and the systems, operation, and protocol of the modern digital recording studio. Contemporary Digital Audio recording as a starting point, students progress through such subjects as mixers, multi-track recording, effects processors, and microphones. Techniques of Placement, Selection, Gain Structure, and Monitoring will be applied.

MUSC 1440 Chamber Orchestra (FA)

(2LB)(1CR)(Max 4) [E] A performance class open to all string players on campus. This course is designed to cover a variety of literature from primarily the Baroque era. Open to all students on campus, BOCES students and community members regardless of their field of study. Credit is given for attendance at the two weekly rehearsals and concert performances. Emphasis is placed on the study of stylistic concerns of string performance including bowings, articulations, dynamics and ensembles. Course content changes each semester.
Prerequisites: permission of the instructor.

MUSC 1480 Chamber Music I: (Subtitle)

(2LB)(1CR) (Max 4) [E] Designed to provide students with training in the ideal medium of chamber music (small ensembles, such as trio, string quartet, etc...), where they can apply and integrate all elements of their musical knowledge. These include, but are not limited to, rhythm, intonation, tone production, blend, musical interpretation, concept of style, etc... Subtitle will vary in accordance with student needs.
Prerequisites: permission of the instructor.

MUSC 1500 Introduction to Digital Audio

(2L)(2CR) This course is an introduction to digital audio workstation software application. Basic D.A.W. principals, including how to complete a session project from initial set up to final mix-down are covered. Topics also include how to record, edit, and mix music and Musical Digital Interface (MIDI) tracks within the Digital Audio application. Fall

MUSC 2030 Written Theory III

(3L)(3CR) [E] A continuation of MUSC 1040. Covers two- and three-voice counterpoint; common classical schemata, including cadences, sequences, and the Rule of the Octave; the nature of chordal inversion, harmonic dissonance and resolution, chromatic alterations, and modulation; and simple classical forms. Required for all music majors.
Prerequisites: MUSC 1040.

MUSC 2035 Aural Theory III

(2LB)(1CR) [E] A continuation of MUSC 1045. Instruction in how to hear (dictate) and read (sight-sing) music fluently. Includes continued instruction in rhythms (supertriplets and hemiola); chromatic melodies in major and minor featuring stepwise motion and chromatic skips; and

chromatic harmonies. This course is designed to be taken with MUSC 2030. Required for all music majors.
Prerequisites: MUSC 1045.

MUSC 2040 Written Theory IV *(3L)(3CR) [E]* A continuation of MUSC 2030. Covers enharmonicism, linear chromaticism, and basic neo-Riemannian theory; pitch centricity, symmetry, and atonality; basic set theory; and other rhythmic, formal, melodic, and harmonic processes of 20th- and 21st-century classical music. Required for all music majors. Spring
Prerequisites: MUSC 2030.

MUSC 2045 Aural Theory IV *(2LB)(1CR) [E]* A continuation of MUSC 2035. Instruction in how to hear (dictate) and read (sight-sing) music fluently. Includes continued instruction in meter and rhythms (asymmetric and changing meters, quintuplets, and septuplets); melodies and harmonies featuring modulation; melodies featuring whole tone and octatonic scales and other common non-diatonic pitch collections; and aural recognition of musical forms. This course is designed to be taken with MUSC 2040. Required for all music majors.
Prerequisites: MUSC 2035.

MUSC 2050 Historical Perspectives in Music II *(3L)(3CR)* Continuation of materials and topics covered in Historical Perspectives in Music I. Study of composers and repertoire from ca. 1600 to 1800.

MUSC 2055 Historical Perspectives in Music III *(3L)(3CR)* Continuation of material and topics covered in Perspectives in Music II. Study of composers and repertoire from 1800 to the present.

MUSC 2071 Vocal or Instrumental *(1-2L)(1-2CR)* 30- or 60- minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester.

MUSC 2080 Baritone Horn II *(Studio)2.0* 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required.

MUSC 2090 Bassoon II *(Studio)2.0* 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor Permission Required

MUSC 2100 Cello II *(Studio)(1-2CR)(Max 8)* 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required

MUSC 2110 Clarinet II *(Studio)(1-2CR)(Max 8)* 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor Permission Required.

MUSC 2120 Double Bass II *(Studio)2.0* 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required

MUSC 2130 Flute II *(Studio)(1-2CR)(Max 8)* 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson

is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor Permission Required.

MUSC 2140 French Horn II

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 2150 Guitar II

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 2160 Harp II

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required

MUSC 2170 Oboe II

(Studio)(1-2CR) 30- or 60-minute weekly private instruction in the specific instrument for majors and non-majors. Majors attend scheduled studio classes and perform a final jury. A course fee is assessed. Course content changes each semester. **Prerequisites**: Instructor Permission Required.

MUSC 2180 Organ II

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 2190 Percussion II

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor Permission Required

MUSC 2200 Piano II

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 2210 Saxophone II

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester. **Prerequisites**: Instructor Permission Required.

MUSC 2220 Trombone II

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester. **Prerequisites:** Instructor permission required.

MUSC 2230 Trumpet II

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content

changes each semester.
Prerequisites: Instructor permission required.

MUSC 2240 Tuba II

(Studio)(1-2CR)(Max 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required.

MUSC 2250 Violin II

(Studio)(1-2CR)(max 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required

MUSC 2260 Viola II

(Studio)2.0 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required.

MUSC 2265 Music Education Portfolio Review

(S/U) This course is required for completion of the A.F.A. in Music Education. It serves as a capstone review and will assess competency in oral and written communication skills, sight singing, and organizational skills. Completion is in the last semester of the sophomore year. Offered satisfactory/unsatisfactory only. Offered spring semester only
Prerequisites: MUSC 1025, MUSC 2030, MUSC 2035

MUSC 2270 Voice II

(Studio)(1-2CR) (Max. 8) 30- or 60-minute weekly private instruction in the specific instrument. Scheduled studio classes and final jury are required. The 30-minute lesson is open to non-majors. The 60-minute lesson is open to non-majors with the permission of the instructor. A course fee is assessed. Course content changes each semester.
Prerequisites: Instructor permission required.

MUSC 2290 Class Piano III

(2LB)(1CR) A continuation of MUSC 1301 for music majors currently enrolled in MUSC 2030. Designed to equip students with intermediate-level skills including improvisation, harmonization, sight reading, chord progressions, all scales and arpeggios, Baroque and Classic keyboard styles. Non-music majors must have permission of the instructor.
Prerequisites: MUSC 1295.

MUSC 2295 Class Piano IV

(2LB)(1CR) A continuation of MUSC 2302 for music majors concurrently enrolled in MUSC 2040. Designed to introduce the student to accompanying techniques, instrumental and vocal score reading, C clefs, late intermediate skills including transposition, improvisation, harmonization, sight reading, chord progressions, all scales and arpeggios, romantic and 20th century keyboard styles. Non-music majors must have permission of the instructor.
Prerequisites: MUSC 2290.

MUSC 2320 Diction for Singers I

(2L)(2CR) [E] A course to facilitate proper enunciation in English and Italian and help voice students with their repertoire of art songs and operatic arias.

MUSC 2395 Piano Proficiency

(0CR) The Piano Proficiency Examination is required of all music majors seeking the Associate of Arts or the Associate of Fine Arts. A student who passes the Class Piano sequence (MUSC 1300, 1301, 2302, 2303) with a "B" or better for each course must still register for MUSC 2395, but will not be required to take the exam and will receive a passing grade, "S," for the course. Every semester

MUSC 2410 Techniques For Live Sound

(2L)(2CR) Students receive a practical orientation to live sound reinforcement for voice and music. We will study a broad range of concepts and procedures including: basic sounds and acoustics, microphone design and application, sound system design, setup and testing

procedures, Front of House (FOH) and Monitor mixing on digital consoles, signal processing and live stereo and multitrack recording with various digital recording devices. Lab activities focus on project-based learning and provide "hands-on" skill development with both music hardware and software in the service of live sound. Students are expected to crew on at least one live event.

MUSC 2415 Sound Reinforcement I *(2L)(2CR)* Introduction to the theory, techniques, and equipment used in sound recording and reinforcement. Topics include acoustics, microphones, recorders, editing, mixing, and effects. (Fall semester.)

MUSC 2420 Sound Reinforcement II*(2L)(2CR)* A study of the basic concepts, equipment and techniques used in the operation of an audio recording console. Topics include console function, mixing, effects, microphone placement and choice, patchbay, and console flow logic. (Spring semester.)
Prerequisites: MUSC 2415.

MUSC 2435 Advanced Audio Recording *(2L,2LB)(3CR)* Students advance their recording skills through a project-based curriculum. Students use the computer to create an integrated recording, editing, and mixing environment extending into the areas of digital mastering, signal processing, and post-production. Students explore the internet and distribution services for the transmission of their production.

MUSC 2465 Directed Studies in Music: (Subtitle) *(1-3CR) (Max. 6)* Individualized investigation of selected topics under the supervision of a faculty member.
Prerequisites: permission of the instructor.

MUSC 2475 Independent Study Audio/Recording *(1-3CR)* Students will independently produce and engineer a recording project.
Prerequisites: completion of or concurrent enrollment in MUSC 2415, MUSC 2420, or permission of the instructor.

NURS 1100 Professional Nursing Care in Health Promotion *(5L, 15LB)(10CR)* This semester introduces the learner to the concepts of health promotion, safety, clinical judgment, leadership, patient centeredness, and professionalism. Health promotion includes learning about self-health and health in children, adults, older adults, and the family experiencing a normal pregnancy and delivery. Learners will value evidence about healthy lifestyle patterns and risk factors for disease and illness, apply growth and development theory, develop therapeutic relationships, conduct an age appropriate and culturally sensitive health assessment, and promote health using the nursing process and standards of professional nursing. Guided learning experiences in various community settings and facilities are correlated with classroom and laboratory instruction.
Prerequisites: Admission to the nursing program.
Concurrently: ZOO 2025 (if not taken previously).

NURS 1200 Professional Nursing Care of the Patient with Chronic Illness *(5L, 15LB)(10CR)* This semester introduces the learner to the patient and family with chronic illness using the concepts of health promotion, safety, clinical judgment, leadership, patient centeredness, and professionalism. Learners will use caring behaviors, therapeutic communication and advocacy when providing care to patients with chronic illness across the lifespan. The learner will identify the roles and values of the members of the interprofessional healthcare team. The patient-and family-lived experience is emphasized. Guided and/or precepted learning experiences in various community settings and facilities are correlated with classroom and laboratory instruction.
Prerequisites: NURS 1100
Concurrently: Concurrent enrollment in PSYC 1000 (if not taken previously).

NURS 1510 Nursing Assistant *(2.5L, 4.5LB)(4CR)* Concepts and skills of caring for residents of long-term care facilities. Meet professional standards that enable student to sit for the certification exam and licensure via Wyoming State Board of Nursing.
Prerequisites: American Heart Association Healthcare Provider Cardiopulmonary Resuscitation (BLS) current PPD (TB skin test) and instructor's permission. All medical conditions requiring accommodations must be approved by instructor. Must be 16 years of age

NURS 2300 Professional Nursing Care of the Patient with Acute Illness

(5L, 15LB)(10CR) This semester introduces the learner to the patient and family with acute illness using the concepts of health promotion, safety, clinical judgment, leadership, patient centeredness, and professionalism. Learners will use caring behaviors, therapeutic communication and advocacy when providing care to patients with acute illness across the lifespan, including acute complication of pregnancy and delivery. The learner will facilitate the effectiveness of the interprofessional healthcare team. The patient-and family-lived experience is emphasized. Guided and/or precepted learning experiences in various community settings and facilities are correlated with classroom and laboratory instruction.
Prerequisites: NURS 1200
Concurrently: ENGL 1020 OR ENGL 2005 OR ENGL 2020/COM2 (if not taken previously)

NURS 2400 Professional Nursing Care of the Patient with Complex Illness

(5L, 15LB)(10CR) This semester introduces the learner to the patient and family with complex illness using the concepts of health promotion, safety, clinical judgment, leadership, patient centeredness, and professionalism. This semester is focused on the vulnerable patient which could include multisystem acute and chronic disease processes and physiological, mental and socioeconomic factors that put the patient at risk, including complication of pregnancy and delivery. The patient-and family-lived experience is emphasized. Guided and/or precepted learning experiences in various community settings and facilities are correlated with classroom and laboratory instruction.
Prerequisites: NURS 2300
Concurrently: POLS 1000 (if not taken previously)

OCTH 2000 Introduction to Occupational Therapy

(2L)(2CR) This course is designed to introduce students to the occupational therapy profession. As the history, scope of practice, objectives and functions of occupational therapy are addressed, students will affirm their academic decision.

ORTM 1050 Natural and Cultural Resources of the West

(3L)(3CR) The American West is an attraction for visitors, largely due to its unique sense of place, blend of people and culture, history, and natural resources. Within the context of outdoor recreation and cultural/historical tourist attractions, students will examine diverse natural and cultural resources

ORTM 2000 Foundations of Customer Service and Hospitality

(3L)(3CR) Customer service and hospitality are fundamental to providing high-quality services. This course examines critical elements of excellent customer service in the tourism industry, including transportation, accommodation, food and beverage, and attractions. Students will develop communication skills in customer service, self-presentation, and interpersonal interactions, including international and cultural communication.

ORTM 2050 - Program Planning, Design, and Delivery

(3L)(3CR) Design, delivery, and marketing of programs to diverse and inclusive audiences. Students will utilize tools, analytics, and techniques in both the direct supply and facilitation of a planned experience. Students will design and implement a program to a non-peer group.

ORTM 2410 Outdoor Leadership

(3L)(3CR) Designed to increase knowledge and competencies related to leading others in the outdoors. There is a significant focus on self-awareness, judgment, and decision-making. The specific skills and theories students learn in the class provide a foundation for other leadership endeavors.

PEAC 1001 Health & Wellness (HW)

(2LB)(1CR) This physical education activity course is designed as an online laboratory to allow each student the benefit of setting his or her own schedule. Emphasis in a variety of basic areas of physical fitness: program development, muscle strength, muscle endurance, flexibility, and cardiovascular conditioning and nutrition. The student is responsible for meeting the minimum exercise standards in order to receive credit. This would meet the requirements for the PE credit

PEAC 1015 Beginning Scuba (HW)

(2LB)(1CR) Safe diving procedures, proper use of scuba equipment, and dive tables. The course is presented in three segments:

lectures, pool, and open water dives. Upon satisfactory completion of the course, the student will be certified in accordance with the Professional Association of Diving Instructors (PADI) for open water dives.
Prerequisites: instructor permission only.

PEAC 1020 Fitness Training (HW) *(2LB)(1CR)* Students will learn how to test their fitness, set goals, and develop a fitness program to specifically target their fitness goals. Students will participate in professionally designed workouts as well as their own created workouts. Additional course topics include basic nutrition, muscular anatomy, and more. Students wishing to use the Casper College Fitness Center should sign up for the in class option and those planning to participate off campus should register for the online section.

PEAC 1030 Dance Aerobics *(2LB)(1CR)* A fitness class using a variety of exercises that stimulates heart and lung activity for a time period sufficiently long to produce beneficial changes in the body. Strength development by weight training is also included.

PEAC 1041 Basic Self-Defense (HW) *(2LB)(1CR)* A basic course in self-defense covering some home self-defense breakaway techniques and how to handle general distress situations.

PEAC 1042 Basic Self-Defense II *(2LB)(1CR)* Continuation of basic self-defense. Combination strikes, counter techniques, throws and falls, advanced kicks, takedowns and further awareness of personal safety issues.

PEAC 1044 Beginning Tae Kwon Do (HW) *(2LB)(1CR)* A basic course in the art of Tae Kwon Do teaches the mental training and techniques of unarmed combat for self-defense.

PEAC 1048 Kickboxing II *(2LB)(1CR)* This kickboxing course is a martial arts fitness class. Students learn proper kicking and punching techniques and self-defense skills. The course provides students an opportunity to increase martial arts skills, flexibility, and improved cardiovascular performance.

PEAC 1050 Beginning Tennis (HW) *(2LB)(1CR)* Beginning co-ed activity class of tennis basic skills and techniques.

PEAC 1253 Beginning Bowling (HW) *(2LB)(1CR)* A basic activity class providing background and instruction in the lifetime sport of bowling. Instruction is given with emphasis on developing skills.

PEAC 1255 Beginning Golf (HW) *(2LB)(1CR)* A basic activity class providing background in golf. Golf instruction is given at the driving range and in the gymnasium with emphasis on beginning skill level.

PEAC 1266 Trapshooting (HW) *(2LB)(1CR)* Designed to acquaint students with firearm safety, gun anatomy, reloading techniques, and in trapshooting techniques and rules. Students provide their own ammunition and pay for the clay birds used.

PEAC 1267 Advanced Trapshooting *(2LB)(1CR)* Designed for the more accomplished trapshooter. Singles, doubles, modified clay bird, and handicap shooting will be stressed. Gun safety and reloading techniques. Students provide their own ammunition and pay for the clay targets used.
Prerequisites: PEAC 1266, or permission of the instructor.

PEAC 1270 Pickleball (HW) *(2LB)(1CR)* Pickleball is a fast-paced, net game with similarities to tennis, badminton, table tennis, & racquetball. The course covers rules, strategies, technique, preparation for play, and includes extensive active practice and play with two, three, or four people.

PEAC 1271 Weight Loss Conditioning (HW) *(2LB)(1CR)* Promotes fitness and safe weight loss techniques through exercise and diet.

PEAC 1279 Tae Kwon Do II *(2LB)(1CR)* Tae Kwon Do is a martial art that teaches the mental training and techniques of unarmed combat for self-defense as well as health involving the skilled application of punches, kicks, blocks, and dodges with bar hands and feet to neutralize opponents.

PEAC 1281 Fly Fishing (HW) *(2LB)(1CR)* This is an introductory course in techniques and skills essential to fly-fishing. Class will be conducted in the classroom, gym and the outdoor environment. The course will include field trips to local fishing areas. All fish caught during class will be released.

PEAC 1294 Beginning Yoga (HW) *(2LB)(1CR)* A basic course in yoga covering the yoga postures, some breath work, meditation and relaxation. A basic yoga class will go a long way toward retaining optimal health.

PEAC 1460 Modern Dance I (HW) *(2LB)(1CR)* This course is an introduction to the principles and techniques of Modern Dance. Dancers will focus on technique, terminology, and the execution of the basic steps, as well as the discovery of movement in space and time. This class will serve the student as a study in exploration of the basic ideas of Modern Dance.

PEAC 1680 Extreme Fitness (HW) *(2LB)(1CR)* This course is designed to give students an understanding of the importance of physical fitness, cardiovascular conditioning, muscular strength, muscular endurance and flexibility.

PEAC 1681 Extreme Fitness II (HW) *(2LB)(1CR)* This course is designed to give students an understanding of the importance of physical fitness, cardiovascular conditioning, muscular strength, muscular endurance and flexibility, and its relevance to the fire service. We will focus on developing strength through weight training Spring Only

PEAC 2002 Physical Fitness and Wellness II *(2LB)(1CR)* This physical education activity course is open to all students. It is designed as an open laboratory to accommodate each student's needs. Emphasis is placed in three areas of physical fitness: strength, flexibility, and cardiovascular endurance. Pin select weight machines will be used in circuit training concept to develop more effectively one's level of physical fitness. Free weights are also available. Orientation for the class is required.

PEAC 2003 Physical Fitness and Wellness III *(2LB)(1CR)* This physical education activity course is open to all students. It is designed as an open laboratory to accommodate each student's needs. Emphasis is placed in three areas of physical fitness: strength, flexibility, and cardiovascular endurance. Pin select weight machines will be used in circuit training concept to develop more effectively one's level of physical fitness. Free weights are also available. Orientation for the class is required.

PEAC 2004 Physical Fitness and Wellness IV *(2LB)(1CR)* This physical education activity course is open to all students. It is designed as an open laboratory to accommodate each student's needs. Emphasis is placed in three areas of physical fitness: strength, flexibility, and cardiovascular endurance. Pin select weight machines will be used in circuit training concept to develop more effectively one's level of physical fitness. Free weights are also available. Orientation for the class is required.

PEAC 2005 Personal Fitness *(2LB)(1CR)* Audit only course. Designed as open laboratory to accommodate each student's needs. Emphasis on strength, flexibility, and cardiovascular endurance. Universal equipment used in circuit training concept. Free weights also available.

PEAC 2007 Express Fitness (HW) *(2LB)(1CR)* This physical education activity course is designed as an open laboratory to allow each student the benefit of setting his or her own schedule. Emphasis is placed in four areas of physical fitness: muscle strength, muscle endurance, flexibility, and cardiovascular endurance. The Fitness Center contains aerobic equipment, a universal circuit, and free weights to develop more effectively one's level of physical fitness. The student is responsible for meeting the minimum exercise standards in order to receive credit. All students must complete an orientation and initial meeting prior to starting their program.

PEAC 2044 Tae Kwon Do III *(2LB)(1CR)* An intermediate course in the art of Tae Kwon Do. Teaches the mental training and techniques of unarmed combat for self-defense.
Prerequisites: PEAC 1279.

PEAC 2054 Tae Kwon Do IV *(2LB)(1CR)* An intermediate course in the art of Tae Kwon Do. Teaches the mental training and techniques of unarmed combat for self-defense.
Prerequisites: PEAC 2044.

PEAC 2084 Outdoor Living Skills (HW) *(2LB)(1CR)* An introductory course conducted in a back-country setting. Fitness Center orientation, a physical conditioning program, and classroom sessions are required prior to the trip.

PEAC 2460 Service Learning Through Physical Work *(2LB)(1CR)* Students will identify a mutually agreed upon public service or job activity that includes physical labor. With guidance from the instructor, students will complete at least 15 hours of activity and track their fitness throughout participation. Benefits of physical activity will be discussed and students will work with the instructor to identify the specific health and fitness benefits of their activity. The planned job or service activity must be approved by the instructor prior to starting the course and may require a memorandum of understanding (MOU).

PEAT 1000 Varsity I (HW) *(2LB)(1CR)* Team competition with regular practice sessions.
Prerequisites: permission of instructor.

PEAT 1005 Varsity II *(2LB)(1CR)* Team competition with regular practice sessions.
Prerequisites: permission of instructor.

PEAT 2000 Varsity III *(2LB)(1CR)* Team competition with regular practice sessions.
Prerequisites: permission of instructor.

PEAT 2005 Varsity IV *(2LB)(1CR)* Team competition with regular practice sessions.
Prerequisites: permission of instructor.

PEAT 2025 Rodeo (HW) *(2LB)(1CR) (Max. 4)* Designed to prepare rodeo athletes for competition in the nine different rodeo events. Emphasis is put on improving and developing the techniques needed to perform in the rodeo arena along with instruction in the interpretation of the rules regulating all rodeo events.
Prerequisites: must become an active NIRA member and participate in all CRMR rodeos or have instructor's approval.

PEPR 2012 Physical Education for Elementary School *(2L, 2LB)(3CR) [E]* Fundamental skills and principles of movement and the progressions as they would be presented in the elementary education program. Students have practical experience in participation and teaching. Includes rhythmics and dance, gymnastics, games, and sports skills.

PEPR 2091 Sports Officiating I *(1L, 2LB)(2CR)* For physical education majors wishing to acquaint themselves with the skills and techniques of officiating the major sports: football, basketball, volleyball and soccer.

PEPR 2100 Theory of Coaching: *(2L)(2CR)* Study of the skill analysis, strategy and training involved in coaching. Includes methods of coaching.

PEPR 2110 Foundations of Coaching *(3L)(3CR)* Provides prospective coaches with current information about scientific foundations of coaching: theory, methodology, administration, management, and psychology. Required for athletic coaching permit in Wyoming.

PEPR 2460 Field Experience (Physical Education) *(2-4LB)(1-2CR)* Thirty hours per credit of hands-on experience observing/assisting/instructing in various physical education activities: swimming, fitness, gymnastics, adaptive physical education, elementary physical education and coaching.
Prerequisites: permission of the instructor.

PHIL 1000 Introduction to Philosophy (HU) *(3L)(3CR) [E]* An introduction to some of the main problems confronting the philosophical thinker, including those concerning truth, knowledge, language, morality, the existence of God, the nature of reality, freedom, and the meaning of life. Possible solutions to these problems will be considered.

PHIL 2420 Critical Thinking *(3L)(3CR) [E]* This course introduces students to the art of critical thinking: how to analyze and construct logical

arguments. It emphasizes the importance of argumentation in every field of study. It exposes students to the methods used in evaluating arguments, inductive and deductive reasoning, fallacies, refuting arguments, and evaluating information for credibility, reliability and validity. Spring

PHTK 1000 Pharmacy Calculations I

(1L)(1CR) A review of basic arithmetic, an introduction to the metric and apothecary systems, and computation of medication dosages.
Prerequisites: Admission to the Pharmacy Technology program or permission of the instructor. Students must have an ACT score of 21 or better if out of high school less than two years, a COMPASS placement score of 40 or better in the algebra placement domain, or have a "C" or better in MATH 0920

PHTK 1600 Pharmacy Simulation Laboratory I

(2L, 4LB)(4CR) This course introduces the student to the actual working of a pharmacy. Students are introduced and allowed to train towards the performance of operational procedures in the retail pharmacy setting. May be used as CE for licensed technicians.
Concurrently: Concurrent enrollment in PHTK 1650 and PHTK 1710.

PHTK 1610 Pharmacy Simulation Laboratory II

(2L, 4LB)(4CR) This course introduces the student to the actual working of a pharmacy. Students are introduced and allowed to train towards the performance of operational procedures in the institutional pharmacy setting. May be used as CE for licensed technicians.
Prerequisites: PHTK 1600.
Concurrently: Concurrent enrollment in PHTK 1630, PHTK 1720 and PHTK 2971.

PHTK 1630 Pharmacy Calculations II

(1L, 2LB)(2CR) Application of basic mathematics as it applies to compounding and dispensing prescriptions.
Prerequisites: PHTK 1600.
Concurrently: Concurrent enrollment in PHTK 1610, PHTK 1720 and PHTK 2971 or permission of the instructor. May be used as CE for licensed technicians.

PHTK 1650 Pharmacy Law and Ethics

(2L)(2CR) Provides federal and state laws for pharmacy and sets the ethical standards for pharmacy technicians.
Concurrently: Concurrent enrollment in PHTK 1600 and PHTK 1710, or permission of the instructor. Maybe used as CE for licensed technicians.

PHTK 1710 Pharmacology I

(3L)(3CR) This course provides an introductory study of therapeutic drug categories which will involve not only a consideration of commonly used drugs, but also basic principles of pharmacology and pharmaceutics.
Prerequisites: admission to the Certificate or Associate of Science in pharmacy technology program or instructor permission.
Concurrently: Concurrent enrollment in PHTK 1600 and PHTK 1650. May be used as CE for licensed technicians.

PHTK 1720 Pharmacology II

(3L)(3CR) The course provides an introductory study of therapeutic drug categories which will involve not only a consideration of commonly used drugs, but also basic principles of pharmacology and pharmaceutics.
Prerequisites: PHTK 1710.
Concurrently: Concurrent enrollment in PHTK 1610, PHTK 1630, PHTK 2971, or permission of the instructor.

PHTK 2971 Pharmacy Experiential Training I

(2L, 6LB)(5CR) Provides the study of the theory and the practical applications of procuring, manipulating and preparing drugs for dispensing in actual pharmacy environments or college laboratory.
Prerequisites: PHTK 1000, PHTK 1600, PHTK 1650, PHTK 1710.
Concurrently: Concurrent enrollment in PHTK 1610, PHTK 1630, PHTK 1720, or permission of the instructor.

PHTK 2972 Pharmacy Experiential Training II

(2L, 6LB)(5CR) Provides practical application and integration of pharmacy skills in an actual retail pharmacy environment (on-the-job training).
Prerequisites: PHTK 1600, PHTK 1610, PHTK 1630, PHTK 1720, PHTK 2971.

PHYS 1050 Concepts of Physics (SCI)

(3L, 3LB)(4CR) [E] One semester course for those students whose curricula call for an introduction to elementary physical concepts.
Prerequisites: MATH 0900.

PHYS 1090 The Fundamentals of the Physical Universe

(3L, 2LB)(4CR) [E] One semester introduction to the physical sciences (physics and chemistry) designed only for students majoring in elementary education. (Does not qualify as a lab science for non-elementary education majors.)

PHYS 1110 General Physics I (SCI)

(3L, 3LB)(4CR) [E] First course of two-semester sequence. Introduces elementary college physics without calculus. Primarily for pre-medical, pre-dental, pre-optometry, pre-physical therapy, vocational, technical, and other students requiring insight into workings of the physical world. Includes classical mechanics, gravitation and heat. Required laboratory sessions will illustrate principles studied.
Prerequisites: MATH 1400

PHYS 1120 General Physics II *(3L, 3LB)(4CR) [E]* Follows PHYS 1110 and completes introduction to physics without calculus. Includes electricity, magnetism, optics and modern physics. Required laboratory sessions illustrate principles studied.
Prerequisites: PHYS 1110

PHYS 1310 College Physics I (SCI)

(4L, 2LB)(4CR) [E] First semester course in physics designed for those majoring in physics, engineering, mathematics, or physical sciences. Topics covered are mechanics and heat.
Prerequisites: MATH 2200.

PHYS 1320 College Physics II *(4L, 2LB)(4CR) [E]* Follows PHYS 1310 and continues introduction to physics with calculus. Includes electricity, magnetism and thermodynamics. Laboratory sessions illustrate principles studied and meaning of physical measurement.
Prerequisites: MATH 2205

PHYS 2310 Physics III: Waves and Optics

(4L, 2LB)(4CR) [E] Third-semester course primarily for majors in physics, astronomy, engineering, mathematics, and other sciences. Includes Gaussian Optics and matrix calculations, wave equations, interference, superposition principle, elementary Fourier Analysis, Fraunhofer and Fresnel Diffraction, application to optical instruments.
Prerequisites: PHYS 1320 concurrently and MATH 2205.

PHYS 2320 Physics IV: Modern Physics *(3L)(3CR)*

Fourth semester course primarily for majors in physics, astronomy, engineering, mathematics, and other physical sciences. Topics include introductory quantum mechanics, nuclear and particle physics, lasers, Planck's Blackbody Radiation, photoelectric effect, electron diffraction, wave-particle duality, deBroglie Wavelength, Bohr Atom, Heisenberg Uncertainty Principle, Schrodinger Equation, and Einstein's Special Theory of Relativity. Fall
Prerequisites: PHYS 1320 concurrently and MATH 2205.

POLS 1000 American and Wyoming Government (CNST)

(3L)(3CR) [E] The organization and nature of the American national government and Wyoming state government and their constitutional development. This course meets the statutory requirement for instruction in the constitutions of the United States and Wyoming.

POLS 1020 Issues in Foreign Relations I

(3L)(3CR) This year-long course entails an introduction to the concepts, institutions, and issues of contemporary foreign relations from the perspective of the United States. The focal point of the course are group analyses of selected prominent issues in the post-Cold War world, which will include extensive research, writing, discussions, and oral presentations of the groups' findings. Students must be full-time and degree-seeking to enroll in this class.

POLS 1030 Issues in Foreign Relations II

(3L)(3CR) (BOCES class.) This course is the second semester of the year-long seminar which entails an introduction to the concepts, institutions and issues of contemporary foreign relations from the perspective of the United States. The focal point of this course is the group research assignment.
Prerequisites: Application, POLS 1020, and permission of the instructor.

POLS 1100 Wyoming Government *(3L)(1CR) [E]* If a student successfully completes a U.S. Government or U.S. History course with a grade of C or better at another institution, this course satisfies the statutory requirement of instruction in the constitutions of the United States and Wyoming for Casper College, but does not meet requirements for the University of Wyoming.

POLS 1200 Non-Western Political Cultures *(3L)(3CR) [E]* This course gives students an appreciation of non-Western political cultures and how these cultures have created different political institutions and practices. Non-Western nations of Asia, Africa, and the Middle East are used as case studies.
Cross-listed: INST 1200

POLS 1250 Introduction to Comparative Government *(3L)(3CR)* How do foreign states deal with the numerous challenges to their stability? Do institutions affect a state's approach to solving different problems? How do these different approaches affect policy? This course introduces students to different styles of governance and compares countries from around the world with reference to their political ideology. Fall

POLS 2000 Current Issues in American Government *(3L)(3CR)* This course examines current political topics in the United States. It focuses on key public policy problems, the policy-making process and the final policy choice. Students must keep abreast of political events on a daily basis and apply basic concepts in American government to current affairs.
Prerequisites: POLS 1000, or permission of the instructor.

POLS 2128 Terrorism *(3L)(3CR)* This course studies the theories, psychologies, motives, methods, forms, and counter measures associated with terrorism in history and the 21st century.

POLS 2200 Politics of Europe *(3L)(3CR)* Examines formal and informal aspects of politics in Britain, other West European countries, and the European Union.

POLS 2290 Governments and Politics of Latin America *(3L)(3CR)* This course studies chief cultural and historical factors influencing Latin American political process by drawing on six country case studies as well as regional information. It also surveys major institutions and political patterns of the region.

POLS 2310 Intro to International Relations (HU) *(3L)(3CR)* A theoretical and practical survey of the international political system, including concepts of power and power relationships, elements of international organizations and contemporary international relations.
Cross-listed: INST 2310

POLS 2410 Intro to Public Administration *(3L)(3CR) [E]* Public administration involves the core activities of government that are performed, for the most part, by highly trained experts and specialized organizations; its purpose is the development and implementation of public policy. This broad definition encompasses a large dynamic portion of government at all three levels of the federal system, engaging even nonprofit and private enterprise. Prerequisites: POLS 1000 or permission from the instructor

POLS 2430 Parties, Interest Groups and Elections *(3L)(3CR)* Studies nature and functions of political organizations in American democracy. Discusses origins and evolution of American parties, causes of interest group development, political socialization, political participation and voting behavior, as well as activities of interest groups within American society and political system. Emphasizes current trends regarding role of parties versus interest groups. Spring
Prerequisites: POLS 1000

POLS 2450 Politics and Media *(3L)(3CR)* Examines the media's coverage of current events, governmental institutions, and electoral campaigns. Discusses the effect of media on individuals' opinions and behavior. Spring
Prerequisites: POLS 1000

POLS 2460 Intro to Political Philosophy *(3L)(3CR)* A survey of selected writings in the history of Western political theory from the classical period to the present.

POLS 2465 Directed Studies in Political Science *(1-3L)(1-3 CR)* This course will center on faculty-guided research in an area of mutual interest to the student and instructor within the political science, international studies, or pre-law majors. This course has the option of including internship experience as part of the directed studies.

POLS 2470 Internship *(3L)(3CR)* This course will differentiate from POLS 2465 Directed Study in POLS, which has been used in the past for students taking internships for credit. The 2470 number is in line with the transfer guide for POLS internships. POLS 2470 will be offered every semester.
Prerequisites: Permission of the instructor.

PSYC 1000 General Psychology (SSC) *(3L)(3CR) [E]* One semester introductory psychology course designed to familiarize the student with the major areas of psychological research. Course orientation is directed toward understanding behavior through an experimental approach. Application of course content to everyday behavior situations is emphasized.

PSYC 2000 Research Psychological Methods *(4L)(4CR)* Introduces students to some of the methods of investigating psychological questions. Exposes students to various research strategies ranging from observational to experimental, using representative laboratory exercises, lectures, readings, films and demonstrations. Requires written and oral reports. Requires extra research time outside of class.
Prerequisites: ENGL 1010, STAT 2050, and STAT 2070 or another four-hour statistic course with a lab. Earned letter grade of "C" or better is required in each course.

PSYC 2020 Positive Psychology *(3L)(3CR)* This course introduces one of the fastest growing subfields and an emerging shift in the field of psychology from pathology to strengths and resiliency. Positive psychology explores mental health as building on the best in life by seeking to fulfill the lives of healthy individuals. Course content includes research in the areas of happiness/well-being, optimism, creativity, resilience, meaning, and gratitude, as well as practical application of these and other strength-based psychological concepts.
Prerequisites: PSYC 1000 or SOC 1000.

PSYC 2050 Introductory Counseling/Clinical Theories *(3L)(3CR)* An introductory course featuring a review of the development of psychotherapy, a study of psychological concepts basic to the therapeutic process, and understanding of the major models and principles of psychotherapy.
Prerequisites: PSYC 1000.

PSYC 2080 Biological Psychology *(3L)(3CR) [E]* Introduces biological bases of behavior. Includes ethnology and comparative behavior, psychobiological development, physiological and sensory mechanisms of behavior and evolution and behavioral genetics. Presents basic structural and functional properties of the nervous system.
Prerequisites: PSYC 1000 and BIOL 1000 or equivalent.

PSYC 2155 Motivational Interviewing *(3L)(3CR)* Behavioral change is a goal of many human service professionals. This course will examine the process of how change occurs and how to apply evidence based practices to assist clients with the change process thorough the use of motivational interviewing. Through a combination of lecture, skill practice, discussion, and personal exploration, this course will serve as a 'hands on' experience for the change process.
Cross-listed: ADDN 2155

PSYC 2200 Human Sexuality *(3L)(3CR)* An interdisciplinary course designed to acquaint the student with the major factors affecting human sexuality. Relevant research is reviewed in biology, psychology, sociology, and anthropology, as well as religious and historical perspectives.
Prerequisites: Three to four credits of a 1000-level introductory psychology or biology course.
Cross-listed: Cross-listed as SOC 2200

PSYC 2210 Drugs and Behavior *(3L)(3CR) [E]* A survey of the drugs which affect behavior, emphasizing both psychotherapeutic agents and drugs with abuse potential. Includes a brief introduction to the chemistry of the brain and pharmacological aspects of each major class of psychoactive drugs will be discussed.
Prerequisites: PSYC 1000 and

three to four hours of 1000 level psychology or biology courses.

PSYC 2230 Sports and Exercise Psychology

(3L)(3CR) An introduction to the field of sport and exercise psychology that focuses on the major areas of psychological research and application regarding sports and exercise environments, processes, performance enhancement, health and well being.
Prerequisites: PSYC 1000.

PSYC 2300 Psychology of Child Development

(3L)(3CR) [E] This course offers a comprehensive exploration of the progression of child growth and development spanning from conception to childhood. The curriculum delves into significant theories, research methodologies, empirical discoveries, social and cultural variations, emotional facets, and cognitive advancements from infancy to late childhood. Additionally, the course examines the implications of these developmental aspects for policy formulation and practical application.
Prerequisites: 3-4 Credits of 1000-level introductory psychology.

PSYC 2340 Psychopathology

(3L)(3CR) [E] A general study of abnormal behaviors including types, etiology, and treatment approaches.
Prerequisites: A grade of C or better in PSYC 1000

PSYC 2380 Social Psychology *(3L)(3CR) [E]*

Social Psychology familiarizes students with the psychology of human interaction. Topics addressed include aggression, altruism, attitudes, attraction, conformity, group dynamics, perception of self and others, prejudice, social roles and social power.
Prerequisites: PSYC 1000 or equivalent.

PSYC 2390 Acquired Brain Injuries *(3L)(3CR)*

An introductory course that focuses on the major areas of research and treatment application in the field of acquired brain injuries (ABI), Various types of brain injuries, etiologies of these injuries, and treatments of these injuries will be presented.
Prerequisites: PSYC 1000, BIOL 1000 (or equivalent), HLTK 1200.

PSYC 2465 Special Problems in Psychology

(1-3L)(1-3CR) Directed study and research reserved for students who have successfully completed previous course work in psychology. A comprehensive research project or in-depth literature review is required. Topics must meet with the approval of the instructor the semester prior to initiating the course. Special problem work shall proceed under direct supervision of a Casper College psychology instructor.
Prerequisites: PSYC 2000 or concurrent enrollment, or permission of the instructor.

PSYC 2970 Cognitive Retraining Practicum

(1L, 4LB)(3CR) Supervised experience in working with individuals who have acquired brain injuries (ABI) in community based settings. Weekly on campus classes are conducted and students complete a minimum of 60 hours in off-campus practicum locations at cooperating treatment agencies/facilities. The class provides opportunities for students to gain practical field experience in working with individuals with brain injuries and to apply knowledge acquired in previous courses. The off-campus practicum time will be scheduled, structured, and supervised by a certified or licensed professional. S/U grading only.
Prerequisites: PSYC 2390, HLTK 1625, HLTK 1620, CPR and AED.

RDTK 1500 Introduction to Radiologic Technology

(4LB)(1CR) This 6-week course is designed as an orientation of the Radiologic Technology profession. Emphasis is on history, medical ethics, radiology technique and exams, radiology administration, radiation safety, certification, JRCERT, and professional organizations. Class size is limited so preference will be given to students applying to the program.

RDTK 1530 Patient Care and Management

(1L)(1CR) Orienting student health professionals into patient care methodology in the clinical environment. Emphasis is placed on the illness process and specific allied health and radiologic patient care procedures. Focus on radiation protection for patient, healthcare team, student, and ancillary personnel. Prerequisite: Acceptance into the Radiography Program.

RDTK 1580 Radiographic Positioning I

(2L, 2LB)(3CR) Positioning skills of the chest and abdomen; hand and wrist, forearm, elbow, and humerus are emphasized. Emphasis on radiation safety and X-ray photon beam energies.
Prerequisites: acceptance into the Radiography Program.

RDTK 1610 Radiographic Imaging I

(5L)(5CR) In this course, students outline the theories of radiation physics including bremsstrahlung, photoelectric effect, and Compton interactions. This includes X-ray production and the atomic theory taking place during X-ray photon creation, and during patient exposure. Students will gain an understanding of the requirements needed to create the optimal diagnostic image while minimizing radiation dose. Students will evaluate radiographic images and predict the effects that various technical factors, generator phase, mAs, kVp, accessory devices, and image receptor systems, have upon radiographic image qualities and radiation dose. Fall
Prerequisites: MATH 1400

RDTK 1640 Radiographic Imaging II

(5L)(5CR) Students will learn skills to facilitate the production of quality radiographs and analyze different modes of imaging in digital systems. Emphasis is placed on primary and secondary exposure, fluoroscopy, quality assurance, radiation safety recording media, and various equipment operations. Digital imaging acquisition, preprocessing, informatics, and MIMPS (PACS) will be covered in detail.
Prerequisites: RDTK 1610.

RDTK 1680 Radiographic Positioning II

(2.5L, 1.5LB)(3CR) Positioning skills and anatomy of the lower extremity, myelography, spine radiography and arthrography. Mobile and surgical radiographic procedures will be demonstrated when applicable.
Prerequisites: RDTK 1580.

RDTK 1710 1st Yr-Clinical Education I

(28LB/week)(2CR) This course involves a practical learning experience in the clinical radiographic environment. Students participate at pre-scheduled time periods and practice their radiographic skills for a total of 144 clinical education hours at various clinical locations. Students will be under the supervision of clinical instructors or registered radiographers during their experience. Basic skills necessary to perform entry level tasks in the clinical setting will be reviewed. Positioning skills of the chest, abdomen, hand, wrist, elbow and forearm will be covered. Radiation protection principles will be reviewed. See program policies for clinical clock hours vs credit hours description.
Prerequisites: currently passing RDTK 1580.

RDTK 1810 1st Yr-Clinical Education II

(13.5LB)(3CR) A continuation of RDTK 1710. This course involves a practical learning experience in the clinical radiographic environment. Students participate at pre-scheduled time periods and practice their radiographic skills for a total of 195 clinical education hours at various clinical locations. Students will be under the supervision of clinical instructors or registered radiographers during their experience. Skills necessary to perform entry level tasks in the clinical setting will be reviewed. Positioning skills of the shoulder, humerus, clavicle, scapula, AC joints, and lower extremities including the pelvic girdle will be covered. See program policies for clinical clock hours vs credit hours description.
Prerequisites: RDTK 1710.

RDTK 1830 Pharmacology for Radiographers

(1L)(1CR) This course is designed to introduce the radiography student to common drugs the radiographer should be familiar with and those stocked for emergency use. The course will also include an overview of the laws governing drug administration. Venipuncture procedures and skill will be reviewed.
Prerequisites: current enrollment in the radiography program.

RDTK 1910 1st Yr-Clinical Education III

(13.5LB)(3CR) A continuation of RDTK 1810. This course involves a practical learning experience in the clinical radiographic environment. Students participate at pre-scheduled time periods and practice their radiographic skills for a total of 195 clinical education hours at various clinical locations. Students will be under the supervision of

clinical instructors or registered radiographers during their experience. Skills necessary to perform entry level tasks in the clinical setting will be reviewed. Positioning skills of the spine and contrast studies will be covered. See program policies for clinical clock hours vs credit hours description.
Prerequisites: RDTK 1610 and RDTK 1810.

RDTK 1915 Introduction to Computed Tomography

(2L)(2CR) This course is designed to introduce the medical imaging student to basic aspects of computed tomography. An overview of history and technical advances related to CT, patient care and assessment specific to CT procedures, contrast media, radiation protection practices, as well as screening procedures and patient education. A basic introduction to the clinical setting will also be included.
Prerequisites: Admission to the Computed Tomography Program.

RDTK 1920 Computed Tomography Procedures I

(3L)(3CR) This course covers the anatomy and common pathology associated with computer tomography. The anatomical structures will be demonstrated in the axial, sagittal and coronal imaging planes. Scanning protocols, contrast administration, and contraindications for computed tomography of the head, neck, chest, musculoskeletal, abdomen, and pelvis will be presented. Content provides detailed coverage of procedures for CT imaging. Procedures include, but are not limited to, indications for the procedure, patient education, preparation, orientation and positioning, patient history and assessment, contrast media usage, scout image, selectable scan parameters, filming and archiving of the images. CT procedures will be taught for differentiation of specific structures, patient symptomology and pathology images studied will reviewed for quality, anatomy and pathology. CT procedures vary from facility to facility and normally are dependent on the preferences of the radiologists. Patient Care, contrast media, venipuncture, CT injection procedures, radiation safety and protection will be emphasized for each of the scanning procedures.
Prerequisites: Admission to the Computed Tomography Program, RDTK 2200.

RDTK 1925 Computed Tomography Physics and Instrumentation I

(3L)(3CR) Content is designed to impart an understanding of the physical principles and instrumentation involved in computed tomography. Physics topics covered include the characteristics of X-radiation, CT beam attenuation, linear attenuation coefficients, tissue characteristics and Hounsfield numbers application. Data acquisition and manipulation techniques, image reconstruction algorithms such as filtered back-projection will be explained. Radiation protection and ethical issues associated with CT will be discussed.
Prerequisites: RDTK 1610, RDTK 1640.

RDTK 1930 Computed Tomography Clinical I

(13.5LB/week)(3CR) Clinical education involves a practical learning experience in the patient care environment. Students participate in pre-scheduled time periods and practice their CT skills in a hospital or clinic setting. Students will be under the supervision of an experienced CT technologist. Emphasis will be placed on equipment utilization, exposure techniques, patient care, evaluation of CT procedures, evaluate image quality, radiation safety practices, contrast administration, positioning protocols and image acquisition. A specified number of clinical exam competencies will be required.
Prerequisites: RDTK 1915.

RDTK 1940 Introduction to MRI

(2L)(2CR) This course introduces the basic principles of MR safety and covers the concepts of patient management during MRI procedures. Educating patients and ancillary staff on magnet safety also is presented. Patient and magnet-related emergencies represent a unique situation to an MR technologist; recommended procedures and responsibilities of the technologist will be discussed for these situations. This content also covers MR contract agents and contraindications.
Prerequisites: Admission to the MRI Program.

RDTK 1945 MRI Clinical Education I

(13.5LB/week)(3CR) Clinical education involves a practical learning experience in the patient care environment. Students participate in pre-scheduled time periods and practice their MRI skills in a hospital or clinic setting. Students will be under the supervision of an experienced MRI technologist. Emphasis will be placed on equipment utilization, exposure techniques, patient care, evaluation of MR procedures, evaluation of image quality, MR safety practices, contrast administration, positioning protocols and image acquisition. A specified number of clinical exam competencies will be required. A total of 195 supervised clinical hours will be completed.
Prerequisites: Admission to the MRI Program, RDTK 1940.

RDTK 1950 MRI Procedures I

(3L)(3CR) This content provides the student with imaging techniques related to the head, neck, spine, chest, thorax and abdominopelvic regions. The content covers specific clinical application, coils that are available and their use, considerations in the scan sequences, specific choices in the protocols (e.g., slice thickness, phase direction and flow compensation), and positioning criteria. Anatomical structures and the plane that best demonstrates anatomy are discussed as well as signal characteristics of normal and abnormal structures. This content outlines the critical criteria relevant to acquiring high-quality images of various anatomical regions. Due to different considerations for the various regions in the body, imaging protocols vary. The student studies the variations in imaging parameters for specific body regions and the resultant effect on signal characteristics and the anatomy represented. Evaluation criteria for determining the quality of images provides MR technologists with a better understanding of what constitutes a high-quality image. In a competency-based educational system, this content is completed prior to competency examinations. Review of appropriate patient care, contrast agents, and safety considerations while working in a magnetic field will be emphasized for each procedure. Pathologies associated with the areas discussed in this course will be reviewed.
Prerequisites: Admission to MRI program, RDTK 2200.

RDTK 1955 MRI Principles I: Physics of Magnetic Resonance Imaging

(3L)(3CR) This unit provides the student with a comprehensive overview of MR imaging principles. Topics include the history of MR, nuclear MR signal production, tissue characteristics, pulse sequencing, imaging parameters/options and image formation. This course is required to understand the basic principles of MR image acquisition. The course provides information on the fundamentals of MR image acquisition. This information is useful to enable the student to maximize MR image quality by understanding the fundamentals of MR imaging. Other areas covered include: magnetism, properties of magnetism, MR system components, MR magnets (permanent, resistive, superconducting, hybrid), radio frequency (RF) systems, gradient systems, shim systems and system shielding.
Prerequisites: Admission into MRI program, RDTK 1940.

RDTK 2200 Sectional Anatomy

(2L, 2LB)(3CR) Comprehensive coverage of head, neck, thorax, abdomen, pelvis and extremities in sagittal, transverse and coronal planes. A background in imaging is highly recommended but not required.
Prerequisites: ZOO 2015, and ZOO 2025.

RDTK 2550 Mammography Fundamentals

(3L)(3CR) This course covers the anatomy, pathology, and instrumentation involved in mammographic imaging. Topics covered will include: Patient Care, preparation and education; Instrumentation and Quality Assurance; Anatomy, Physiology and Pathology; Mammographic Technique and Image Evaluation; and Breast Imaging Procedures. Procedures will be covered in depth to include exam protocol, dose considerations, special patient care issues, interventional/special examinations, and diagnostic imaging. Special exams will include Needle Localization, Breast MRI, Breast Ultrasound: imaging, biopsy or FNA, Stereotactic Procedure, Breast Implant Imaging, Ductography, and Diagnostic Work-Up. Content is designed to impart an understanding of the physical principles, technique, quality control and image evaluation involved in mammography. Analog and digital acquisition and documentation will be discussed. Image processing and display will be examined from data acquisition through post

processing and archiving.
Prerequisites: ARRT registered & licensed and acceptance into the program.

RDTK 2555 Mammography Clinical

(8LB)(2CR) Clinical education involves a practical learning experience in the patient care environment. Students participate in pre-scheduled time periods and practice their Mammography skills in a hospital or clinic setting. Students will be under the supervision of an experienced Mammo technologist. Emphasis will be placed on Mammography equipment set-up, patient care, anatomy, pathology, mass documentation, understanding image quality, radiation safety practices, position, image acquisition and Quality Control. Post processing techniques will also be included. A specified number of clinical exam competencies will be required.
Prerequisites: ARRT registered & licensed and acceptance into the program.

RDTK 2580 Radiographic Positioning III

(2.5L, 1.5LB)(3CR) Positioning skills of the cranium, sella turcica; petrous pyramids; facial bones; zygomatic arches; nasal bones; mandible; temporomandibular joints; temporal bone; optic foramen; coccyx, bony thorax, digestive, and urinary systems including a study of contract media and fluoroscopy. Pediatric studies will also be included.
Prerequisites: RDTK 1680.

RDTK 2630 Radiographic Pathology

(3L)(3CR) General principles of pathology, as well as disease processes and radiographic manifestations of specific body systems, will be covered. Portions of the course will include the study of cancer and its radiographic appearance for various anatomy. The focus will be on medical terminology, radiation safety, and implications for radiography practice. Course will also focus on ARRT Registry review prep. Fall
Prerequisites: ZOO 2015, ZOO 2025
Concurrently: RDTK 2810

RDTK 2640 Radiation Biology and Protection

(2L)(2CR) The effects of ionizing radiation on biological systems and essential radiation protection guidelines to minimize radiation exposure to the radiographer, the patient, and the public.
Prerequisites: RDTK 1610, RDTK 2710, and ZOO 2015

RDTK 2710 2nd Yr-Clinical Education IV

(28LB/week)(2CR) A continuation of RDTK 1910. This course involves a practical learning experience in the clinical radiographic environment. Students participate at prescheduled time periods and practice their radiographic skills for a total of 144 clinical education hours at various clinical locations. Students will be under the supervision of clinical instructors or registered radiographers during their experience. Skills necessary to perform entry level tasks in the clinical setting will be reviewed. Contrast studies, mammography, computerized tomography, myelography and arthrography will be emphasized. Students will also be scheduled in rotations through specialty imaging and therapeutic modalities. See program policies for clinical clock hours vs credit hours description.
Prerequisites: RDTK 1910.

RDTK 2810 2nd Yr-Clinical Education V

(22.5LB)(5CR) A continuation of RDTK 2710. This course involves a practical learning experience in the clinical radiographic environment. Students participate at pre-scheduled time periods and practice their radiographic skills for a total of 330 clinical education hours at various clinical locations. Students will be under the supervision of clinical instructors or registered radiographers during their experience. Skills necessary to perform entry level tasks in the clinical setting will be reviewed. Skull, facial bones, CT, pediatric, contrast studies, trauma, surgical and mobile procedures will be reviewed. Students will also be scheduled in rotations through specialty imaging and therapeutic modalities. See program policies for clinical clock hours vs credit hours description.
Prerequisites: RDTK 2710.

RDTK 2910 2nd Yr-Clinical Education VI

(22.5LB)(5CR) A continuation of RDTK 2810. This course involves a practical learning experience in the clinical radiographic environment. Students participate at pre-scheduled time periods and practice their radiographic skills for a total of 330 clinical education hours at various

clinical locations. Students will be under the supervision of clinical instructors or registered radiographers during their experience. Skills necessary to perform entry level tasks in the clinical setting will be reviewed. Review sessions will cover all imaging procedures in preparation for graduation and the national ARRT examination. Students will also be scheduled in rotations through specialty imaging and therapeutic modalities. See program policies for clinical clock hours vs credit hours description.
Prerequisites: RDTK 2810.

RDTK 2915 MRI Clinical Education II

(13.5LB/week)(3CR) Clinical education involves a practical learning experience in the patient care environment. Students participate in pre-scheduled time periods and practice their MRI skills in a hospital or clinic setting. Students will be under the supervision of an experienced MRI technologist. Emphasis will be placed on equipment utilization, exposure techniques, patient care, evaluation of MR procedures, evaluation image quality, MR safety practices, contrast administration, positioning protocols and image acquisition. A specified number of clinical exam competencies will be required.
Prerequisites: RDTK 1945.

RDTK 2920 MRI Procedures II *(3L)(3CR)*

This content provides the student with imaging techniques related to the musculoskeletal system, upper and lower extremities and vascular systems. The course will also present detailed content covering MRI pediatric procedures and specialized MR imaging exams to include: Magnetic resonance angiography, MR arthrography, and fMRI. The content covers specific application, coils that are available and their use, considerations in the scan sequences, specific choices in the protocols (e.g., slice thickness, phase direction and flow compensation), and positioning criteria. Anatomical structures and the plane that best demonstrates anatomy are discussed as well as signal characteristics of normal and abnormal structures. Content outlines the critical criteria relevant to acquiring high-quality images of various anatomical regions. Due to different considerations for the various regions in the body, imaging protocols vary. The student will study the variations in imaging parameters for specific body regions and the resultant effect on signal characteristics and the anatomy represented. Evaluation criteria for determining the quality of images provides MR technologists with a better understanding of what constitutes a high-quality image. In a competency-based educational system, this content is completed prior to competency examinations. Pathologies associated with the areas discussed in this course will be reviewed.
Prerequisites: RDTK 1950.

RDTK 2925 MRI Principles II: Instrumentation and Imaging *(3L)(3CR)*

This unit is designed to provide the student with a comprehensive overview of MR pulse sequences, image formation and image contrast. Pulse sequences include spin echo, inversion recovery, echo planar, parallel imaging and spectroscopy. In addition, tissue characteristics, contrast agents and post processing techniques are covered. This course provides the student with knowledge of the parameters and imaging options used to create MR images. In addition, the content introduces quality assurance measures used in maintaining image quality.
Prerequisites: RDTK 1955.

RDTK 2930 Transition from Student to Radiographer *(2L)(2CR)*

Provides the advanced student technologist an opportunity to review previously learned radiologic material and effectively prepare for the national certification examination. Résumé preparation, interviewing skills and professional organization participation will be included. Continuing personal and professional growth will be emphasized in this course.
Prerequisites: RDTK 2910.

RDTK 2935 Computed Tomography Clinical II

(13.5LB/week)(3CR) Clinical education involves a practical learning experience in the patient care environment. Students participate in pre-scheduled time periods and practice their CT skills in a hospital or clinic setting. Students will be under the supervision of an experienced CT technologist. In this second clinical course students will be expected to perform more advanced procedures in a solo capacity under supervision. Emphasis will be placed on CT technique, selection, patient care, anatomy, pathology, understanding image quality, radiation safety practices,

contrast administration, positioning and image acquisition. Post processing techniques will also be included. A specified number of clinical exam competencies will be required.
Prerequisites: RDTK 1930.

RDTK 2941 Computed Tomography Physics and Instrumentation II

(3L)(3CR) Content is designed to impart an understanding of the physical principles and instrumentation involved in computed tomography. Physics topics covered include computed tomography systems and operations will be explored with full coverage of radiographic tube configuration, collimator design and function, detector type, characteristics and functions and the CT computer and array processor. CT image processing and display will be examined from data acquisition through post processing and archiving and patient factors related to other elements affecting image quality will be explained, as well as artifact production and reduction and image communication.
Prerequisites: RDTK 1925.

RDTK 2945 Computed Tomography Procedures II

(3L)(3CR) This course covers the anatomy and common pathology associated with computer tomography. The anatomical structures will be demonstrated in the axial, sagittal and coronal imaging planes. Scanning protocols, contrast administration, and contraindications for computer tomography of the pediatric procedures will be covered in depth to include: exam protocol, radiation protection and dose considerations, special patient care issues and contrast media and injections. Pediatric exams will cover CT of the head, neck, spine, abdomen, chest, musculoskeletal system, and CT angiography. Special applications in CT will be presented. Specialized CT procedures will include breast imaging, interventional CT studies, CT fluoroscopy, PET and CT fusion, cardiac scanning, CT angiography, CT guided biopsies, virtual colonoscopy, brain and transplant studies. Radiation therapy simulation studies will also be discussed. Content provides detailed coverage of procedures for CT imaging. Procedures include, but are not limited to, indications for the procedure, patient education, preparation, orientation and positioning, patient history and assessment, contrast media usage, scout image, selectable scan parameters, filming and archiving of the images. CT procedures will be taught for differentiation of specific structures, patient symptomology and pathology. CT images studied will be reviewed for quality, anatomy and pathology. CT procedures vary from facility to facility and normally are dependent on the preferences of the radiologists.
Prerequisites: RDTK 2200, RDTK 1920.

RELI 1000 Intro to Religion (HU)

(3L)(3CR) [E] This course will introduce the major world religions and the role they play in shaping cultures and societies. The class will make use of various academic approaches to study religions emphasizing similarities and differences. Instructors will draw upon research in a range of fields, including: anthropology, history, sociology, and the humanities.

RESP 1500 Introduction to Respiratory Therapy

(3L)(3CR) Historical, governmental, and association overview of respiratory therapy. This course will introduce the student to patient assessment concepts as well as common respiratory pathologies and an introduction to respiratory pathologies. This course will introduce the student to respiratory physics. (First year summer semester.)
Prerequisites: admission into the respiratory therapy program.

RESP 1505 Cardiopulmonary Anatomy & Physiology

(2L)(2CR) This course will cover the Anatomy and Physiology of the Cardiopulmonary systems of the adult human body. (First year fall semester.)
Prerequisites: admission into the respiratory therapy program.

RESP 1507 Respiratory Therapy I

(3L)(3CR) This course will cover Oxygen supply and medical gases, as well as an overview of common respiratory pathologies. (First year fall semester.)
Prerequisites: RESP 1500 RESP 1505.

RESP 1515 Respiratory Lab I

(4LB)(1CR) This course will be the laboratory where respiratory skills are practiced, simulated and learned before using them in the clinical rotation. Subjects covered will be patient assessment, oxygen systems and administration, aerosol and humidity therapy, medication delivery, lung expansion therapy and pulmonary hygiene. (First year fall semester.)

Prerequisites: RESP 1500, RESP 1505.

RESP 1518 Respiratory Practicum I *(12LB)(3CR)*

Students will rotate to several clinical sites as well as our clinical simulation center, in order to practice skills training under direct supervision. These rotations will include patient assessment, oxygen administration, aerosol and humidity therapy, medication delivery and lung expansion therapy.
Prerequisites: RESP 1500, RESP 1505.

RESP 1523 Respiratory Pharmacology *(2L)(2CR)*

This course will cover material on respiratory specific drugs and those drugs that are commonly used in association with respiratory disease. (First year fall semester.)
Prerequisites: RESP 1500, RESP 1505.

RESP 1527 Respiratory Therapy II *(3L)(3CR)* Course

material will cover subjects of respiratory failure, and mechanical ventilation for the adult patient. All phases of mechanical ventilation will be introduced, including initiation, management and weaning. (First year spring semester.)
Prerequisites: RESP 1507, RESP 1515, RESP 1518, RESP 1523.

RESP 1535 Respiratory Lab II *(4LB)(1CR)* Course

material will include mechanical ventilation and patient monitoring, airway management, suctioning, tracheostomy care and EKG's. (First year spring semester.)
Prerequisites: RESP 1507, RESP 1515, RESP 1518, RESP 1523.

RESP 1538 Respiratory Practicum II *(16LB)(4CR)*

Continuation of skills training at our clinical sites and clinical simulation center. Additional skills in airway management and ventilator initiation will be introduced under direct supervision. Case studies will be researched and presented to the class. The student will also participate in critical thinking classes to improve their clinical decision making skills. See program handbook for clinical clock hours vs credit hours description. (First year spring semester.)
Prerequisites: RESP 1507, RESP 1515, RESP 1518, RESP 1523.

RESP 1545 Respiratory Pathophysiology *(2L)(2CR)*

This course will cover common respiratory therapy disease pathologies that require special diagnostic evaluation techniques and treatment modalities. Course subject content will include airway management, EKG's, PFT's, HBO, bronchoscopy, chest tubes and the pathophysiology of the renal system.
Prerequisites: RESP 1507, RESP 1515, RESP 1518, RESP 1505

RESP 2500 Respiratory Specialty Practicum

(12LB)(3CR) Continuation of skills training at our clinical sites, and clinical simulation center. During this clinical rotation, students will be exposed to mechanical ventilation in the adult critical care setting.

RESP 2507 Respiratory Therapy III *(3L)(3CR)* This

course will continue in the study of mechanical ventilation with emphasis on advanced modes and management as well as operational overviews of ABG drawing and analysis. Students should have an understanding of some common pathophysiologies associated with critical care. (Second year fall semester.)
Prerequisites: RESP 2500.

RESP 2510 Respiratory Pediatrics and Neonatology *(2L)(2CR)*

Course material will cover prenatal, neonatal, and pediatric respiratory care. (First year spring semester.)
Prerequisites: RESP 2500

RESP 2545 Respiratory Lab III *(4LB)(1CR)* Course

material will cover additional mechanical ventilation modalities along with ABG's drawing techniques. Clinical competencies will include newborn and pediatric respiratory care and ventilator management. The students will be required to complete NPR certification. (Second year fall semester.)
Prerequisites: RESP 2500.

RESP 2548 - Respiratory Practicum III *(16LB)(4CR)*

Continuation of skills training at our clinical sites and clinical simulation center, with an emphasis on ICU, critical care and advanced ventilator management. The student will also participate in critical thinking classes to improve their clinical decision making skills. Case studies will be researched and presented. See program handbook for clinical clock

hours versus credit hours description. (Second year fall semester.)
Prerequisites: RESP 2500.

RESP 2557 Respiratory Therapy IV *(3L)(3CR)*
Course material will cover the transitioning from student to the respiratory care professional. Students will prepare for the national board exams, with a complete comprehensive review of respiratory care. (Second year spring semester.)
Prerequisites: RESP 2507, RESP 2510, RESP 2545, RESP 2548.

RESP 2570 Respiratory Simulations *(2L)* This course will prepare students for professional conduct in the respiratory therapy profession. They will learn about state licensure requirements, yearly upkeep of continuing education requirements, testing procedures, research, specialty exams, ethics and professionalism. (Second year spring semester.)
Prerequisites: RESP 2507, RESP 2510, RESP 2545, RESP 2548.

RESP 2575 Respiratory Lab IV *(4LB)(1CR)*
Laboratory skills training for passing the advanced cardiopulmonary life support (ACLS) as well as pediatric advanced life support (PALS) tests. Introduction of advanced respiratory modalities. A research paper assignment involving an aspect of respiratory care. (Second year spring semester.)
Prerequisites: RESP 2507, RESP 1545, RESP 2545, RESP 2548.

RESP 2578 Respiratory Practicum IV *(16LB)(4CR)*
Continuation of skills training at our clinical sites, and clinical simulation center. Students will travel to a Level III nursery for clinical exposure to neonate and pediatric critical care. Emphasis will be on all aspects of ventilator management, the acute respiratory patient and preparation for the CSE portion of the RRT exam. Students will research, present and critique case studies. See program handbook for clinical clock hours vs credit hours description. (Second year spring semester.)
Prerequisites: RESP 2507, RESP 2510, RESP 2545, RESP 2548.

RETK 1500 Solar Power Systems *(2L)(2CR)* This course will introduce students to the basic concepts of various active and passive solar energy conversion technologies as they relate to other renewable energy technologies.

RETK 1505 Small Wind Turbines *(2L)(2CR)* This course is designed to examine small wind generation. Students will learn how small wind generators function, their connection to loads and distribution systems and design and application considerations. Students will also explore small wind turbine siting including potential wind energy calculations and turbine performance.

RETK 1520 Wind Power Systems *(2L, 2LB)(3CR)* This course is designed to provide students with an in-depth overview of wind power systems on the commercial size scale. The class – will explore turbine components and operations, operations of wind generating facilities, maintenance practices and system interconnect requirements.

RETK 1980 Cooperative Work Experience
(1-8L)(1-8 CR) (Max. 8) On the job training with a cooperative renewable energy business or facility. Eighty hours of work per semester earns one hour of credit.
Prerequisites: Permission of the instructor.

RETK 2500 Basic Site Planning *(3L)(3CR)* This class is designed to teach students the concepts and processes employed in evaluating and preparing sites for construction of renewable energy projects.

RETK 2530 Instrumentation
(2L, 2LB)(3CR) This course will introduce students to instrumentation systems used in the performance and condition monitoring and controlling of renewable energy technologies including wind power production, active and passive solar applications.

RETK 2550 Power Distribution
(2L, 2LB)(3CR) This course will introduce students to basic concepts in electric power distribution systems as they relate to renewable energy resources. The course will examine inter-connection equipment and process and electric power substation, transmission and distribution systems.

REWM 2000 Principles of Range Management *(2L, 2LB)(3CR) [E]* Basic principles of range management as they relate to livestock production, conservation practices and wildlife management, region vegetative types and range sites, and grazing systems and multiple range uses. Several field trips included.

RUSS 0900 Russian for Travelers *(1L)(1CR)* A course of simple Russian to help the traveler make plans, obtain tickets, order meals, and ask for and understand general information as needed for travel in a Russian-speaking country.

RUSS 1010 First Year Russian I (HU) *(4L)(4CR)* This course utilizes a multi-skill approach: listening, speaking, reading, and writing and is designed for beginners or those with a weak background in Russian. Students who want to take for credit the next course in the sequence must complete this course with a grade of "C" or better.

RUSS 1020 First Year Russian II (HU) *(4L)(4CR)* This course is a continuation of RUSS 1010 and utilizes a multi-skill approach: listening, speaking, reading, and writing and is designed for beginners or those with a weak background in Russian. Students who want to take for credit the next course in the sequence must complete this course with a grade of "C" or better.
Prerequisites: RUSS 1010 or equivalent.

RUSS 2030 Second Year Russian I *(4L)(4CR) [E]* Grammar completion and conversation with a study of authentic cultural materials in Russian.
Prerequisites: Successful completion of RUSS 1020 or permission of instructor.

RUSS 2475 Independent Study in Russian *(1-4L)(1-4CR) (Max. 4 credits)* Students will meet with the instructor to discuss independently assigned reading and reports from sources of special interest to the student(s) and pertaining to Russian culture and/or current events which are selected in consultation with the Russian instructor of record. Coursework will be done in Russian. Some oral/aural work will be required and grammatical topics may be revisited and expanded upon.
Prerequisites: Successful completion of RUSS 1020 or permission of the instructor.

SOC 1000 Sociological Principles (SSC) *(3L)(3CR) [E]* A survey of the organization of human society and the impact of group membership and interpersonal relationships upon human behavior.

SOC 1100 Social Problems *(3L)(3CR)* An analysis of the causes, effects and possible avenues for eradicating the social problems of our society. Crime, delinquency, family disorganization, racial conflict, and poverty are some areas of investigation.

SOC 1101 Education and the Good life: A First-Year Seminar (HU) *(3L)(3CR) [E]* This course is a first-year seminar focused on the nature and purpose of higher education. As individuals, and in groups, students examine the personal, social, civic, and economic goals of a public college with emphasis on the role of the arts and sciences. During the class, students do research, think through complex issues, consult with others, and in the end, present samples of their work to the instructor and classmates.

SOC 2112 Environmental Sociology *(3L)(3CR)* Environmental sociology is focused on the intersection of the social and physical worlds. The course explores the constant interaction between human societies and the environments they depend upon. The analysis includes an examination of economic patterns like consumption, production, and the use of environmental resources. The course also includes a discussion of the social mechanisms that shape our relationship to the environment – norms, roles, values, beliefs, and ideology.

SOC 2200 Sociology of Human Sexuality *(3L)(3CR) [E]* An interdisciplinary course designed to acquaint the student with the major factors affecting human sexuality. Relevant research is reviewed in biology, psychology, sociology, and anthropology, as well as religious and historical perspectives.
Prerequisites: A 1000 level introductory social science or

biology course.
Cross-listed: (Cross listed as PSYC 2200.)

SOC 2325 Marriage and Family *(3L)(3CR)* The family as a major institution. The significant aspects of courtship and marriage; contemporary marital and domestic problems; changing functions of the family and the impact of major social changes on family life are studied.
Prerequisites: SOC 1000, PSYC 1000, or permission of the instructor.

SOC 2350 Race and Ethnic Relations *(3L)(3CR)* In this course, we will examine social relationships among majority and minority groups by considering race and ethnicity in the United States. This course takes a sociological approach to this topic which emphasizes power structures, economic relationships, and cultural traditions from a contemporary and historical perspective. We will also devote attention to social psychological issues such as prejudice and social structural issues that include class inequality.

SOC 2400 Criminology *(3L)(3CR) [E]* A general introduction to the nature of crime, statistics on crime, types of criminal behavior, and explorations of crime.
Prerequisites: SOC 1000, or permission of the instructor.

SOIL 2010 Introduction to Soil Science *(3L, 2LB)(4CR) [E]* Introduces soil ecological processes and management in terrestrial environments. Discusses interaction of soil, biological, chemical. Morphological, and physical properties with land management in wild land and agricultural ecosystems. Emphasis is on plant response to soil conditions. (Spring semester.)

SOWK 2000 Intro to Social Work *(3L)(3CR)* Introduces social work and social welfare through an overview of the history, philosophy, ethics, values, methods, and fields of practice to generalist social work.
Concurrently: Concurrent enrollment in SOWK 2005 is optional.

SOWK 2005 Social Work Lab *(2LB)(1CR)* This volunteer assignment is designed to acquaint the student with services and agencies providing a wide range of human services in the field of social work. This course is an optional Lab component taken in concern with SOWK 2000 – Foundations of Social Work.

SOWK 2025 Social Work Capstone *(3L)(3CR)* In this class, students will reflect upon prior coursework in a range of social science disciplines. In addition, students will complete assignments that assist in preparation for further study in the field of social work.
Prerequisites: SOC 1000, SOWK 2000, ENGL 1020, ECON 1010, and PSYC 1000

SOWK 2485 Social Work Capstone *(3L)(3CR)* In this class, students will reflect upon prior coursework in a range of social science disciplines. In addition, students will complete assignments that assist in preparation for further study in the field of social work.

SPAN 1010 First Year Spanish I (HU) *(4L)(4CR) [E]* This course is intended for students who have never studied Spanish at the college level. Students will learn the fundamentals of the Spanish language through listening, speaking, reading and writing activities of the ACTFL (American Council on the Teaching of Foreign Languages) Novice High Level. This course will also introduce students to the culture of various Spanish-speaking countries. Language laboratory times are required as needed. Students who want to take for credit the next course in the sequence must complete this course with grade of a 'C' or better.

SPAN 1015 Novice Spanish II *(2L)(2CR)* This course is intended for students who have never taken Spanish at any level. The course introduces learners to the basic structures and vocabulary necessary to communicate in Spanish and may be a foundation for continuing with language studies beyond the novice level.

SPAN 1020 First Year Spanish II (HU) *(4L)(4CR) [E]* This course is a continuation of the objectives in SPAN 1010. Students will become more proficient in listening, speaking, reading, and writing Spanish and will further their grammatical study of the Spanish language at the ACTFL (American Council on the Teaching of Foreign Languages) Intermediate Low Level. The course will continue to introduce students to the culture of various Spanish-speaking countries. Language laboratory times are required as needed.
Prerequisites: A grade of "C"

or better in SPAN 1010, CLEP test result, or instructor's permission.

SPAN 2030 Second Year Spanish I *(4L)(4CR) [E]*

This course focuses on increased development of listening, speaking, reading, and writing skills in Spanish. Students review and expand upon grammar points which facilitate successful communication at the ACTFL (American Council on the Teaching of Foreign Languages) Intermediate Mid-Level. Language laboratory times are required as needed. Prerequisites: A grade of "C" or better in SPAN 1020, CLEP test result, or instructor's permission.

SPAN 2040 Second Year Spanish II *(4L)(4CR) [E]*

This course further emphasizes the development of all four communicative aspects of the Spanish language through composition, conversation, oral presentations, and grammar study. Language laboratory times are required as needed.
Prerequisites: A grade of "C" or better in SPAN 2030, CLEP test result, or instructor's permission.

SPAN 2140 Introduction to Reading/Composition and Conversation

(3L)(3CR) Reading of literature with emphasis on creative written expression; included is an introduction to Hispanic culture. Students who want to take for credit the next course in the sequence must complete this course with a grade of "C" or better.
Prerequisites: SPAN 2030, or permission of the instructor.

SPAN 2220 Intermediate Composition and Conversation *(3L)(3CR)*

Reading of literature with emphasis on creative written expression; included is an introduction to Hispanic culture. Students who want to take for credit the next course in the sequence must complete this course with a grade of "C" or better.
Prerequisites: SPAN 2140, or permission of the instructor. Students speak in Spanish. Emphasis on Spanish literature.

SPAN 2410 Introduction to Oaxacan Culture

(1L)(1CR) This course will focus on unique culture found in Oaxaca, Mexico. It will prepare students to more fully appreciate that culture while living in the midst of it as they attend a Spanish Language course at the Universidad Regional del Sureste (URSE) and take part in a service learning project in Oaxaca. This course is required of all students who wish to participate in the Student Exchange between Casper College and URSE. It must be passed with a grade of "C" or better and must be taken concurrently with SPAN 2420.
Prerequisites: Successful completion of SPAN 1010 with a grade of "C" or better, must be 18 years old by 1 January of the year in which the exchange is offered.

SPAN 2420 Travel to Mexico: Oaxaca *(3L)(3CR)*

This course will focus on unique or specific situations associated with traveling to Mexico (specifically Oaxaca). It will prepare students to successfully complete a Spanish language course at the Universidad Regional del Sureste (URSE) and a service learning project in Oaxaca. This course is required of all students who wish to participate in the Student Exchange between Casper College and URSE. It must be passed with a grade of "C" or better and must be taken concurrently with SPAN 2410.
Prerequisites: Successful completion of SPAN 1010 with a grade of "C" or better; must be 18 years old by 1 January of the year in which the exchange is offered.

SPAN 2475 Independent Study, Spanish

(1-4L)(1-4CR) (Max. 4) Individual appointments with instructor. Books studied independently by student in consultation with instructor. Students who want to take for credit the next course in the sequence must complete this course with a grade of "C" or better.
Prerequisites: SPAN 2040, or permission of the instructor.

SPAN 2495 Workshop: Topic *(.5-3L)(.5-3CR) (Max. 12)*

Offered in response to needs and interests of students and members of business and the community. Various topics will focus on development of practical Spanish-speaking skills and cultural awareness. A student may repeat this course, under different topics, for credit up to a maximum of 12 credit hours. Students who want to take for credit the next course in the sequence must complete this course with a grade of "C" or better.

STAT 2000 Statistics and the World *(3L)(3CR)*

Discusses statistical reasoning and methods as related to today's society. Emphasizes

ideas rather than specific techniques. Focuses on real examples of the use (and misuse) of statistics. Includes sampling, experimentation, descriptive statistics, elementary probability and statistical inference. Fall
Prerequisites: A "C" or better in MATH 0920 ; an ACT Math score of 21 or higher, or an appropriate placement score within the past year.

STAT 2050 Fundamentals of Statistics (MATH)

(5L)(4CR) [E] Primarily for the students of the life sciences, behavioral sciences, and physical sciences. Includes frequency distributions and graphics, central tendency, dispersion, useful probability models, and basic statistical inference including linear regression and correlation.
Prerequisites: A "C" or better in MATH 1000 or MATH 1400, or an ACT Math score of 23 or better, or an appropriate placement Exam score within the past year.

STAT 2070 Introductory Statistics for Social Science (MATH)

(5L)(4CR) [E] Primarily for the students of the social sciences. Includes frequency distributions and graphics, central tendency, dispersion, useful probability models, and basic statistical inference including linear regression and correlation, with emphasis on applications in the social sciences.
Prerequisites: A "C" or better in MATH 1000 or MATH 1400, or an ACT Math score of 23 or better, or an appropriate placement exam score within the past year.

STAT 2150 Applied Statistical Methods of Data Analysis

(4L)(4CR) [E] A continuation of statistical inference methods begun in STAT 2050 and STAT 2070. Topics include the design of experiments, multi-sample and multivariate methods, multiple regression, ANOVA, ANCOVA, MANOVA, and non-parametric methods. Emphasis is on interpretation of analyses provided by statistical software.
Prerequisites: A 'C' or better in STAT 2050 or STAT 2070.

THEA 1000 Intro to the Theatre (HU)

(3L)(3CR) [E] This course introduces and explores theater from page to stage as a live performing art. Topics include the relationship between theater and society (historical and contemporary), dramatic structure, theatrical representation, and the crafts of theater artists such as directors, designers, playwrights, and actors. We will also engage with live performances All

THEA 1005 The Art of Sound

(1L)(1CR) A study of the basic concepts of sound in the field of theatre, radio, television, internet and live performances. Learning the art form of sound and basic techniques of the equipment for recorded and live art. Topics include: under scoring, dialog, Foley, dramatic Audio, basics of microphones, mixers and sound systems. Editing equipment for audio production.

THEA 1016 Theatrical Improvisation

(3L)(3CR) An introductory theatrical improvisation course designed to explore spontaneous performance through theatrical improvisation. Students develop comic style, creativity, timing, character, and storytelling skills through individual and ensemble exercises and games. Classwork emphasizes collaboration, imagination, and quick thinking while building confidence in front of audiences. The course explores various styles of improvisation and culminates in both in-class and public performance opportunities. This course is open to all students. Spring

THEA 1020 Children's Theatre

(2L, 2LB)(3CR) This course will include a brief history of Children's Theatre, that is performance for children and youth; a study of selected plays that have been important in the development; the study and experience in the techniques employed in performing for children and youth, and will result in the development of a performance piece (play) that will be toured to local elementary schools.

THEA 1032 Musicianship I: Musical Theatre

(3L)(3CR) This course focuses on the development of musicianship skills to be used specifically for the Musical Theatre genre. This is the first of two courses in which the student will learn fundamental music structure and theory, sight reading, and aural skills while developing basic piano skills. Prerequisite: No prerequisite. Fall

THEA 1042 Musicianship II: Musical Theatre *(3L)(3CR)* This course is a second semester continuation developing the foundations of Musical Theatre including an intermediate exploration of the music theory concepts specifically designed for Musical Theatre majors. Through this course, students will continue to develop an understanding of music structure by creating text analysis, implementing music/rhythmic reading, and demonstrating principles of aural theory while expanding basic piano skills. This course forms the basis for other courses in the Musical Theatre degree. Spring

THEA 1046 Musical Theatre Voice *(1LB)(1-2CR)* This course requires a one-half hour private lesson per week. This studio music course will provide instruction in both classical and musical theatre voice for musical theatre majors. A fee will be assessed.

THEA 1050 Theatre and Dance Townhall *(0CR)* This course is designed as a weekly community gathering for theatre and dance students, faculty, and guest artists. Majors must be enrolled every semester. Sessions may include department updates, workshops, guest speakers, professional development activities, opportunities to share work in progress, and other experiences that enhance theatre and dance major programming

THEA 1100 Acting I (FA) *(3L)(3CR) [E]* An introductory acting course designed to explore the foundations of acting through creative exercises, improvisations, introductory script analysis and beginning scene work. Students will develop imagination, concentration, physical and vocal awareness, and emotional expression while working individually and collaboratively. Emphasis is placed on creativity, self-discovery and ensemble skills, leading toward realized performance opportunities and a deeper appreciation for the artform. This course is open to all students and fulfils a Fine Arts general education requirement.

THEA 1200 Introduction to Stage Design *(3L)(3CR)* Introduction to Design is an introduction and exploration of the visual and aesthetic principles as they relate to scene, costume, lighting and sound design. This course will aide in the basic understanding of the elements of design, the principles of composition, script analysis, the process of developing a design idea, and an in-depth exploration and demonstration of the scene, costume, and lighting design areas Spring

THEA 1220 CAD for Theatre *(2L, 2LB)(3CR)* An introductory course in computer graphics using AutoCAD software to create drafting for scenic and lighting designs. Students will be given the opportunity to learn 2-D and 3-D drawing, how to properly maintain files and how to produce hard copies.

THEA 1250 Script Analysis and Dramatic Literature *(3L)(3CR)* A practical introduction to analyzing dramatic texts from the perspective of theatre artists. Students study structure, character, language, and style in plays ranging from classical to contemporary works. Emphasis is placed on how actors, directors, designers, and stage managers approach scripts to inform performance, design, and production choices. Classwork combines close reading with applied projects that connect analysis to the rehearsal and production process.

THEA 1300 Musical Theatre Workshop *(3L)(3CR)* A course that synthesizes the work being done in students' acting, vocal, and dance courses and allows for practical application through Musical Theatre performance. MT I focuses on solo cabaret style story telling and performance.
Prerequisites: A strong interest in musical theatre is recommended, and permission from the instructor is required.

THEA 1471 Technical Theatre Practicum Costuming *(4LB)(2CR)* Required technical theatre lab work for all technical theatre majors not registered in THEA 2220 Stagecraft. Hands-on work constructing costumes used in Casper College Theatre and Dance Department productions. The student will develop an overview of how all the areas of technical construction overlap and support each other.

THEA 1472 Technical Theatre Practicum Lighting *(4LB)(2CR)* Required technical theatre lab work for all technical theatre majors not registered in THEA 2220 Stagecraft. Hands-on work in lighting preparation used in Casper College Theatre and Dance Department productions. The student will develop an overview of how all the areas of technical construction overlap and support each other.

THEA 1473 Technical Theatre Practicum Properties *(4LB)(2CR)* Required technical theatre lab work for all technical theatre majors not registered in THEA 2220 Stagecraft. Hands-on work constructing properties used in Casper College Theatre and Dance Department productions. The student will develop an overview of how all the areas of technical construction overlap and support each other.

THEA 1700 Voice for the Actor *(2L)(2CR)* Study of voice and articulation as a means of improving vocal expression in performance.

THEA 2010 Theatrical Backgrounds Drama I *(3L)(3CR) [E]* First semester of a one-year course. A study of plays from the major periods of dramatic literature. This course will cover from the Greeks through the Restoration.

THEA 2020 Theatrical Backgrounds Drama II *(3L)(3CR) [E]* Second semester of a one-year course. Covers major plays from the 18th century to the present. A continuation of THEA 2010.

THEA 2040 Production: Run Crew *(0-2LB)(0-1CR) Repeatable E* Individually supervised practical training during the rehearsal and performance of faculty-directed theatre productions. Open entry. Grading will be S/U **This course can only be taken for 0 credits if the student has already taken 2 credits of 2050, 2060, 2070 or 2080

THEA 2050 Theatre Practice *(0-1L)(0-1 CR) (Max. 10) Yes* Individually supervised practical training during the rehearsal and performance of faculty-directed theatre productions. Open entry. Grading will be S/U **This course can only be taken for 0 credits if the student has already taken 2 credits of 2050, 2060, 2070 or 2080 Every semester
Prerequisites: permission of the instructor.

THEA 2070 Production: Costume Crew *(0-1L)(0-1CR) (Max. 10)* Individually supervised practical training during the rehearsal and performance of faculty-directed theatre productions. Open entry. Grading will be S/U **This course can only be taken for 0 credits if the student has already taken 2 credits of 2050, 2060, 2070 or 2080

THEA 2080 Production: Stage Management *(0-4L)(0-2CR) (Max. 10)* Individually supervised experience in stage management during the rehearsal and performance of faculty-directed theatre productions. Open entry. Grading will be S/U **This course can only be taken for 0 credits if the student has already taken 2 credits of 2050, 2060, 2070 or 2080
Prerequisites: Permission of instructor.

THEA 2090 Production: Orchestra *(1-2L)(1-2CR)* Individually supervised practical training during the rehearsal and performance of faculty-directed theatre production. Open entry.
Prerequisites: Permission of the instructor.

THEA 2100 Acting II *(3L)(3CR)* A continuation of Acting I with emphasis on analyzing, rehearsing, and performing scenes in front of an audience. Students engage in scene study and characterization using contemporary scripts while applying rehearsal and analysis techniques rooted in contemporary practice.
Prerequisites: THEA 1100, or permission of the instructor.

THEA 2105 Musical Theatre Scene Study *(3L)(3CR)* This course is for students pursuing an Associate of Arts in Musical Theatre or students with a strong interest in musical theatre. This is the second of two Musical Theatre Workshop courses meant to develop rehearsal and performance technique, and allow the student to synthesize acting, movement, dance, and voice training into one arena. Whereas Workshop I focused on

the individual performer and personal story, this course focuses on scene partners and ensemble in larger-scale works, developing the student's understanding of performance through script analysis and scene work from the Musical Theatre repertoire, from the Golden Age through the Contemporary.
Prerequisites: Permission from the instructor for non-Musical Theatre students.

THEA 2145 Costume Construction

(1L, 4LB)(3CR) [E] This course will introduce all aspects of stage costuming: design and the integration of the costume with scenery, make-up, and lighting. The focus will be on the practical construction of costumes and will include practical laboratory work on college productions.

THEA 2155 Movement for Acting

(3L)(3CR) This course focuses on the physical training of the actor. Aspects of physical training that will be covered are: warm ups, dynamic movement, relaxation and alignment, coordination and control, and techniques such as stage combat and mime.

THEA 2160 Stage Makeup

(1L, 4LB)(3CR) [E] The practice of techniques involved in stage make-up. Straight and character make-ups, the application and shaping of beards and mustaches, and other techniques of realistic and nonrealistic make-up.

THEA 2220 Stagecraft

(2L, 2LB)(3CR) [E] Study of basic skills and procedures used to realize a design idea into a finished stage production. Work in design principles and techniques, set construction, color, and stage lighting. Laboratory required.

THEA 2235 Introduction to Scenic Design

(3L)(3CR) An introduction to the discipline of scenic design. Course will focus on the fundamentals of scenic design, including the history of design, fundamentals and principles of design, design process, and production of designer drawings, elevations, renderings and models.
Prerequisites: THEA 2220

THEA 2240 Costume Design

(3L)(3CR) An introduction to the discipline of costume design. This course will focus on the fundamentals of costume design, including history of design, history of fashion, fundamentals and principles of design, design process, and position of designer drawings, renderings, and other collaborative communications.
Prerequisites: THEA 2145

THEA 2310 Auditioning

(2L)(2CR) Practical experience in preparing and presenting audition material, and a preparation for a career in theatre, film or television.
Prerequisites: THEA 1100, or permission of instructor.

THEA 2311 Portfolio Preparation

(1L)(1CR) This course is for beginning costume, makeup, set or lighting designers, stage managers and/or technical directors. It is the study and practice of the techniques and skills required to assemble a professional portfolio and to prepare the student to present their work and themselves in a professional manner when interviewing for transfer schools or jobs.

THEA 2340 Musical Theatre Voice II

(1-2L)(1-2CR) Students pursuing an Associate of Arts in Musical Theatre degree are in their second year of study at Casper College. Musical Theatre Voice II is a continuation of Musical Theatre Voice and the larger series of eight semesters of voice lessons. In the second year, students should demonstrate continued development of technique as well as growth in vocal range and stamina. The students' repertoire should reflect all musical theatre styles as well as commercial music genres.
Prerequisites: THEA 1046-Musical Theatre Voice I

THEA 2350 Musical Theatre History and Analysis

(4L)(4CR) Understanding the history of musical theatre through the reading, listening, watching, and analyzing of specific groundbreaking musicals representative of the genre throughout the decades, and then how that information applies to each students professional craft.

THEA 2360 Musical Theatre History and Analysis II

(3L)(3CR) An advanced study of the analysis of musical theatre through the reading, listening, watching, and analyzing of specific groundbreaking musicals representative of the genre, and then how that information applies to each student's professional craft. This course will fulfill the general education requirement for Cultural Environment.
Prerequisites: THEA 2350

THEA 2370 Summer Theatre *(2-6LB) (1-3CR) [E] (Max. 4)* Credit for participation in the Casper College Summer Theatre Program in all phases of production. Open entry. (Summer term.)
Prerequisites: permission of the instructor.

THEA 2395 Introduction to Theatre Directing *(3L)(3CR)* An introduction to the art and practice of stage directing. Students explore the fundamentals of script analysis, concept development, staging techniques, and collaborating successfully with actors and designers. Emphasis is placed on the director's role as both artist and leader, guiding an ensemble from page to stage. Classwork combines discussion and practice, culminating in the direction of short scenes. This is a capstone class for Theatre Arts Majors.
Prerequisites: THEA 1100 and THEA 1250 or permission of the instructor.

THEA 2435 Musical Theatre Dance *(1L)(1CR)* This course explores the movement technique, basic history, and performance practices of musical theatre dance. Students will develop technical skill, musicality, and storytelling ability through the physical study of musical theatre dance repertoire.

THEA 2475 Directed Special Projects in Theatre *(1-3L, 2-6LB)(3CR) (Max. 6)* For students who wish to work in greater depth in acting, scenic design, stage lighting, costuming, research in theatre, etc. Course content will be contracted individually with each student in order to provide greater emphasis and experience in that student's area of interest.

THEA 2790 Stage Management *(2L)(2CR)* Learn the basic techniques used by stage managers to run and organize auditions, rehearsals, technical rehearsals and performances.

THEA 2800 Stage Lighting *(2L, 2LB)(3CR)* This is an introduction to the discipline of stage lighting which will examine the elemental aspects of stage lighting including: history, luminaries, color theory, lighting control, principles of lighting design and fundamental electricity. Laboratory required.

WELD 1555 Welding Technology Safety and Problem Solving *(1L, 1LB)(1.5CR)* Designed to increase awareness of accident prevention and to recognize potential hazards in the working environment. Emphasis in the theory and practice of hand tools and shop equipment including good working habits toward drilling, tapping, grinding, filing, letter stamping, metal cutting, drill sharpening, machine guarding, and layout.

WELD 1650 Print Reading and Welding Symbols *(2L)(2CR)* Designed to develop technical understanding of standard American Welding Society (AWS) symbols contained on engineering drawings and to effectively use this information to communicate welding instructions from the designer to the welder and fitter.

WELD 1700 General Welding *(.5L, 1LB) or (1L, 3LB)(1CR) or (2.5CR)* Includes the study of oxyacetylene welding, cutting and brazing (OAW, OAC), and Shielded Metal Arc Welding (SMAW) processes. Students should develop skills necessary to produce quality welds on mild steel joints utilizing both processes.

WELD 1710 Oxyacetylene Welding and Cutting *(1L, 1LB)(1.5CR)* Instruction in welding safety, oxyacetylene cutting (OAC), oxyacetylene welding (OAW) and torch brazing (TB) processes. Identification of the most common joint designs, including joining processes using bead, fillet, and groove welds. Applications used with art forms, pipe welding, and nonferrous metals are covered.

WELD 1755 Shielded Metal Arc Welding *(4L, 8LB)(8CR)* Provides the student with the technical knowledge of Shielded Metal Arc Welding (SMAW) safety, power sources, and electrode classification and selection. Training is provided to develop skills necessary to produce quality welds on mild steel in all positions using mild steel electrodes, low hydrogen electrodes, and iron powder electrodes using both AC and DC current.

WELD 1770 Gas Metal/Flux Core Arc Welding *(2L, 6LB)(5CR)* Provides the student with a technical understanding of Gas Metal Arc Welding (GMAW) equipment, trouble-shooting and

adjustments, metal transfer, shielding gases, and welding safety. Will include training in the gas metal arc spray and short circuit transfer, Flux Cored Arc Welding (FCAW), and Innershield.

WELD 1785 Gas Tungsten Arc Welding (GTAW) *(2L, 6LB)(5CR)*

Provides the student with the knowledge and understanding of the Gas Tungsten Arc Welding (GTAW) process, welding safety, and arc characteristics. Students should develop skills necessary to produce quality fillet and open groove welds on mild steel, stainless steel, and aluminum.

WELD 1820 GMAW and GTAW Welding

(1L, 3LB)(2.5CR) Provides basic instruction in the Gas Tungsten Arc Welding (GTAW) and Gas Metal Arc Welding (GMAW) processes. Emphasis on safety, machine set-up and trouble-shooting, and power sources. Students should develop skills necessary to produce quality welds on mild steel, aluminum, and stainless steel joints utilizing both processes.

WELD 1860 Welding Fabrication *(2L, 6LB)(5CR)*

Building a project of their choice, students display design, layout, and welding skills. Abilities are further developed using a variety of processes on construction of metal structures. Students are given the opportunity to compete in local and national competition with their projects.
Prerequisites: WELD 1650, WELD 1710, WELD 1755, WELD 1770, AUBR 1820.

WELD 1910 Specialized Welding and Joining

(2L, 2LB)(3CR) Emphasizes unique applications of hard-to-join metals and plastics. Utilizing modern technology, students are exposed to new dimensions in welding. Various laboratory exercises will cover plasma, submerged arc welding, resistance spot welding, metal surfacing, thermal torch spraying, and thermoplastic welding.
Prerequisites: WELD 1710, WELD 1755, WELD 1770, AUBR 1540.

WELD 1975 - Independent Study Welding *(1-3CR)*

Provides an option for students with sufficient background to pursue special interests in the welding laboratory under contract with the instructor.
Prerequisites: Welding majors only.

WELD 1980 Cooperative Work Experience

(1-8CR) (Max. 8) Advanced students are afforded the opportunity to gain practical on-the job experience in their specialties. Students will be supervised by the instructor and the employer. A minimum of 80 hours of on-the-job training represents one semester credit.
Prerequisites: permission of the instructor.

WELD 2500 Structural Welding *(2L, 2LB)(3CR)*

A continuation of ARC welding techniques utilizing Shielded Metal Arc Welding (SMAW) Gas Metal Arc Welding (GMAW) on a variety of structural applications. Emphasis will be placed on multiple positions and joint geometry common to industry. Testing and course material will be based on the American Welding Society Structural Welding Code D1.1.
Prerequisites: WELD 1710 and WELD 1770.

WELD 2510 Pipe Welding I *(2L, 4LB)(4CR)*

An introduction to pipe fabrication. Emphasis will be on joint preparation, formulas used in pipe layout, and uphill and downhill techniques. Welding will be done on carbon steel using the Shielded Metal Arc Welding (SMAW) process with qualification testing in accordance with API and ASME codes.
Prerequisites: WELD 1710.or permission of instructor.
Concurrently: Concurrent enrollment in WELD 1755 is required.

WELD 2520 Pipe Welding II *(2L, 6LB)(5CR)*

Designed to combine skills developed in previous courses to prepare pipe joints on carbon steel, stainless steel, and aluminum pipe. Welding will be done using the Shielded Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW), and Gas Metal Welding (GMAW) processes in the 2G, 5G and 6G positions. This course includes a welder qualification performance test in accordance with Section IX of the ASME Boiler and Pressure Vessel Code.
Prerequisites: WELD 2510.

WELD 2970 Welding Internship *(1-8CR)*

Students will be placed in selected welding related industries for guided learning experiences providing the students with practical application of

knowledge and skills learned in the classroom.
Prerequisites: permission of the instructor.

WELD 2995 Welding Workshop

(2LB)(1CR) A variable interest course in the welding field designed for vocational education instructors only.

ZOO 2015 Human Anatomy (SCI)

(3L, 3LB)(4CR) [E] This course is designed to give students a hands-on experience with the microscopic and macroscopic elements of human anatomy. Topics covered include human anatomical principles ranging from the cellular to the organ system level. This course is intended to provide students with a solid anatomical background, which may be used to assist in learning human physiology. During the laboratory portion of this class, students will be tasked with learning and identifying relevant anatomical structures which are being presented and discussed in the lecture portion of the course.
Concurrently: (This course must be combined with ZOO 2025 in order to fulfill an anatomy and physiology requirement. *NOTE: a maximum of 8 credit hours in an Anatomy and Physiology course sequence may be applied toward graduation.)
Cross-listed: (Cross-listed at UW as KIN 2040.)

ZOO 2025 Human Physiology (SCI)

(3L, 3LB)(4CR) This course is a scientific inquiry into the physiology of select organ systems in the human body during homeostasis. Physical exertion, environmental effects and pathological change will also be discussed as they pertain to physiological change in organ system function. Physiologic concepts will be related to anatomical organization.
Concurrently: (This course must be combined with ZOO 2015 and in order to fulfill an anatomy and physiology requirement. *NOTE: a maximum of 8 credit hours in an Anatomy and Physiology course sequence may be applied toward graduation.)

ZOO 2140 Cadaver Anatomy

(3L, 2LB)(4CR) This course involves dissection of human anatomical donors for the purpose of studying human anatomy at the macroscopic level. The lecture portion of the course builds upon the principles of anatomy acquired in previous coursework. In the laboratory portion of the course, students will learn basic dissection techniques and will apply them to the dissection of a human anatomical donor. The course is regionally organized so that the primary focus is on the thorax, abdominal and cranial regions. Extremity, back and pelvic prosections will be studied. (Spring only.)
Prerequisites: Successful completion of ZOO 2015 and ZOO 2025, or permission of the instructor.

ZOO 2450 Fish and Wildlife Management in the Anthropocene

(4L)(4CR) [E] Emphasizes principles of habitat and population biology and management, human dimensions of wildlife management, as well as law and policy.
Cross-listed: ENR 2450