



Photo by Lanna Rios

COURSE DESCRIPTIONS

For all college level courses (those numbered 1000 or above) it is the student's responsibility to have the necessary college level skills in composition, reading, and mathematics to be successful in the course. College level skills in composition, reading and mathematics can be demonstrated by COMPASS, ACT or SAT test scores or completion of the appropriate pre-college courses. Students who are unsure of the required academic skills for a particular course should contact the instructor of the course, an academic advisor, or the appropriate dean.

DIRECTED STUDY

Directed study courses may be offered in any discipline depending upon available instructional resources. Students may not enroll in more than one directed study course each semester. Directed study courses utilize an independent study mode for specific areas of study not covered by courses listed in the catalog and are to be used in exceptional circumstances.

In such courses, students will engage in a series of activities designed to develop competence in a specified area. Activities should include, but are not limited to, the development and preparation of presentations and special research. Specific requirements should be determined by the student and the instructor. The course designator and primary purpose for the directed study must be consistent, i.e., a directed study aimed at developing teaching skill, regardless of content area, must have an education designator. A directed study will not be used to supplant work-study experiences.

A Directed Study Contract, available from the Registration and Records Office or any Division office, must be submitted. The prerequisite for directed studies courses is the permission of the instructor and dean approval.

The directed study courses are sophomore level transfer courses, provide 1-4 credits and are numbered 2965 in each discipline. Directed study courses may not be used to fulfill General Education requirements. A maximum of eight credits may be earned through directed study and may be applied to a degree or certificate.

SPECIAL TOPICS

Special Topics courses are offered in most disciplines listed in this catalog and are designed to present a variety of specialized, focused topics. Because Special Topics courses are designed to fill specific, specialized needs, they are intended to be offered on a trial basis before it must become a full course offering. A specific Special Topics course may only be offered up to a maximum of three times before it must be converted to a new CWC course. These courses vary from one half to three credits in length. Topics courses are numbered 2490 for each department. General Education requirements may not be fulfilled with Special Topics courses. A maximum of six credits earned through Special Topics may be applied toward a degree or certificate.

COURSE NUMBERING SYSTEM

The courses at Central Wyoming College are identified by a set of course department abbreviations and numbers assigned from a statewide catalog. All Wyoming community colleges and the University of Wyoming use the same common course department abbreviations and numbers to identify similar courses. Courses with the same department abbreviation and course number have been judged to be generally equivalent in content and purpose throughout the state.

COURSE DESCRIPTIONS

Course department abbreviations precede the course numbers in the subject area. Course numbers between 0001 – 0999 indicate that the content of the course is primarily a review (pre-college level). The purpose of these courses is to improve skills basic to education. These courses cannot satisfy program graduation requirements and are not generally transferable to other colleges or universities. Courses numbered below 1000 will not be used to compute honor roll.

Courses numbered 1000 – 2999 indicate that the content of the course is at the college level. These courses may be applied toward completion of a program of study. Courses in parenthesis () indicate the previous department abbreviation and course number.

PREREQUISITES

Courses may have prerequisites. These are requirements which must be completed before enrolling in a certain course. Types of prerequisites include instructor's permission, certain scores on placement tests, previous coursework, and good standing in certain programs. Prerequisites are designed to help assure that the student has a reasonable chance of success in a course. Courses listed as prerequisites must either be completed with a "C" or better, or the student must have obtained the instructor's written permission before taking the next level course. Instructor's permission is usually required for courses in which there is limited laboratory space or equipment or in which specific skills are required.

GENERAL EDUCATION DESIGNATION LEGEND:

Courses that fulfill general education requirements have the following designators listed at the end of the course descriptions:

WR1	Writing Level I
WR2	Writing Level II
POLS 1000	U.S. and Wyoming Constitution
ARTS	Visual, Performing, Expressive Arts
CLCA	Co-Curricular Learning Cultural Appreciation
CLCE	Co-Curricular Learning Community Engagement
CLPE	Co-Curricular Learning Professional Experience
FIN	Financial Literacy
HUM	Humanities
LSCI	Lab Science
MATH	Mathematics
ORAL	Oral
PEAC	Physical Activity
SOC	Social/Behavioral Science
UNST	University Studies
WELL	Wellness
APPM	Applied Mathematics (For Associate of Applied Science degrees only)
IT	Information Technology (For Associate of Applied Science degrees only)

OTHER DESIGNATORS:

The number of hours per week each class meets is indicated in parentheses at the end of each course description; for example, "(3 lect., 3 lab)" means three hours of lecture plus three hours of laboratory work each week for a 15 week course. The number of lecture and laboratory hours per week changes if the course is taught over an 8 week period, a 5 week period, etc. The number of hours allotted to laboratory sessions varies by academic discipline. Any explanations needed should be referred to the dean of the academic discipline in question.

Courses offered for "S/U grading only" will be specified as such; all other courses will be offered for a standard grade.

UNIVERSITY OF WYOMING TRANSFER CODES

The code listed in parentheses, after the course title, is designed to assist students wishing to transfer to the University of Wyoming. The first letter in the code will stand alone and will indicate the University equivalency or transferability status of the course using the following:

E = Equivalent Course
T = Transferable Elective

The second part of the code will indicate by letter/letters the University Studies requirement at the University of Wyoming which the course fulfills. University Studies requirements were changed fall 2003.

CORE COMPONENTS:

	Required Courses	Required Credits
Intellectual Community (I):	1	1-3
Writing 1 (WA)	1	3
Oral Communication (O)	1	3
Quantitative Reasoning 1 (QA)	1	3
Quantitative Reasoning 2 (QB)	1	3
Science (S, SB, SP, SE)	2	4-8
S = Integrated Science		
SB = Biological Science		
SP = Physical Science		
SE = Earth Science		
Cultural Context (C,CH,CS,CA)	3	9
(Must take 3 credits from each of CH,CS and CA or substitute 3 credits from C for one other category.)		
C = Integrated Cultural Context		
CH = Humanities		
CS = Social and Behavioral Sciences		
CA = Fine Arts		
US and Wyoming Constitution (V)	1	3
Physical Activity & Health (P)	1	1

EMBEDDABLE COMPONENTS

Embeddable Components may be part of another course.
Information Literacy (L)
Writing 2 (WB)
Writing 3 (WC)
Global Awareness (G)

An example of the code listing of an equivalent course that meets the University Studies Biological Science requirement would be (E/SB).

ACCOUNTING - SEE BUSINESS

AGRICULTURE

AECL 1000 – Agroecology.

4 credits (E)

This course introduces students to the ecological interactions that exist in agricultural systems and how these interactions impact food production both locally and on a global scale. This course investigates the challenges of feeding growing populations with a fixed resource based (land) and the economic, political, and environmental challenges facing agricultural food production. (3 lect., 3 lab)

AECL 2100 – Integrated Resource Management. 3 credits (T)

This is a capstone course designed to integrate farm and ranch management skills into the day to day farming/ranching practices. Students are required to develop a farm/ranch management plan which encompasses farm/ranch resource inventory, strategic planning, strategies, and tax liability management. In addition, incorporated into the plan are grazing and forage management, cropping systems, marketing, and human resource management strategies. The plan will be evaluated by industry experts. Prerequisites: Complete ANSC 1010; AGECE 2020; REWM 2000 or AECL 1000 or SOIL 2010. (3 lect.)

AGECE 2010 – Farm & Ranch Business Records. 3 credits (E)

This course introduces students to the basic accounting principles, business methods, financial measures, and indicators commonly found in an agricultural operation. Students are introduced to recordkeeping requirements and methods, use of a balance sheet and income statement, enterprise budgeting, cash flow budgeting, partial budgeting, and forms of farm business organization. (3 lect.)

AGECE 2020 – Farm & Ranch Business Management. 4 credits (E)

This course is designed to introduce the student to economic principles, business methods, and science applied to agricultural organization and operation. The measurement of business size, rate and efficiency of production is emphasized. (4 lect.)

ANSC 1010 – Livestock Production. 4 credits (E)

This is an introductory course focusing on modern livestock production and management practices. Students study meat and dairy products of livestock production, livestock selection, nutrition, breeding, genetics, reproduction, health and disease. Domestic livestock species studied in this course include sheep, beef cattle, dairy cattle, swine, and horses. (3 lect., 2 lab)

ANSC 2020 – Feeds & Feeding. 4 credits (E)

This course introduces students to the basic concepts of animal nutrition, feeding, and the usage of various feedstuffs to meet livestock nutritional objectives. Students study gastrointestinal tract anatomy and physiology of common livestock species, and nutritional requirements during the various phases of livestock production. The course explores nutritional classification and characteristics of various feedstuffs, digestibility, nutrient analysis, and the role nutrients perform in the diet of livestock species. Calculations of least cost feeding rations are completed both manually and using computerized ration balancing software. (3 lect., 2 lab)

REWM 1000 – Intro to Range Management. 1 credit (E)

This course introduces students to the basic concepts of range and natural resource management. The course is designed to give students the opportunity to explore various land management and natural resource careers. (1 lect.)

REWM 1300 – Intro to Water Resources. 3 credits (T)

This is an introductory course offering a foundation in water resources and management. The course will emphasize basic hydrological principles, characteristics of ground and surface water, watersheds, and water quality. Contemporary issues surrounding water use, the future of the Earth's water and the role of governing bodies in managing water resources will also be discussed. Prerequisite: Completion of MATH 0920 or equivalent. (3 lect.)

REWM 2000 – Principles of Range Management. 3 credits (E)

This course introduces students to Range Management systems of grazing and grazing capacity, livestock grazing management, and methods of measuring forage use, as well as rangeland rehabilitation and maintenance. Students are instructed on the use and application of available technologies including a range management simulation exercise. (3 lect.)

REWM 2012 – Water Rights & Natural Resources Policy. 3 credits (T)

This is an introductory course emphasizing state and federal policies governing water rights, public lands, wildlife and other natural resources. This course explores the history of legislation and how federal and state attitudes have evolved into the present political conditions. Extended discussions cover case laws and nature and water resources authority. (3 lect.)

REWM 2015 – Range Ecosystem & Plants. 3 credits (T)

This course addresses the plants and rangelands of the Western U.S. The course emphasizes the importance of range plants and their relationship with various rangeland ecosystems. Students will learn different rangeland climates, soils, and vegetation. Students will learn to identify rangeland plants by their common names, scientific names, and family or tribe names. They will study the Southeast and Wyoming rangeland ecosystems. Prerequisite: Completion of REWM 2000. (2 lect., 2 lab)

REWM 2025 – Livestock Nutrition for Range & Pasture Lands. 3 credits (T)

This course is designed to introduce the student to livestock feeding principles in confined and range land situations. This includes understanding grazing animal forage needs and foraging behavior as well as defining pasture forages and supplements, and management of herbivores for optional forage/feeding intake. Prerequisite: Completion of REWM 2000. (3 lect.)

REWM 2500 – Rangeland Plant Identification. 2 credits (E)

This course addresses the plants and rangelands of the United States with emphasis on those found in the Western U.S. The course emphasizes the importance of range plants and their relationship with various rangeland ecosystems. Students study different rangeland climates, soils, and vegetation. Students identify rangeland plants by their common names, scientific names, and family or tribe. Prerequisite: Completion of REWM 2000. (1 lect., 2 lab)

SOIL 2010 – Intro to Soil Science. 4 credits (E)

Introductory course in soil science focused on soil physical, chemical and biological properties. Topics include soil and plant interactions, water and nutrient cycling in soils, soil microclimate, soil water content management and plant interactions, soil organisms, microbial processes, mineral nutrients, soil acidity and salinity, soil degradation, and soil taxonomy in the terrestrial ecosystems common to agricultural production. An overview of soil usage for non agricultural purposes is discussed. (3 lect., 3 lab)

SOIL 2130 – Environmental Quality. 3 credits (E)

This course will provide an introduction to environmental components and the quality issues and events that influence them. Curriculum will emphasize the impacts of different nutrients and contaminants (phosphorus, sulfur, trace elements, and organic chemicals) on soil, water, atmospheric, and vegetative ecosystems. Contemporary issues in environmental quality will be explored in detail and course will include a one-day field trip. Prerequisites: CHEM 1000 or any LSCI. (2 lect., 2 lab)



AMERICAN INDIAN STUDIES

AIST 1000 (NAAS 1000) – Intro to American Indian Studies. 3 credits (T)

Introduction to American Indian Studies is a general survey course designed to acquaint students with traditional and contemporary American Indian cultures. The course will address issues in law, education, health, tribal government, religion and social issues. (3 lect.)

AIST 1005 (NAAS 1005) – Intercultural Communication. 3 credits (T)

This course is designed to provide the student with the knowledge, skills, and tools to effectively function in intercultural environments, situations, and relationships. Within this process, one focus will be communication between the American Indian and Euro-American cultures, although many different cultures will be included in this experience. The theoretical foundations and systematic structure of communication processes will lay the foundation from which intercultural relationships will be examined. Students earning credit in AIST 1005 may not earn credit in CO/M 1005. (3 lect.)

AIST 1100 (NAAS 1100) – American Indian Education. 3 credits (T)

This course is designed to address the pertinent issues of American Indian education in the United States. It includes a comprehensive historical review of traditional American Indian ways of knowing and learning, and the changes in this process brought on by 130 years of U.S. government policy and regulation. Theories of education, including content (curricula) and processes (ways of learning) will be examined in this context, as well as techniques to be successful teaching in Indian/Non-Indian classrooms. Students earning credit in AIST 1100 may not earn credit in EDUC 1100. (3 lect.)

AIST 1270 (NAAS 1270) – Indians of the Wind River. 3 credits(T)

This course is a survey of the history of the Wind River Indian Reservation, home to the Eastern Shoshone and Northern Arapaho Tribal Nations. In addition to the historic development of the Wind River Reservation, this course will provide overviews of the traditional (pre-contact) cultures of both tribal groups and follow the significant historical and contemporary events that have led to the cultural changes here in the 21st century. A focus of this course will be toward a clearer understanding of the historical evolution of the relationships between the Eastern Shoshone, the Northern Arapaho, and the Euro-American cultures and how these diverse cultures have managed their social, political, and economic interactions over time. (3 lect.)

AIST 2032 – Native American Art History. 3 credits (T)

This course is a survey of Native American art history. The course will begin with the Neolithic Art (9500BC) and finish with contemporary art. Within this time span, students will learn of various social, economic, and historical factors which motivated and conditioned the aesthetic forms. Students will also learn to recognize the stylistic characteristics of each period. Students earning credit in AIST 2032 may not earn credit in ART 2032. (3 lect.)

AIST 2290 (NAAS 2290) – History of U.S. Indians. 3 credits(E/CH)

This course examines major developments in Indian history since European contact. Concentration will be upon geographical groups, their migrations and relationships to the United States government. Students earning credit in AIST 2290 may not earn credit in HIST 2290. (3 lect.)

AIST 2330 (NAAS 2330) – Topics in Native America: 1-3 credits (Max 6) (T)

This course focuses on topics of significance in contemporary Native American life. Topics range from preservation of traditional values to modern tribal sovereignty.(1-3 lect.)

AIST 2340 (NAAS 2340) – American Indian Literature. 3 credits (E)

This course is a broad study of the literature of American Indian peoples. It includes both oral and written traditions, from the pre-Colombian era to the 20th century. Legends, oratory, songs, poems, and stories are the matter of the course. Students earning credit in AIST 2340 may not earn credit in ENGL 2340. Prerequisite: Completion of ENGL 1010. (3 lect.) *HUM*

AIST 2350 (NAAS 2350) – Cultural Institute. 3 credits (E)

The focus of this course is developing a greater knowledge and comprehension of the people of the Wind River Indian Reservation. Students will attend events, presentations, and visit various locations on the Reservation that are historical and contemporary significance. (3 lect.) *CLCA*

AIST 2400 (NAAS 2400) – Intro to Federal Indian Law. 3 credits(T)

This foundational course will examine the federal/tribal history since European arrival. Students will secure a foundational awareness in Indian law that includes the Marshall Trilogy, Dawes Act and recent Supreme Court decisions which ultimately affect the lives of Indian people within the United States. Tribal governments and their operations as they relate to existing law will also be part of this course. (3 lect.)

ANTHROPOLOGY

ANTH 1100 – Intro to Physical Anthropology. 3 credits (E/SB)

Anthropology is the comparative study of the whole spectrum of human existence and culture across time and space to address fundamental questions about what we are and why. In other words, the geological, climatological, biological, cultural processes, and circumstances that created human variation through time and around the world. The sub-discipline of physical anthropology examines humans as biological organisms. Broadly, the course is a survey of basic physical, or biological, anthropology including origin, evolution, and biological nature of the human species and non-human primates. Topics include field and laboratory research methodologies, technologies, interpretive theories, and principles used in paleontology and other branches of physical or biological anthropology; genetics and the mechanics of evolution; non-human primate and pre-human origins and evolution; the fundamental theories and principles associated with the origin, evolution, and interdependent biological and cultural adaptation of homo sapiens; the immense variation in human adaptation (including dependence on technology); global human dispersal and settlement, including modern migration due to environmental, social, political, economic or other causes. (3 lect.) *SOC*

ANTH 1200 – Intro to Cultural Anthropology. 3 credits (E/CS/G)

Cultural anthropology is the systematic analysis of social organization, diversity, and adaptation. This social science uses well-developed field research and interpretive theories and methodologies to understand human cultural adaptation and variation. Cultural anthropology explores the complex interrelationships of environment, family, kinship structures, political and religious organization, gender, race, and ethnicity, technology, economy including acquisition of goods and cultural modes for production of food and other necessities, arts, and language of cultures from around the globe. This course examines evolving adaptations to environmental, economic, socio-political and other changes or stresses within and between cultures from around the globe. The course examines complex relations between groups within modern nations, particularly as formerly isolated ethnic and indigenous groups encounter globalization, migration, and transnational's, and are further impacted by cultural contact, tourism, diseases, environmental issues, etc. (3 lect.) **SOC**

ANTH 1210 – Climate Change & the Human Experience.**3 credits (T)**

This course is a broad survey of human biological and cultural evolution. It examines the relationships between humans and their environments, in other words, how climate has affected human experience and culture through time and around the globe. The course uses a holistic, anthropological perspective to examine how hunter-gatherers, agriculturalists, and industrial societies have tried to adapt to and control climate and food production through religion and technology. Global climate is currently changing at an unprecedented rate which is problematic as culture is conservative and resistant to change. Wild fluctuations in temperature and precipitation, catastrophic storms and melting ice caps present us with increasingly difficult and costly challenges. (3 lect.)

ANTH 1300 – Intro to Archaeology. 3 credits (E/CS/G)

This course explores ways in which prehistoric material remains can provide an understanding of the cultural way of life. General background in archaeological method and theory is used to examine case studies from throughout the world, based on themes such as ceramic technology and artistry development, growth of early civilizations and North American prehistory. (3 lect.) **SOC**

ANTH 2010 – Archaeology Field School. 3 credits (Max 6) (T)

This class provides introductory practical training in basic field research methods including research design, surface survey, mapping & recording sites, test excavation, and analysis of cultural remains in the context of a long-term research project. Course includes workshops, tours, discussion of Plains cultural history, dating methods, zoological analysis, and public archaeology. This is a physically demanding field course work in potentially inclement weather conditions. Class held in remote locations requiring student to safely work and camp together including participation in camp chores. Students must have health insurance. Prerequisites: Completion of ANTH 1300 and instructor's permission. (3 lect.) **CLPE**

ANTH 2020 – Material Culture Studies. 3 credits (Max 6) (T)

This course provides introductory level, lab-oriented hands-on practical training in the handling, identification, analysis, cataloging, report writing, conservation, curation, exhibition, and proper storage of material culture objects including prehistoric and historic archaeological artifacts, museum objects, art, and other cultural objects. Through readings, discussions, field trips, and practical applications, students will preserve and utilize material culture remains in archaeological laboratory and museum workshop

and exhibit situations. The course introduces students to theoretical arguments about the nature and function of cultural representations and provides an introduction to museum organization; museological theory and philosophy; concepts of museum exhibition and interpretation. It discusses how collections and objects can be used as sources of meaning and information, and how museums and numerous other institutions can be used as educational resources. This is a methods class and may require students to lift and carry large, heavy, awkward, very fragile, and/or delicate objects, nearly all of which are irreplaceable. This course may also require the use of power and hand carpentry and other tools. Prerequisite: Instructor's permission. (1 lect., 4 lab)

ANTH 2022 – Petroglyphs & Primitive Art. 3 credits (T)

This course presents an overview of worldwide prehistoric artistic archetypes through time and the relationship between hunter-gatherer and developing agricultural societies' survival strategies and artistic endeavors with a focus on Wind River Basin indigenous peoples. A re-quired component of the class is field trips to prehistoric hunter-gatherer habitation, petroglyph, and pictograph sites. Field trips allow students to experience the habitats and evidence of ancient peoples in the area, thus increasing their understanding of the variety of artistic, anthropological, and sociological components of ancient peoples' art and lifestyles. (2 lect., 2 lab) **HUM**

ARAPAHO – SEE LANGUAGES**ART****ART 1000 – General Studio Art. 3 credits (E/CA)**

This is an art appreciation course designed for students with little or no art experience. This hands-on class will explore a variety of art creating materials and approaches while discussing historical and contemporary art movements and artists. (2 lect., 3 lab) **ARTS**

ART 1005 – Drawing I. 3 credits (T/CA)

This course introduces students to drawing through a variety of medias. Students are encouraged to become visually aware and to develop a technical command of the materials, concepts, and techniques associated with the two-dimensional surface. Lectures and critiques include theory, history, and appreciation of drawing. (2 lect., 3 lab) **ARTS**

ART 1110 – Design: 2D. 3 credits (E)

This is a foundation-level course that explores the fundamentals of design. Specific projects are designed to give the student visual and practical experience in the use of color and composition as it relates to two-dimensional art. Discussion will include design and its relationship in historical and contemporary cultures. (2 lect., 3 lab)

ART 1120 – Design: 3D. 3 credits (E)

This is a foundation-level course that explores the fundamentals of design. Specific projects are designed to give the student experience in understanding the use of various media in three-dimensional art forms. Composition, form development, and sculpture technique all combine to enhance critical thinking skills. (2 lect., 3 lab)

ART 1130 – Color Theory. 3 credits (E)

This is the third in a sequence of three foundation courses that explore the fundamentals of design. Specific projects are designed to give the student visual and practical experience in the use of color. Discussion will include color and its relationship to historical and contemporary cultures and artworks. (2 lect., 2 lab)

ART 1150 – Photography I. 3 credits (E/CA)

This is an introductory course in black and white photography with both lecture and lab work on camera use, film processing, and photographic printing. The development of ideas and concepts is encouraged through theory, criticism, and historical reference. (2 lect., 3 lab) **ARTS**

ART 1160 – Photography II. 3 credits (T)

This is an intermediate course in photography which offers additional practice in black and white photography and camera use with intermediate dark room techniques. In addition, students will be encouraged to continue developing techniques and concepts related to photography. Prerequisite: Completion of ART 1150. (2 lect., 3 lab)

ART 1178 (ART 2135) – Digital Imaging. 3 credits (T)

This course is designed to explore the unique capabilities of Photoshop or other graphics software to create and transform digitized images. Emphasis will be placed on the development of expressive visual art through the use of art and design concepts. In addition, students will be encouraged to continue developing techniques and concepts related to digital imaging. Prerequisite: Students should have basic computer/Windows skills. (2 lect., 2 lab)

ART 1350 – Metal Fabrication. 3 credits (Max 6) (T)

This course teaches various techniques in creating fabricated steel art works. Instruction includes blacksmithing and welding equipment, as well as finishing techniques and surface treatments for steel. The development of ideas and concepts are encouraged through theory, criticism, and historical reference. This course may be repeated for a maximum of six credits applicable toward graduation. (2 lect., 3 lab)

ART 1450 – Fibers I. 3 credits (T)

This course is an introduction to the many medias of fiber arts. Dyeing, batik, silk screening, and others will be explored in this studio course. The development of ideas and concepts is encouraged through theory, criticism, and historical reference. (2 lect., 3 lab) **ARTS**

ART 1460 – Fibers II. 3 credits (T)

This is an intermediate course in fibers in which students are allowed the freedom to explore a variety of fiber medias or focus on one area of study. In addition, students will be encouraged to continue developing techniques and concepts related to fibers. Prerequisite: Completion of ART 1450 or instructor's permission. (2 lect., 3 lab)

ART 1465 – Fibers III. 3 credits (T)

This is an advanced course in fibers. Students are encouraged to explore different processes and techniques and concepts related to fibers that include batik, weaving, quilting, basketry and printmaking. Continued development of techniques and concepts related to fibers will be encouraged. Specific emphasis will be placed on development of a focused thematic content. Prerequisite: Completion of ART 1460 or instructor permission. (2 lect., 3 lab)

ART 2010 – Art History I. 3 credits (E/CA)

This course is the first semester of a one-year survey of art history. The course will begin with the Paleolithic era and finish with Gothic art. Within this time span, students will learn of various social, economic, and historical factors which motivated and conditioned the aesthetic forms. Students will also learn to recognize the stylistic characteristics of each period. (3 lect.) **HUM**

ART 2015 – Identity Through the Arts. 3 credits

The topic of identity will be explored through the discussion and study of culture, race, gender, and sexuality in the context of different cultures and time periods as they relate to the visual and performing arts. Students earning credit in ART 2015 may not earn credit in WMST 2015. (3 lect.)

ART 2020 – Art History II. 3 credits (E/CA)

This course is the second semester of a one-year survey of art history. The course will begin with the Renaissance and end with the 21st century. Within this time span, students will learn of various social, economic, and historical factors which motivated and conditioned the aesthetic forms. Students will also learn to recognize the stylistic characteristics of each period. (3 lect.) **HUM**

ART 2022 – Petroglyphs & Primitive Art. 3 credits (T)

This course presents an overview of worldwide prehistoric artistic archetypes through time and the relationship between hunter-gatherer and developing agricultural societies' survival strategies and artistic endeavors with a focus on Wind River Basin indigenous peoples. A required component of the class is field trips to prehistoric hunter-gatherer habitation, petroglyph, and pictograph sites. Field trips allow students to experience the habitats and evidence of ancient peoples in the area, thus increasing their understanding of the variety of artistic, anthropological, and sociological components of ancient peoples' art and lifestyles. (2 lect., 2 lab) **HUM**

ART 2032 – Native American Art History. 3 credits (T)

This course is a survey of Native American art history. The course will begin with the Neolithic Art (9500BC) and finish with contemporary art. Within this time span, students will learn of various social, economic, and historical factors which motivated and conditioned the aesthetic forms. Students will also learn to recognize the stylistic characteristics of each period. Students earning credit in ART 2032 may not earn credit in AIST 2032. (3 lect.)

ART 2076 – Illustration II. 3 credits (T)

This course will equip students to apply elements of image making, concept, style, composition, and the design process to the broad field of illustration. Students will learn to use traditional and nontraditional art materials and approaches (including digital) in the creation of illustrative images. Students will use and enhance an overall visual vocabulary which will include photography, drawing/painting, type, the elements/principles of art, and digital imaging. Prerequisite: Completion of ART 1005. (2 lect., 2 lab)

ART 2090 – Printmaking I. 3 credits (T)

This course is an introduction to the history, processes, and materials of both traditional and contemporary print making. The class will cover intaglio, lithography, relief, and mono printing. The development of ideas and concepts are encouraged through theory, criticism, and historical reference. (2 lect., 3 lab)

ART 2110 – Typography. 3 credits (E)

This course will focus on basic typographical terminology and various typesetting methods. The course will include an analysis of both historical and contemporary trends in type design, and the application of typography to the field of graphic design. (2 lect., 2 lab)

ART 2112 – Graphic Design I.**3 credits (T)**

This course will develop and hone students' skills in working with text and image as they create solutions to a series of design problems. Visual literacy will be increased through exposure to contemporary design issues and graphic design history. Students will expand their proficiency in all aspects of the design process, including creative brainstorming, conceptualizing, critical thinking, collaboration, and presentation. Students will work both by hand and digitally with industry standard editing programs. Prerequisite: Completion of ART 1110. (2 lect., 2 lab)

ART 2115 – Website Structure & Style.**3 credits**

This course addresses entry-level website coding using modern syntax to create page structures and apply corresponding styles. Topics covered include site hierarchy, page wireframing, usability, structure markup, stylizing content, web hosting, and file transfer management. (3 lect.)

ART 2130 – Graphic Design II.**3 credits (T)**

This course expands on the ideas and concepts introduced in Graphic Design I. Applied projects in the specific areas of graphic design will comprise most of the class. Prerequisite: Completion of ART 2112. (2 lect., 2 lab)

ART 2140 – Photography III.**3 credits**

This is an advanced course in photography with greater emphasis on individual projects or portfolios. Students will be expected to not only critique their own photography but also the work of their peers. Specific emphasis will be placed on development of focused thematic content. Prerequisite: Completion of ART 1160. (2 lect., 3 lab)

ART 2141 – Professional Practice in the Arts.**1 credit (T)**

This course is designed to provide a foundation of practical information to assist students in building a successful professional career in the visual arts. Students will research practical application of professional practices and business skills. Topics include locating and using arts information, career planning, and business practices specific to the visual arts. (1 lect.) **CLPE**

ART 2145 – Digital Photography I.**3 credits (T)**

This is an introductory course for the digital camera. Students will develop skills in pixel-based photographic design and printing. It will cover digital camera operation, photo editing, software, and printing. Development of artistic ideas and concepts is encouraged through theory, criticism, and historical reference. *Students MUST provide their own camera.* (2 lect., 3 lab) **ARTS**

ART 2146 – Digital Photography II.**3 credits (T)**

This is an advanced class in digital photography and image editing software within graphic design. Students will learn photographic and computer techniques essential for creating computer manipulated imagery. This course is designed to further develop the student's skills in pixel-based photographic design and printing. There will be an emphasis on precise exposure control with a focus on design and the history of photography. Digital images will be edited with Adobe Photoshop. Prerequisite: Completion of ART 2145. (2 lect., 3 lab) **CLCE**

ART 2150 – Color Photography I.**3 credits (T)**

This is a course in color photography with both lecture and lab work on camera use, reflective versus transmissive, and color theory as it applies to light. Study will emphasize the use of light and composition. The development of ideas and concepts are encouraged through theory, criticism, and historical reference. (2 lect., 3 lab)

ART 2178 – Digital Imaging II.**3 credits (T)**

This course builds on the ideas and design concepts presented in Digital Imaging. Students will use a variety of graphics software to solve design problems and create original works of visual art. The course will teach advanced methods of combining images and text, pictorial composition, and layout. Prerequisite: Completion of ART 1178 or instructor's permission. (2 lect., 2 lab)

ART 2210 – Painting I.**3 credits (E)**

This course is an introduction to all the elements of painting with emphasis on composition, color, and pictorial design. In addition, this course stresses development of technical skills related to paint and its application. (2 lect., 3 lab) **ARTS**

ART 2220 – Painting II.**3 credits (E)**

This is an intermediate course in painting. Students are encouraged to explore different paint media (oil, acrylic, watercolor, etc.) or to focus on one area of study. In addition, students will be encouraged to continue developing techniques and concepts related to painting. Prerequisite: Completion of ART 2210 or instructor's permission. (2 lect., 3 lab)

ART 2230 – Painting III.**3 credits (E)**

This is an advanced course in painting. Students are encouraged to explore different paint media (oil, acrylic, watercolor, etc.) or to focus on a specific medium of choice. Continued development of techniques and concepts related to painting will be encouraged. Specific emphasis will be placed on development of focused thematic content. Prerequisite: Completion of ART 2220 or instructor's permission. (2 lect., 3 lab)

ART 2310 (ART 1310) – Sculpture I.**3 credits (E)**

This course is an introduction to the fundamentals of sculpture. Traditional and contemporary concepts are investigated through a variety of medias. The development of ideas and concepts are encouraged through theory, criticism, and historical reference. (2 lect., 3 lab) **ARTS**

ART 2320 (ART 2330) – Sculpture II.**3 credits (T)**

This is an intermediate course in sculpture. Students are allowed the freedom to explore a variety of processes (additive, subtractive, and assemblage) and materials (stone or wood carving, welding/forging, found materials) or to focus on one area of study. In addition, students will be encouraged to continue developing techniques and concepts related to sculpture. Prerequisite: Completion of ART 1310 or instructor's permission. (2 lect., 3 lab)

ART 2330 (ART 2340) – Sculpture III.**3 credits (T)**

This is an advanced course in sculpture. Students are allowed the freedom to explore a variety of processes (additive, subtractive, and assemblage) and materials (stone or wood carving, welding/forging, found materials) or focus on one area of study. In addition, students will be encouraged to continue developing techniques and concepts related to sculpture. Specific emphasis will be placed on development of focused thematic content. Prerequisite: Completion of ART 2320 or instructor's permission. (2 lect., 3 lab)

ART 2345 – Art Metal Casting.**3 credits (T)**

This course is an examination of the bronze casting processes in sculpture. Students will learn the lost wax and sand casting methods, as well as the finishing procedures for bronze sculptures. The development of ideas and concepts are encouraged through theory, criticism, and historical reference. (2 lect., 3 lab)

COURSE DESCRIPTIONS

ART 2385 – Art Glass I. 3 credits (T)

This course is an introduction into the use of glass as an artistic medium. Slumping/fusing and stained glass processes will be explored by the student through a variety of hands-on projects. The development of ideas and concepts are encouraged through theory, criticism, and historical reference. (2 lect., 3 lab)

ART 2386 – Art Glass II. 3 credits (T)

This is an intermediate course in art glass in which students are allowed to explore different glass techniques or focus on one area of study. In addition, students will continue to develop techniques and concepts related to art glass. Prerequisite: Completion of ART 2385 or instructor permission. (2 lect., 3 lab)

ART 2387 – Art Glass III. 3 credits (T)

This is an advanced course in glass. Students are encouraged to explore different processes and techniques in glass that include stain/panel, slumping/fusing, and blowing of glass. Continued development techniques and concepts related to glass will be encouraged. Specific emphasis will be placed on development of a focused thematic content. Prerequisite: Completion of ART 2386 or instructor permission. (2 lect, 3 lab)

ART 2405 – Advanced Projects: 2D. 3 credits (Max 6) (T)

This is an advanced course where students using different two-dimensional media come together allowing individual development of concepts and techniques while still having the benefit of a class for input and criticism. Multiple instructors teach this course. Prerequisite: Instructor's permission. (2 lect., 3 lab)

ART 2406 – Advanced Projects: 3D. 3 credits (Max 6) (T)

This is an advanced course where students using different three-dimensional media come together allowing individual development of concepts and techniques while still having the benefit of a class for input and criticism. Multiple instructors teach this course. Prerequisite: Instructor's permission. (2 lect., 3 lab)

ART 2410 – Ceramics I. 3 credits (E)

This is an introductory course in ceramics. Both hand-building and wheel-throwing techniques in sculptural and functional pottery will be explored. Basic glaze application and kiln firing processes will be covered in this course. The development of ideas and concepts are encouraged through theory, criticism, and historical reference. (2 lect., 3 lab) **ARTS**

ART 2420 – Ceramics II. 3 credits (E)

This is an intermediate course in the exploration of wheel-thrown and hand-built techniques of ceramics, with further experimentation in glazes and firing. Design principles will be emphasized in this studio class. In addition, students will be encouraged to continue developing techniques and concepts related to ceramics. Prerequisite: Completion of ART 2410 or instructor's permission. (2 lect., 3 lab)

ART 2430 – Ceramics III. 3 credits (T)

This is an advanced course in ceramics. Students are allowed the freedom to explore a variety of ceramic forming techniques or to focus on one. Advanced kiln firing and glazing techniques will also be covered. In addition, students will be encouraged to continue developing techniques and concepts related to ceramics. Prerequisite: Completion of ART 2420 or instructor's permission. (2 lect., 3 lab)

ART 2475 – Studio Practice. 1 credit (Max 2) (T)

This course is designed to focus on the fundamentals of studio. Students will obtain hands-on experience in setting up and managing their own studio. Students will be paired with local or regional art studios (when possible) to gain practical knowledge of the working artist. (.5 lect., 1 lab)

ART 2480 – Special Projects: Drawing. 1-3 credits (Max 6) (T)

Special Projects: Drawing is designed for the student wishing to explore a single aspect or topic of drawing in depth. The course will be offered for 1, 2, or 3 credits depending on the topic and semester. Topics will be identified in the current schedule and will include courses such as anatomy, figure drawing, portrait drawing, pastel drawing, and mixed media with drawing. (.5 lect., 1 lab/1 lect., 2 lab/1.5 lect., 3 lab)

ART 2482 – Special Projects: Painting. 1-3 credits (Max 6) (T)

This course is designed for the student wishing to explore a single aspect or topic of painting in depth. The course will be offered for 1, 2, or 3 credits depending on the topic and semester. Topics will be identified in the current schedule and will include areas such as encaustic, oil, or watercolor. (.5 lect., 1 lab/1 lect., 2 lab/1.5 lect., 3 lab)

ART 2483 – Special Projects: Printmaking. 1-3 credits (Max 6) (T)

This course is designed for the student wishing to explore a single aspect of printmaking in depth. The course will be offered as 1, 2, or 3 credits depending on the topic and semester. Topics will be identified in the current schedule and will include areas such as silkscreen, monoprint, intaglio, and relief. (.5 lect., 1 lab/1 lect., 2 lab/1.5 lect., 3 lab)

ART 2484 – Special Projects: Photography. 1-3 credits (Max 6) (T)

This course is designed for the student wishing to explore a single aspect of photography in depth. The course will be offered as 1, 2, or 3 credits depending on the topic and semester. Topics will be identified in the current schedule and will include areas such as alternative photographic processes such as cyanotypes, color, non 35 mm formats, and platinum printing. (.5 lect., 1 lab/1 lect., 2 lab/ 1.5 lect., 3 lab)

ART 2485 – Special Projects: Ceramics. 1-3 credits (Max 6) (T)

This course is designed for the student wishing to explore a single aspect of ceramics in depth. The course will be offered as 1, 2, or 3 credits depending on the topic and semester. Topics will be identified in the current schedule and will include areas such as advanced throwing, hand-building, glazing and firing techniques. In some cases students may be required to provide their own greenware or bisque. Prerequisite: Completion of ART 2410 or instructor's permission. (1-3 lect.)

ART 2487 – Special Projects: Sculpture. 1-3 credits (Max 6) (T)

This course is designed for the student wishing to explore a single aspect of sculpture in-depth. This course will be offered as 1, 2, or 3 credits depending on the topic and semester. Topics will be identified in the current schedule and will include areas such as metals, addition or subtraction methods, assemblage, new media, and installation. (.5 lect., 1 lab/1 lect., 2 lab/1.5 lect., 3 lab)

PHTO 2350 – Media Photography I. 3 credits (T)

This course will focus on all aspects of journalism photography including the history and practical experience of media photography. Topics include advanced camera techniques, photo essay, newspaper and magazine photojournalism styles, and current trends in digital media photography. Prerequisite: Completion of ART 1150 or ART 2145 or instructor's permission. (2 lect., 3 lab)

ASTRONOMY**ASTR 1050 – Survey of Astronomy. 4 credits (E/SE)**

Survey of Astronomy is a one-semester course in descriptive astronomy. Subjects covered include, but are not limited to, historical astronomy, origin of the solar system, inner planets, outer planets, birth and evolution of stars, relativity, black holes, the Milky Way and other galaxies. This course is designed primarily for non-science majors. Prerequisite: Completion of MATH 0920 or test into MATH 0930 or higher. (3 lect., 3 lab) *LSCI*

ASTR 1070 – The Earth: Its Physical Environment. 4 credits (E/SE)

This course is a broad introductory level course in earth and space science covering topics from physical and historical geology, meteorology, oceanography, planetary astronomy and stellar astronomy. It illustrates fundamental concepts, processes, products and the relationships between them. The course emphasizes the nature of science and relationships between selected topics and society. This course serves elementary education majors (who should also enroll in EDEL 1450 concurrently or the next semester) as well as other non-science majors and general studies students. Students earning credit in ASTR 1070 may not also earn credit in GEOL 1070. This course cannot be used for LSCI credit toward a science major. Prerequisite: Completion of MATH 0920 or test into MATH 0930 or higher. (3 lect., 3 lab) *LSCI*

ATMOSPHERIC SCIENCE**ATSC 2000 – Intro to Meteorology. 4 credits (E/SE)**

Introduction to Meteorology is a study of the atmosphere, its composition, structure, and properties, with emphasis on the various processes responsible for weather, climate controls and change, and the impact of atmospheric phenomena on society. The course introduces students to the fundamental scientific principles of weather and climate through application to everyday, near real-time weather events. Students will analyze current weather data. Basic math and computer skills are required; access to the Internet and a printer are required. Prerequisite: Completion of MATH 0930 or MATH 1000 or test into MATH 1400 or higher. (3 lect., 3 lab) *LSCI*

ATSC 2110 – Intro to Climatology. 4 credits (T)

Introduction to Climatology is a study of the Earth's climate system utilizing historic and current environmental data. The course will emphasize the science of climate including the various processes responsible for defining climate on local, regional, national, and global scales. The course also addresses the social and societal impacts of climate change. Students will analyze historic, modern, and forecast climate data. Basic math, science, and computer skills are required. Prerequisites: Completion of MATH 0930, MATH 1000, or test into MATH 1400 or higher. (Access to the Internet and a printer are required) *LSCI*

AUTO PARTS SPECIALIST**PRSP 1500 – Basic Automotive Terms & Concepts. 3 credits**

This course focuses on the different automotive systems, how they function, and how the individual components of the system operate independently and as a complete system. Students will learn to apply correct technical terminology for the components vs. vernacular terminology. Students will learn the basic assembly and disassembly of certain repairable parts within an automotive system that will increase their working knowledge of the system or components. (3 lect.)

PRSP 1510 – Engine Controls & Sensors. 3 credits

This course is designed to teach the student differences between engine controls and sensors affecting fuel delivery, timing, spark, and emissions. Examination of systems will illustrate the system's functions and parts. (3 lect.)

PRSP 1520 – Heavy Duty Parts. 3 credits

This course is the study of components involved with semi-tractor trailers, off-road machinery, construction equipment, and agricultural machines. The purpose of this course is to develop parts familiarity within drive train systems, air brake systems, hydraulic braking systems, filtration systems, and diesel engines. (3 lect.)

PRSP 2500 – Parts Specialist I. 3 credits

This is an introductory course in which students will learn the techniques and responsibilities of a parts specialist involving counter sales, security, and invoicing. Invoicing will include processing returned goods and back orders, filling orders, shipping/receiving orders, and cataloging orders. Computer cataloging, parts classification and interchanging will also be emphasized. (3 lect.)

PRSP 2510 – Parts Specialist II. 4 credits

This course is a continuation of Parts Specialist I. In addition, students will be selling merchandise, ordering merchandise, and processing incoming and outgoing freight. Students will learn to use the basic computer system in the parts industry. Satisfying customers, calming an upset customer, maintaining quality in the work environment, and continually managing quality customer service will also be emphasized in this course. Prerequisite: Completion of PRSP 2500. (2 lect., 4 lab)

AUTOMOTIVE TECHNOLOGY**AUTO 1504 – Automotive Safety & Pollution Prevention. .5 credit**

This entry-level course is designed to satisfy Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) requirements for newly-hired employees in the automotive service sector. Upon successful completion of the course, students will be issued an S/P2 (Safety & Pollution Prevention) certificate that is nationally recognized as the industry standard for environmental and safety awareness training. (.5 lect.)

AUTO 1510 – Engine Systems Fundamentals. 3 credits

This is an introductory course emphasizing the operational principles of basic engine systems and overhaul of the automotive engine. Emphasis will be placed on proper use of precision measuring instruments and rebuilding tools, ability to locate and interpret engine specifications, engine diagnosis, and correct repair procedures. (1 lect., 4 lab)

COURSE DESCRIPTIONS

AUTO 1600 – Fuel Systems I. 3 credits

This is an introductory course in the theory, operation, diagnosis and repair of fuel systems. Emphasis will be on location and interpretation of specifications, proper use of test equipment, accurate diagnosis of malfunctions and the automotive fuel system to include electronic fuel injection and computer controlled carburetors, correct repair procedures, and drive-ability diagnosis. (1 lect., 4 lab)

AUTO 1690 (AUTO 2535) – Power Train Fundamentals. 4 credits

This course emphasizes the principles of operation, diagnosis, and repair of clutches, manual transmissions and trans-axles, drive-lines, differentials, and front-wheel drive units. Emphasis is placed on understanding the principles of torque multiplication and speed reductions through the use of gearing, location and interpretation of specifications, and correct troubleshooting and repair procedures. (2 lect., 4 lab)

AUTO 1730 (AUTO 2520) – Automatic Transmissions. 4 credits

This course encompasses the theory of operation, diagnosis, maintenance, and overhaul procedures of automatic transmissions and trans-axles with a major emphasis on the hydraulic systems and electronic controls used in automatic transmissions and trans-axles. (2 lect., 4 lab)

AUTO 1740 – Brake Systems. 4 credits

In the brake systems course, the students will learn the fundamentals of brake operation, service, and repair. Emphasis is on accurate systems inspection, diagnosis, location and interpretation of specifications, use of special tools and equipment, and correct repair procedures with regard to safety and legal responsibility. Students will be required to pass strict procedural testing to pass this course. (2 lect., 4 lab)

AUTO 1755 – Automotive Suspension & Alignment. 4 credits

The focus of this course is on the diagnosis, repair, and alignment of 2WD and 4WD front and rear suspension systems found on automobiles and light trucks. Students will be instructed in suspension evaluation techniques, parts replacement, and alignment strategies expected of entry level technicians. Students will be expected to determine problems with real vehicles, remove and replace components, and use alignment equipment to properly align the steering components on practice vehicles. Front suspension and alignment theory as well as hands on training is stressed in this course. (2 lect., 4 lab)

AUTO 1760 – Heating & Air Conditioning. 3 credits

This course introduces students to the operation, diagnosis, and servicing of automotive air conditioning and heating systems and components. Emphasis is placed on electronic climate control troubleshooting and repair. (1 lect., 4 lab)

AUTO 1765 (AUTO 1630) – Automotive Electrical Systems. 4 credits

This course teaches students the fundamentals of electricity and magnetism, basic DC circuits used in automotive electrical systems, use of meters, wiring diagrams, automotive wiring repair, and the location and interpretation of specifications. Emphasis is placed on theory, operation, diagnosis and repair of starting and charging systems. (2 lect., 4 lab)

AUTO 1770 (AUTO 1640) – Automotive Electronics. 4 credits

This course is an introduction to the basics of semiconductors, microprocessors and selected electronic devices used in automobiles. Theory, operation, diagnosis and repair of ignition computer control and electrical-electronic accessory systems are emphasized in this course. Students will use scan tools, lab scopes, a Digital Volt Ohm Meter, engine analyzers and various other diagnostic equipment to analyze electronic systems and determine necessary repairs. (2 lect., 4 lab)

AUTO 2630 (AUTO 1710) – Emission Systems. 3 credits

This course emphasizes the theory, operation and diagnosis of malfunctions of automotive emission control systems. Emphasis is placed on the location and interpretation of specifications, accurate diagnosis of malfunctions by proper use of test equipment, correct repair procedures, and diagnosis of drive-ability problems caused by malfunctions of the emission systems. (1 lect., 4 lab)

AUTO 2800 – Problems in Automotive Tech. 1-3 credits (Max 6)

This independent study course allows students to work on individualized learning projects related to their interest and occupational objectives in automotive technology. Students may earn one, two or three credits any one semester and may apply no more than six credits toward graduation. (4 hours lab per credit)

AUTO 2810 – Diagnosis & Tune-up Procedures. 4 credits

The course introduces students to the diagnosis, adjustments, and repairs of the system(s) that affect engine performance. Emphasis is placed on synthesizing skills taught in electronic systems, fuel and emission control courses. Students are taught to accurately use diagnostic equipment, apply proper tune-up procedures, and use specifications that assist in the interpretation of test results which enable the rapid isolation of malfunctions of a particular system or combination of systems in the automobile. (2 lect., 4 lab)

AVIATION

AVTN 2510 – Private Pilot Ground School. 3 credits

This course includes the study of Federal Aviation Regulations, flight dynamics, meteorology, navigation, and airport operations. This course is designed to fulfill the ground school requirement for the FAA Private Pilot Certificate. (3 lect.)

AVTN 2600 – Instrument Ground Training. 3 credits

This course includes the study of aircraft altitude control, flight maneuvers and flight based solely on instrument reference. Other topics covered include hazardous weather, interpreting weather data, FAA regulations and IFR procedures, flight dynamics, meteorology, navigation, and airport operations. This course is designed to fulfill the instrument ground school requirements for the FAA Pilot Instrument Rating. Prerequisite: Completion of AVTN 2510. (3 lect.)

BIOLOGY

BIOL 1002 – Discovering Science. 4 credits (E/S)

This course is an interdisciplinary course that integrates Biology, Chemistry, Physics, and Earth Science for non-science majors. Fundamental concepts from each discipline are addressed through lectures, while weekly laboratory activities and discussion groups enable the student to understand how to use science and incorporate science into large societal issues. (3 lect., 3 lab) *LSCI*

BIOL 1010 – General Biology I. 4 credits (E/SB)

This course is designed to provide a one-semester introduction to biology for non-majors and the first semester of a two-semester sequence for majors and others who wish to explore biology in greater depth. The course begins with a sequence that includes the cell as a fundamental unit of life, membranes, cell specialization and diversity, and cellular chemistry. The energy pathways and cycles making up the processes of photosynthesis and respiration are examined. A major amount of lecture and laboratory time is devoted to the important areas of genetics and evolution. Students earning credit in BIOL 1010 may not earn credit in BIOL 1020. (3 lect., 3 lab) *LSCI*

BIOL 1020 – Life Science. 4 credits (E/SB)

This is an introductory course emphasizing fundamental principles of biology including cell structure and function, genetics, ecology, evolution and organism 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. Students earning credit in BIOL 1020 may not earn credit in BIOL 1010. (3 lect., 3 lab) *LSCI*

BIOL 1080 – Intro to Environmental Science. 4 credits (E)

This course introduces students to the concepts of environmental science using principles from the fields of biology, ecology, and the physical sciences. The course focuses on themes of sustainability, stewardship and science. Emphasis is placed on the quantitative analysis of the impact of human activities on the environment and will include the topics of natural resource utilization and conservation, biodiversity, water, air and soil quality, and sustainable development. (3 lect., 3 lab) *LSCI*

BIOL 2002 – Global Ecology. 3 credits (E)

This course is intended to provide a global perspective on ecological processes, biodiversity, climate change and the environmental consequences of human actions. Students will develop an awareness of the role of global ecology in international human affairs and how this influences the relationships between the developed and developing worlds. Prerequisites: BIOL 1010 or BIOL 1020. (3 lect.)

BIOL 2005 – Natural History of Yellowstone. 4 credits

The Yellowstone ecosystem is the site for this course. Students will learn basic flora and fauna identification, ornithology, meteorology, glaciology, and geology, and examine the aftermath of the 1988 Yellowstone fires. Safety, judgment, leadership, outdoor skills and environmental ethics are stressed. Prerequisite: National Outdoor Leadership School (NOLS) permission required. (4 lect.)

BIOL 2020 – General Biology II. 4 credits (T/SB)

This course is a continuation of BIOL 1010. It includes classification of living organisms and a brief introduction to biodiversity. Major processes such as nutrient procurement and utilization, transport, gas exchange, information processing, reproduction and development are compared in major taxonomic groups. The topic of ecology is used as a focal point late in the course to integrate processes and biodiversity. Prerequisite: Completion of BIOL 1010. (3 lect., 3 lab)

BIOL 2045 – Natural History of Regional Ecosystems. 1-5 credits

This course is offered in conjunction with the National Outdoor Leadership School (NOLS). It involves immersion in the ecosystem, adapting to the natural rhythms of the Earth, which teaches students about cycles and behavioral adaptations at a guttural level. Class work in regional biota and ecology will provide students with information that is easily integrated with the environmental ethics of land management and low impact camping. Field natural history and basic field ecology are key to exploration and minimization of human effects on ecosystems. When this course is part of the NOLS semester, it must be taken concurrently with EDUC 2050 and G&R 2050. On certain semesters it is also taken concurrently with HLED 2010. NOLS semesters are taught experientially, so climate, season, terrain, participants, specific course selection, and other factors generally support some outcomes more than others. When required, this course may be taught by CWC directly and not as a part of a NOLS semester. Prerequisite: NOLS or instructor's permission. (1-5 lect.)

**BIOL 2415 – Ecology & Field Biology. 4 credits (T)**

Emphasizes the interaction between organisms and their terrestrial environment, including adaptation, competition, populations and community dynamics, and the ecosystem concept. Major emphasis in the laboratory will be on field studies, sampling techniques, and methods of analyzing data. Prerequisite: Completion of BIOL 1010. (3 lect., 3 lab)

BIOL 2425 – Mountain Environments: The Wind River Range. 3-4 credits

This three credit course is designed to provide an introduction to the principles of general science using the Wind River Range as a focal point. Major topics to be covered are: mountain geography and mechanisms of mountain formation, mountain climates and geomorphology, soils, vegetation and wildlife, and lakes and streams. Similarities and dissimilarities of the Wind River Range to other major mountain ranges of the North American Cordillera will be compared within the limits and context of the preceding topics. Students taking the three credit lecture portion of the class will receive an S/U grade only. (3 lect.)

The one credit laboratory is designed to present students with experiences relevant to the concurrent topics being covered in the three-credit lecture section. Students who complete both lecture and laboratory will receive four credits of laboratory science. Co-requisite: For four credit course, lecture must be taken concurrently with lab. (3 lect., 3 lab)

BUSINESS

Accounting

ACCT 1010 (ACCT 2010) – Principles of Accounting I. 4 credits (E/I)

A study of the basic principles of accounting as they apply to a sole proprietor business and a partnership. Prerequisite: Completion of MATH 0920 or test into Math 0930 or higher. (4 lect.)

ACCT 1020 (ACCT 2020) – Principles of Accounting II. 3 credits (E/L)

A study of the basic principles of accounting as they apply to corporation accounting, financial statements, managerial accounting, and planning and controlling business operations. Prerequisite: Completion of ACCT 1010. (3 lect.)

ACCT 1065 (ACTA 1550) – Computerized Accounting. 2 credits

This course will provide an introduction to accounting software and its application to the accounting cycle. Training will be provided in setting up the original accounting records for a business with the software and then in recording various accounting transactions. (1 lect., 2 lab) *IT*

ACCT 1750 – Income Tax. 3 credits (T)

This course is designed to have both personal and vocational value. Students will learn the latest tax information that is generally applicable to many taxpayers. This information will allow students to prepare their own tax returns intelligently and provides the necessary foundation for those who enter the vocation of preparing individual and business tax returns. Generally offered in spring only. (3 lect.)

ACCT 2050 (BADM 2050) – Governmental & Non-Profit Organizational Accounting. 3 credits

An introduction and study of the basic principles of accounting for governmental and non-profit organizations as they apply to accounting for governmental funds, proprietary funds, fiduciary funds and account groups. Generally offered in spring only. Prerequisite: Completion of ACCT 1010 or instructor's permission. (3 lect.)

ACCT 2230 – Intermediate Accounting. 4 credits (E)

The primary function of financial accounting is to provide useful financial information to users external to the business enterprises. The focus of financial accounting is on the information needs of investors and creditors. This course is a study of accounting principles and procedures with emphasis on analysis, interpretation, and controls required for both the business and providing external entities useful financial information. Financial statements studied include balance sheet, income statement and statement of cash flows. Besides financial statements, students will study income measurement and profitability analysis, time value of money concepts, and inventories. Prerequisite: Completion of ACCT 1020 (4 lect.)

ACCT 2240 (ACCT 2450) – Cost/Managerial Accounting. 3 credits (E)

An introductory investigation of fundamental principles of managerial cost accounting, such as accumulation and reporting of accounting information for product costing and standard costing, as well as information and processes useful in planning, decision-making and control activities. Generally offered in fall only. Prerequisite: Completion of ACCT 1010. (3 lect.)

Business

BUSN 2000 – Intro to International Business. 3 credits (E)

In order to remain competitive in today's market, all businesses must recognize and understand the international forces in the business environment. Firms must recognize and analyze these international forces to remain competitive. This course will be a broad survey of international business - with emphases placed on basic concepts of international trade activity, global economic and financial environment, international environmental forces, and strategic management for the global environment. Students will also develop cultural awareness and appreciation. (3 lect.)

Business Administration

BADM 1005 – Business Math I. 3 credits (T)

This applied math course focuses on real-world business problems. Students will calculate percentages, establish retail prices, calculate payroll, calculate simple and compound interest, evaluate investment opportunities, and learn to read and create graphs and charts. Prerequisite: Completion of MATH 0920 or test into MATH 0930 or higher. (3 lect.) *APPM*

BADM 1020 – Business Communications. 3 credits (T/WB)

Successful business professionals are effective communicators. This course will develop and sharpen students' written, oral and interpersonal communication skills. Students will explore crucial rhetorical issues that impact their ability to communicate and achieve specific objectives as business leaders. The psychology and mechanics of written business communication will be thoroughly explored and widely applied. Documents that demand careful planning and composition, solid content and argument, and logical organization and structure will be created. Non-written applications in business areas such as international/intercultural, nonverbal, interpersonal, and ethical communication will also be stressed. Prerequisite: Completion of ENGL 1010. (3 lect.) *WR2*

BADM 2020 – Business Law II: Commercial Law. 3 credits (E)

A study of the basic principles of the law of real property, landlord and tenant, bailments, sales, commercial paper, secured transactions and bankruptcy. Prerequisite: Completion of BADM 2010 or instructor's permission. Generally offered in spring only. (3 lect.)

BADM 2100 – Small Business Practices. 3 credits (T)

This course focuses on the fundamentals of entrepreneurship and small business operations. It deals with the how-to's of operating a small business, marketing and making management decisions as they relate to the small business owner. Generally offered in fall only. (3 lect.)

BADM 2105 – Small Business Management. 3 credits (T)

This course will cover the essentials of management for a business with one to fifty employees and will give the student a comprehensive understanding of critical small business issues. Topics include the impact of small business on our economy, essential small business management strategies, entrepreneurship, the business plan, financial statement literacy and capital requirements, marketing strategies, human resources, and legal issues. (3 lect.)

BADM 2340 – Business Law III: Business Organizations & Government Regulations. 3 credits (E)

This course is a study of the basic principles of agency, partnership, limited partnership, joint-venture, corporation and security regulation. Generally offered in spring only. Prerequisite: Completion of BADM 2010 or instructor's permission. (3 lect.)

Business Office Technology**BOTK 1540 – Business English. 3 credits**

This course will provide students engaged in a business or office curriculum with the English language writing skills that are required for a career in business today. It will involve an intensive survey of grammar skills, sentence structure, word usage, vocabulary building, efficient dictionary usage, spelling and word division. Proofreading skills will be emphasized. (3 lect.)

BOTK 1655 – Speed & Accuracy Development. 1 credit (Max 3)

This course is designed for the typist with some experience who desires to improve both speed and accuracy in keyboarding. Recommend: Students will need to meet with the instructor to determine their baseline keyboarding rate (minimum 25-30 words per minute). S/U grading only. (1 lect.)

BOTK 2900 – Office Systems & Procedures. 3 credits

Office procedure is the study and development of personal qualities, skills, and knowledge needed by successful office administrative assistants. The goal is to prepare students to provide support in a business environment. Office etiquette, telephone and mail procedures, receptionist techniques, reference source use, reprographics, travel arrangements, business ethics and etiquette, career opportunities, and preparation for employment will be discussed and reinforced with case studies and activities. (3 lect.)

Finance**FIN 1000 – Personal Finance. 3 credits (E)**

This course adopts a life-cycle approach to financial planning and is designed for students with diverse educational backgrounds. The emphasis is on practical application and decision-making involving personal budgeting, savings, credit scores, consumer credit cards and loans, insurance, financing major purchases, income tax, healthcare costs, investments, retirement, real estate, personal values, and social responsibility. (3 lect.) *FIN*

FIN 1001 – Personal Financial Planning. 1 credit (E)

This course is designed for students with diverse educational backgrounds and provides foundation instruction on the basics of real-world, personal financial topics. The emphasis is on practical application and decision-making involving personal budgeting, savings, time value of money, credit scores, consumer credit cards, and loans. (1 lect.) *FIN*

FIN 1002 – Personal Finance: Risk Credit Management. 2 credits (E)

This course is designed for students with diverse educational backgrounds and provides foundation instruction on the basics of real-world, personal financial topics. The emphasis is on practical application and decision-making. Besides personal budgeting, savings, time value of money, credit scores, consumer credit cards, and loans covered in this course, additional topics include income tax, insurance, buying a car, financing major purchases, fundamentals of investments, and healthcare costs. (2 lect.) *FIN*

Information Management**IMGT 2400 – Intro to Information Management. 3 credits (E)**

This course focuses on the role of information systems in managing organizations to make them more competitive and efficient. Specific topics include organizational and technical foundations of information systems and building and managing systems. (3 lect.)

Management**MGT 1040 (BADM 2010) – Business Law I. 3 credits (E)**

This is an introductory survey course providing a broad overview of business-related legal topics. Students are familiarized with the nature and sources of law, court systems, common law, statutory law, constitutional law, administrative law, consumer law, social responsibility and business ethics. Generally offered in fall only. (3 lect.)

MGT 1200 – Human Resources Management. 3 credits (T)

This course is designed to acquaint the prospective manager with issues related to organizing and staffing the work force. Specific attention will be given to legal issues, employment needs analysis, staffing, employee training, compensation and union relations. Generally offered in fall only. (3 lect.)

MGT 2000 (BADM 1000) – Intro to Business. 3 credits (E)

This course is an introduction to the study of business administration from the standpoint of management operating in a contemporary economic, political and social environment. (3 lect.)

MGT 2100 (MGT 1050) – Intro to Management. 3 credits (E)

This course is an introduction to the theory and practice of management. The basic management functions of planning, organizing, staffing, controlling, and leading will be emphasized. Human relations and communications will also be addressed. Students will be introduced to case problem analysis and develop teamwork skills. Generally offered in fall only. (3 lect.)

MGT 2110 (BADM 2030) – Business Ethics. 3 credits (E)

This course is designed to provide real world concepts and methods vital to both building a career as an organizational leader and as an ethical decision maker. The course requires the student to grapple with issues of vital importance to all businesses, including responsibilities to business and society, ethical issues, ethical leadership, organizational governance, responsible decision making, and managerial and strategic decision making. (3 lect.)

MGT 2130 – Human Relations. 3 credits (T)

This course is designed to help students become successful in predicting, understanding, and influencing the outcome of their inter-actions with others by better understanding themselves. The course will involve readings, group activities, class discussion and short essays to explore and analyze theoretical concepts of human relations and their application from a personal, interpersonal, and organizational perspective. The use of interactive instruction will develop the student's ability to solve problems and think critically about their relationships with themselves, their peers, and their co-workers. The course will provide students with human relations skills critical for successful employment in a supervisory capacity. Students earning credit in MGT 2130 may not earn credit in CO/M 2130. (3 lect.) *ORAL*

Marketing

MKT 1000 – Advertising & Sales Promotion. 3 credits (T)

This course provides students an opportunity to gain an understanding of advertising and other mass communications marketing practices: common business activities and terminology, perspectives applied when taking the optimal approach to decisions, plus descriptions and rationales of common practices (which are often far from optimal). The course places emphasis on developing students' abilities to express their analysis and recommendations in class discussion, student projects, and real-world testing and examination. (3 lect.)

MKT 1010 – Promotion I. 1 credit (Max 6) (T)

This course is designed to acquaint the student with the significance and scope of marketing, primarily promotion and public relations, as it pertains to producing an event or promotion of a specific product line. The primary purpose of the course is to build the relationship among product, place, promotion, and price to stimulate a potential market to attend an event or purchase the product. (1 lect.)

MKT 1020 – Promotion II. 2 credits (Max 12) (T)

This course is designed to acquaint the student with the significance and scope of business management as it applies marketing a specific event or promotion campaign. The primary purpose of the course is for the student to gain real life experience involved in producing an event or launching a campaign. From planning pre-promotional events, advertising, identifying sponsors supporting the event or campaign to actually producing the event or launching the campaign. The student will gain valuable insight into how business management and marketing applies to a business or a particular event industry. (2 lect.)

MKT 1510 – Entrepreneurial Marketing. 3 credits

Entrepreneurial marketing is designed to instruct learners how to create, develop, and execute marketing tactics to grow a successful business. A marketing plan will be created, which can be used as a tool to market successful businesses. The student will gain insights essential for marketing their entrepreneurial venture using innovative and financially responsible marketing strategies. The student will create effective marketing communication materials for use in his or her operation. The student will prepare a marketing plan to launch the entrepreneurial venture and implement the first two years of business operation. (3 lect.)

MKT 2010 – Problems in Business. 1-6 credits (Max 6) (T)

An independent study wherein students work on individualized learning projects related to their interest and occupational objectives in business. A student may earn up to three credits in any one semester, but may apply no more than six credits toward graduation. The specific topic will be named after the colon. Prerequisite: Instructor's permission. (3 lect./credit)

MKT 2100 (MKT 1200) – Marketing. 3 credits (E)

This course is designed to provide the student with the nature, significance, and scope of marketing. The primary purpose of the course will be to examine the relationship among product, place, promotion, and price in addition to examining marketing practices and problems. Generally offered in spring only. (3 lect.)

Medical

BOTK 2600 – Beginning Medical Transcription. 3 credits

This course emphasizes written communication skills using specialized terminology and transcription skills to transcribe dictated records into appropriate medical documents. Authentic physician dictation that is sequenced from simple to complex will be transcribed. Contents will encompass a full spectrum of terminology for each medical specialty. Recommend: Minimum keyboarding speed of 55 wpm, CMAP 1725. Prerequisite: Completion of NRST 1200 or concurrent enrollment. (3 lect.)

BOTK 2610 – Advanced Medical Transcription. 3 credits

This course is an advanced transcription course with continued emphasis on medical terminology and the production of medical reports dictated from actual medical cases. American Association of Medical Transcription (AAMT) guidelines will be used to ensure proper report formatting. Recommend: Minimum keyboarding speed of 55 wpm. Prerequisite: Completion of BOTK 2600. (3 lect.)

BOTK 2615 – Medical Law & Ethics. 3 credits

This course introduces the legal side of the medical office and provides a foundation of law to be used as a guide against which individual behavior may be measured. Students are exposed to the legal concepts of standard of care, scope of employment, criminal and civil acts, contracts and negligence. A strong emphasis is placed on ethics for medical office professionals and HIPPA issues are integrated throughout the course. (3 lect.)

BOTK 2622 – Medical Billing & Reimbursement. 3 credits

This course introduces students to health insurance and reimbursement. Students become familiar with common medical billing practices, the health insurance industry, legal and regulatory issues, and differences in reimbursement methodologies. Through extensive hands-on applications, students learn to use three major coding manuals: CPT, ICD-9-CM, and HCPCS. Prerequisite: Completion of NRST 1200 (3 lect.)

BOTK 2623 – Physician-Based Medical Coding. 3 credits

This course is the second course in a series that focuses on physician-based medical coding. Students will learn coding for anesthesia, radiology, pathology and lab, medicine and HCPCS, general surgery, musculoskeletal, respiratory surgery, and cardiovascular systems. The 50k series genitourinary system and 40k/60k series general surgery coding are also presented. Extensive hands-on application of principles related to the three main coding manuals (CPT, ICD-9-CM and HCPCS) is provided. Prerequisite: Completion of BOTK 2622. (3 lect.)

BOTK 2624 – Hospital-Based Medical Coding. 3 credits

This course introduces student to the principles of medical coding related to the coding for in-patient and out-patient hospital cases using ICD-9-CM Volumes 1, 2, and 3. In-depth practice of assigning codes, analyzing operative reports, and synthesizing information from medical charts will be provided. Prerequisite: Completion of BOTK 2623. (3 lect.)



CHEMISTRY

CHEM 1000 – Intro to Chemistry. 4 credits (E/SP)

This is a one-semester course dealing with the principles of chemistry as related to inorganic and organic systems. Emphasis is placed on understanding the scientific method and practical applications of chemistry for non-science majors. Critical thinking is used for chemical problem solving. Qualitative and quantitative analytical laboratory techniques are practiced. This course also serves as a course for those with insufficient background for CHEM 1020. Credit for CHEM 1000, toward a degree, is not allowed for science majors. Prerequisite: Completion of MATH 0920 or test into MATH 0930 or higher. (3 lect., 3 lab) **LSCI**

CHEM 1020 – General Chemistry I. 4 credits (E/SP)

This is the first semester of a two-semester course dealing with the general principles of chemistry as related to inorganic and organic systems. Specific course topics include: critical thinking, chemical problem solving, measurements, atomic theory, stoichiometry, chemical reactions, molecular structure and chemical bonding, gases, condensed states and solutions. Qualitative and quantitative analytical laboratory techniques are used. This course sequence is intended for those majoring in science or engineering. Students taking this course are encouraged to concurrently enroll in CHEM 1021 Chemical Problem Solving I. Prerequisites: Completion of MATH 0930; concurrent enrollment in MATH 1400 and one year of high school chemistry or integrated science recommended. (3 lect., 3 lab) **LSCI**

CHEM 1021 – Chemical Problem Solving I. 1 credit

This is a one-semester course designed to accompany CHEM 1020, for those seeking supplemental instruction in chemical problem solving. Emphasis will be on problems involving balancing equations, stoichiometry, heat and gas laws. (Offered in fall) Co-requisite: Enrollment in CHEM 1020. (1 lect.)

CHEM 1030 – General Chemistry II. 4 credits (E/SP)

This is the second semester of a two semester course dealing with the general principles of chemistry as related to inorganic and organic systems. This course sequence is intended for those majoring in science or engineering. Specific course topics include: critical thinking, chemical reactions, equilibria, solubility, acid-base, oxidation-reduction, kinetics, electrochemistry and thermochemistry. Other topics may be added if time permits. Qualitative and quantitative analytical laboratory techniques are used. Students taking this course are encouraged to concurrently enroll in CHEM 1031 Chemical Problem Solving II. Prerequisite: Completion of CHEM 1020, MATH 1400 highly recommended. (3 lect., 3 lab)

CHEM 1031 – Chemical Problem Solving II. 1 credit

This is a one-semester course designed to accompany CHEM 1030, for those seeking supplemental instruction in chemical problem solving. Emphasis will be on problems involving equilibria, kinetics, thermochemistry and electrochemistry. (Offered in spring) Co-requisite: Enrollment in CHEM 1030. (1 lect.)

CHEM 1090 – Fundamentals of the Physical Universe. 4 credits (E/SP)

This course is designed to apply fundamental physical science principles to real life situations. Concepts in chemistry and physics are used to study the nature of science and the relationships between science and society. Topics include the scientific method, motion, energy, light, matter, electricity and magnetism, waves, atomic and molecular structures and chemical reactions. Primarily for elementary education majors (who should also enroll in EDEL 1440 concurrently or the following semester), this course may be used as a laboratory science course for other non-science majors and general studies students. This course cannot be used as LSCI credit toward an A.S. degree in Biological Science, Earth and Environmental Science, Pre-Health Professional, Mathematics, Physical Science, Pre-Engineering or Environmental Science and Leadership. Students earning credit in CHEM 1090 may not earn credit in PHYS 1090. Prerequisite: Completion of MATH 0920 or test into MATH 0930 or higher. (3 lect., 3 lab) **LSCI**

CHEM 2230 – Quantitative Analysis. 4 credits (E)

A broad coverage of analytical techniques, principles and calculations. Emphasis on analytical methods commonly used in laboratories. Offered only with sufficient enrollment. Prerequisite: Completion of CHEM 1030. (2 lect., 6 lab)

CHEM 2300 – Introductory Organic Chemistry. 4 credits (E)

A one-semester course in organic chemistry and beginning biological chemistry, designed for nursing, home economics, education, general studies, and agriculture students. Practical application will be emphasized. Offered only with sufficient enrollment. Prerequisite: Completion of CHEM 1000 or CHEM 1020. Students earning credit in CHEM 2300 may not earn credit in CHEM 2320. (4 lect.)

CHEM 2320 – Organic Chemistry I. 4 credits (E)

The first semester of a one-year sequence in organic chemistry. The courses are approached from the viewpoint of modern chemical theory with special emphasis on structural and mechanistic concepts. Students desiring a one-semester terminal course should take CHEM 2300. Prerequisite: Completion of CHEM 1030. Students earning credit in CHEM 2320 may not earn credit in CHEM 2300. (3 lect., 3 lab)

CHEM 2340 – Organic Chemistry II. 4 credits (E)

The second semester of a one-year sequence in organic chemistry. The courses are approached from the viewpoint of modern chemical theory with special emphasis on structural and mechanistic concepts. Students desiring a one-semester terminal course should take CHEM 2300. Prerequisite: Completion of CHEM 2320. (3 lect., 3 lab)

CHINESE- SEE LANGUAGES

CISCO NETWORKING TECHNOLOGY

Students enrolled in Microsoft, Cisco, Linux and CompTIA certification courses (whether for credit or as an audit) must take the certification test at the time scheduled by the instructor. Students who fail the certification test the first time have the responsibility to reschedule and pay for any retest. Students who withdraw from a Microsoft, Cisco, Linux or CompTIA course forfeit the right to take the certification test with the class and must schedule and pay for the test themselves.

CSCO 2000 – Cisco: Internetworking I. 5 credits

This course is for students with basic computer skills and a minimal background in networking. This course provides instruction in safety, networking, network terminology and protocols, network standards, LANs, WANs, OSI models, cabling, cabling tools, routers, router programming, and IP addressing. Particular emphasis is given to the use of decision-making and problem-solving techniques in applying science, mathematics, communication, and team building concepts to solve networking problems. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment. Prerequisite: Basic computer skills and literacy recommended. (5 lect.)

CSCO 2020 – Cisco: Internetworking II. 5 Credits

This is the second course for students wishing to take the Cisco Certified Network Associate exam. Topics taught include advanced router configurations; local area network switching theory and design; Novell IPX wide area network theory, design and technologies; and network troubleshooting skills. The CCNA Certification Exam is required at the conclusion of this course. Prerequisite: Completion of CSCO 2000. (5 lect.)

Co-CURRICULAR

COCR 1000 – Cultural Appreciation. 1 credit (T)

This course is designed to meet the requirements for the Cultural Appreciation General Education Requirement. Specific topics will be identified in the current course schedule. Cultural Appreciation is fostering an understanding of the beliefs, behaviors, objectives, and other characteristics common to the members of a culture(s). (1 lect.) *CLCA*

COCR 1005 – Community Engagement. 1 credit (T)

This course is designed to meet the requirements for the Community Engagement General Education Requirement. Specific topics will be identified in the current course schedule. Community Engagement is actively identifying a need within a community, developing a plan to address the need (including identifying required resources and partnerships) and implementing steps toward a solution. (1 lect.) *CLCE*

COCR 1010 – Professional Experience. 1 credit (T)

This course is designed to meet the requirements for the Professional Experience General Education Requirement. Specific topics will be identified in the current course schedule. Professional Experience is engaging in an activity where learning is applied in a professional setting. (1 lect.) *CLPE*

COMMUNICATION

(ALSO SEE RADIO/TV/FILM)

CO/M 1005 – Intercultural Communication. 3 credits (T)

This course is designed to provide the student with the knowledge, skills, and tools to effectively function in intercultural environments, situations, and relationships. Within this process, one focus will be communication between the American Indian and Euro-American cultures, although many different cultures will be included in this experience. The theoretical foundations and systematic structure of communication processes will lay the foundation from which intercultural relationships will be examined. Students earning credit in CO/M 1005 may not earn credit in AIST 1005. (3 lect.)

CO/M 1010 – Public Speaking. 3 credits (E/O)

This public speaking course includes an examination of theoretical elements common to all speaking situations. The emphasis is on practical application; students are required to present a number of speeches. (3 lect.) *ORAL*

CO/M 1030 – Interpersonal Communication. 3 credits (E)

This introductory course focuses on basic communication concepts and face-to-face interaction, analysis and description. It explores theoretical concepts and their application to everyday communication with the two-person relationship as the basic unit of analysis. Experiential exercises complement lectures and discussions. (3 lect.) *ORAL*

CO/M 1040 – Intro to Human Communication. 3 credits (E)

This course is an introduction to the process of human communication. Six major areas of communication studies will be examined: inter-personal, intercultural, small group, public, mass, and organizational. This course is designed to combine theory and practice to increase both understanding and skills from each perspective. The course will discuss the evolution of communication theory, current trends, and possible areas for future research. A range of employment opportunities in the discipline of communication will also be explored. (3 lect.)

CO/M 1050 – Conflict Management & Mediation. 3 credits (T)

This course begins from the premise that conflict is part of everyday life. It is as common as laughter, anger, and love and is probably no less important than any of these. Conflict is a natural, inevitable, and potentially beneficial part of our personal and professional lives. It can reveal injustices, usher in much needed change, and be a source of personal growth, social transformation, and reconciliation. On the other hand, conflict can also breed resentment and alienation, and may be waged with all manner of destructive violence, including war. This course provides an introduction to a range of potentially positive conflict management processes. It blends theory, research, and practical skills to help better understand and manage conflicts. (3 lect.)

CO/M 1060 – Forensics I. 1 credit (T)

This course is designed for students who compete in their first and second semester of competition in intercollegiate speech activities such as debate, platform, oral interpretation, and limited preparation events sponsored by the American Forensic Association (AFA), Phi Rho Pi, and National Parliamentary Debate Association (NPDA). Students enrolled in this course develop and advance their skills in the appropriate strategies for research, literary criticism, communication analysis, speech composition, speech delivery, and critical thinking. Because of the academically rigorous environment in which students will participate, students should expect to dedicate ten to fifteen hours per week for preparation, time of which two to five hours per week will be with the instructor and the remaining hours are outside of classroom. Prerequisite: Consent of the Instructor. (2 lab)

CO/M 2060 – Forensics II. 1 credit (E)

This course is designed for students who are starting their third semester of competition in intercollegiate speech activities such as debate, platform, oral interpretation, and limited preparation events sponsored by the American Forensic Association (AFA), Phi Rho Pi, and National Parliamentary Debate Association (NPDA). Students enrolled in this course continue to advance their skills in the appropriate strategies for research, literary criticism, communication analysis, speech composition, speech deliver, and critical thinking. In addition, students will learn the process of tournament function and students are introduced to coaching practices and principles. Because of the academically rigorous environment in which students will participate, students should expect to dedicate ten to fifteen hours per week for preparation, of which five to ten hours per week will be with the instructor and the remaining hours are outside of the classroom. Prerequisite: Consent of the instructor and complete 2 credits of CO/M 1060. (2 lab)

CO/M 2090 – Persuasion. 3 credits (E)

This course is a blend of lecture, discussion, and application exercises to familiarize students with theories and practices of persuasion. Major topics include: the importance of persuasion, the cognitive approach to persuasion, the source of persuasive messages, ethical concerns, purpose and audience, organization, reasoning, language, persuasion in advertising, and persuasion in political messages. (3 lect.)

CO/M 2100 – Reporting & Newswriting. 3 credits (E/WB)

This course is designed to provide the student with a solid introduction to the theory and practice of journalistic writing used in writing for newspapers, magazines and other forms of printed media. CO/M 2100 will require writing for a variety of purposes and audiences, including the interdisciplinary research skills of locating, evaluating, analyzing and organizing information in at least one extensive writing assignment. The course will also address journalistic ethics and the role of writing in contemporary society. Students further refine their writing through revision and editing, and practice the accepted conventions of Standard English. Prerequisite: ENGL 1010. (3 lect.) *WR2*

CO/M 2110 – Nonverbal Communication. 3 credits (E)

This course is designed to acquaint students with non-linguistic form of communication. It explores the theories and elements of nonverbal communication such as physical appearance, smell, proxemics, gestures, paralanguage, and the effects these elements have in the communication process. Students analyze diverse communication contexts and discuss communication strategies and appropriate nonverbal behaviors in such contexts. Prerequisite: Completion of CO/M 1030 or CO/M 1040. (3 lect.)

CO/M 2130 – Human Relations. 3 credits (T)

This course is designed to help students become successful in predicting, understanding, and influencing the outcome of their inter-actions with others by better understanding themselves. The course will involve readings, group activities, class discussions and short essays to explore and analyze theoretical concepts of human relations and their application from a personal, interpersonal, and organizational perspective. The use of interactive instruction will develop the student's ability to solve problems and think critically about their relationships with themselves, their peers, and their co-workers. The course will provide students with human relations skills critical for successful employment in a supervisory capacity. Students earning credit in CO/M 2130 may not earn credit in MGT 2130. (3 lect.) *ORAL*

CO/M 2135 – Gender & Communication. 3 credits (T)

This course examines communication arenas from a perspective that focuses on gender and includes study of similarities and differences in female/male patterns. Major topics include: developing gender roles and identities, verbal and non-verbal styles of gendered expression, gendered perception and listening styles, gendered communication and friendship, romance, and family, gender communication in the classroom and workplace, and gender and the mass media. (3 lect.)

CO/M 2150 – Argumentation. 3 credits (E)

This course is designed to provide a theoretical framework for studying the principles of argumentation through understanding fundamental argumentation theories and the foundations of structuring propositions. Successively, emphasis will be on the ability to distinguish between proposition and claim types, the development of informal logic, strategies for research, the capacity to distinguish acceptable for spurious evidence, and case construction. Practical application will result with the students successfully creating an effective speech presentation generating belief and conviction. (3 lect.)

CO/M 2250 – Organizational Communication. 3 credits (E)

This course takes a theoretical approach to the practice and study of communication within organizational settings, including the study of classical theories, human relations theories, human resources theories, and system theories. The most common organizational communication variables are reviewed (e.g., organizational structure, gender and cultural roles, conflict, power, and managerial leadership style). Applying the principles of theories and the contextual impact of the variables will provide students with a repertoire of useful analytic tools for describing, analyzing, critiquing, and improving organizational communication. Prerequisite: Completion of CO/M 1030 or CO/M 1040. (3 lect.)

CO/M 2260 – Interviewing. 3 credits (E)

This course introduces students to interviewing concepts through the process of interpersonal communication. How to structure the interview and develop questions for both informational and persuasive interviews will be emphasized. Students study and apply interview techniques, including styles, accurate note-taking, the process of retelling people's stories, and active listening. Students will analyze live and taped interviews and impart information through interviewing in both private and public situations. (3 lect.)

COURSE DESCRIPTIONS

CO/M 2270 – Public Relations. 3 credits (T)

The course covers the history of public relations, its theoretical basis as well as the legal and ethical environment. The core issues and process that underlie public relations are detailed, as well as the descriptions of the publics that are the objects of these efforts. A summary of the practice of public relations, the emerging trends of the profession, and issues with crisis management are discussed. Case studies provide opportunities for student discussion and interaction with concepts. Prerequisite: Completion of CO/M 1030 or CO/M 1040. (3 lect.)

CO/M 2470 – Cinema History. 3 credits (E)

This course is designed to enhance the student's understanding, appreciation and critical perceptions of cinema as an art form and cultural force. A historical survey approach is used to trace the artistic and technical development of cinema from its origins to today. Significant world films representing key historical periods, styles and national movements will be screened in class and analyzed within their historical and cultural contexts. (2 lect., 2 lab) **HUM**

COMPUTER SCIENCE

(ALSO SEE CISCO NETWORKING TECHNOLOGY, MICROSOFT, MICROSOFT OFFICE SPECIALIST)

Students enrolled in Microsoft Office Specialist, Microsoft, Cisco, Linux and CompTIA certification courses (whether for credit or as an audit) must take the certification test at the time scheduled by the instructor. Students who fail the certification test the first time have the responsibility to reschedule and pay for any retest. Students who withdraw from a Microsoft Office Specialist, Microsoft, Cisco, Linux or CompTIA course forfeit the right to take the certification test with the class and must schedule and pay for the test themselves.

Computer Applications

CMAP 1500 (CMPA 1600) – Computer Keyboarding. 1 credit

This course is designed for the non-typist who desires to learn the keyboard for use with computers. It introduces the touch operation of the alphabetic and numeric keyboard. (S/U grading only) (1 lect.)

CMAP 1615 (COSC 1020) – Operating Systems. 3 credits (Max 6)

The course introduces the student to basic functions of a microcomputer operating system and syntax routinely used by microcomputer operators. Fundamentals of managing disks, files, directories, subdirectories, multi-tasking, etc. will be addressed. When the course is offered, the course title listed in the CWC course schedule will indicate the current modern microcomputer operating system being addressed. Prerequisite: Completion of CMAP 1500 or instructor's permission. (3 lect.)

CMAP 1650 – Intro to Networking. 3 credits

This is an introductory course focusing on configuring, managing and troubleshooting the elements of a basic network infrastructure. The course is structured to introduce students to networking basics, cables and connectors, networking devices, Ethernet, implementing a network, wireless and wide area networks. Basic network security, management, and troubleshooting are included. (3 lect.)

CMAP 1680 – Microcomputer Applications 3 credits (T)

This is a non-technical course for students with minimal or no computer experience. Students are introduced to basic computer concepts and techniques, including operating systems and application software (word processing, spreadsheets, presentation and database). Prerequisite: Completion of CMAP 1500 or keyboarding experience. (3 lect.) **IT**

CMAP 1685 (CMAP 1515) – Using Computers In. .5-3 credits (Max 6)

This course offers training in contemporary computer systems and/or application programs. This course cannot be used as a general education requirement but can be used as a major requirement in Business/Computer Science programs and as a general elective in other programs. (.5-3 lect.)

CMAP 1725 (CMAP 1715) – Word Processing Applications. 3 credits (T)

This comprehensive course covers basic to advanced word processing theory and applications. Students acquire advanced word processing skills in formatting, working with columns and tables, collaborating, integrating with other applications, working with master documents, customizing toolbars and creating macros. Emphasis will be on helping students increase productivity and efficiency. Students earning credit in CMAP 1725 may not earn credit in MOUS 1725. Recommend: CMAP 1680, COSC 1200 or computer experience. (3 lect.)

CMAP 1775 (CMAP 1765) – Spreadsheet Applications. 3 credits(T)

This comprehensive course instructs students in both the basic and advanced features of spreadsheet software. Business applications are emphasized to prepare students to use spreadsheets in the business world. Students receive in-depth instruction in formatting; using range names, formulas, and functions; creating charts; performing database management; auditing; creating and using macros; importing/exporting data; creating and using templates; and creating and using workgroup functions. Students earning credit in CMAP 1775 may not earn credit in MOUS 1775. Recommend: CMAP 1680, COSC 1200 or computer experience. (3 lect.)

CMAP 1815 – Database Applications. 3 credits

This course instructs students in the use of database programs on microcomputers. Business applications are included to prepare students to use database software in the business world. The topics covered include query and report generation, switchboards, access basics, and customized applications. Students who earn credit in CMAP 1815 may not earn credit in MOUS 1815. (3 lect.)

CMAP 1920 – Hardware Maintenance. 4 credits (T)

This course will provide a basic working knowledge of personal computer hardware components and system design. The course includes hands-on experience in component installation and upgrading. Troubleshooting techniques will be emphasized including hands-on experience in debugging problematic systems. Prerequisite: Completion of COSC 1200 or instructor's permission. (4 lect.)

CMAP 2510 – Survey of Multimedia. 3 credits

This course introduces students with previous computer experience to the concepts, elements, and skills of multimedia. Students are introduced to the e-Learning industry and observe examples of training projects created in the corporate world. Students are taught basic skills in graphic design, video editing, web authoring, web animation, rich media, and audio editing. Important web design concepts, including analysis, visual and functional design, media production and acquisition, evaluation, and project management are presented. (3 lect.)

Computer Science**COSC 1000 – Computer Programming. 3 credits (T)**

This course addresses entry-level structured programming using the Visual Basic language. Topics covered include assignment, input/output, arithmetic, looping and decision structures, designing the user interface forms, sub-procedure creation, and array handling. The course content emphasizes the power and flexibility of this popular high-level language. Prerequisite: Completion of MATH 0930 or test into MATH 1400. Co-requisite: CMAP 1500 (or demonstrated keyboard proficiency). (3 lect.)

COSC 1010 – Intro to Computer Science I. 4 credits (E)

This course provides an introduction to the fundamental concepts of computer programming, computer programming languages, and soft-ware engineering. The emphasis throughout the course is preparation for continued computer science studies. A modern programming language is used as the tool to develop computer programs. Prerequisite/Co-requisite: Completion of MATH 1400, concurrent enrollment in MATH 1400, or an appropriate score on the MATH placement test to demonstrate mastery of math skills covered in MATH 1400. (3 lect., 2 lab)

COSC 1030 – Computer Science I. 4 credits (E)

This course studies algorithmic problem solving using principles of structured programming and object-oriented design. Algorithms are implemented in a high-level object-oriented programming language. Graphical user interfaces are used to motivate the object approach. Programming exercises and experimentation with software in a closed laboratory supplement the discussion. Prerequisite: Completion of COSC 1010. (3 lect., 2 lab)

COSC 2020 (CMAP 2570) – Intro to Linux. 3 credits

This is an introductory course in the Linux operating system. This course provides students with knowledge and skills in the following areas: installation, networking, administration, printing, working with the command line, and configuration of the X Windows environment. No previous experience with Linux is required. Prerequisite: Basic understanding of computer operating systems. (3 lect.)

COSC 2025 – Intermediate Linux. 3 credits

This is an intermediate course in the Linux operating system. This course provides the student with knowledge in the following areas: custom installation, system administration, shell programming, networking services, security, and troubleshooting. This course will help prepare the student for the Linux+ certification exam sponsored by CompTIA. Prerequisite: Previous experience with the Linux operating system is required or completion of COSC 2020. (3 lect.)

Computer Security**CSEC 1500 – Computer Network Security +. 3 credits**

This is a technical course for students with prior computer experience. The course focuses on controlling security, access, and the network infrastructure. Topics taught in this course include access control, cryptography, network infrastructure, attacks, and security. Students will examine system security, application of security, organizational security and assessments and audits. Students should strongly consider taking CMAP 1650 (Introduction to Networking) prior to taking this course or have some prior experience working with computer networks. (3 lect.)

CONSTRUCTION TECHNOLOGY**CNTK 1505 – Intro to Construction Technology. 3 credits**

This course is an introductory course designed to inform students about the basic fundamentals and principles of construction technology. The course includes orientation to the trade; wood building materials, fasteners, and adhesives; and the use and care of hand and power tools. (2 lect., 2 lab)

CNTK 1510 – Workplace Safety & Tools. 3 credits

This course is designed to familiarize students with the safety obligations of workers, supervisors, and managers on a construction site. Students are introduced to commonly used hand and power tools; their applications, maintenance, and safety issues. (2 lect., 2 lab)

CNTK 1515 – Communication & Employability Skills. 1.5 credits

This course is designed to provide students with techniques for communicating effectively with co-workers and supervisors and includes the importance of verbal and written information and instructions on the job. The course also identifies the roles of individuals and companies in the construction industry and introduces students to critical thinking, problem-solving skills, computer systems, and industry applications. Relationship skills, effective self-presentation, and key workplace issues, such as sexual harassment, stress, and substance abuse are studied. Prerequisite: Completion of CNTK 1510 or concurrent enrollment. (1.5 lect.)

CNTK 1520 – Residential Blueprint Reading. 3 credits

This course is designed to instruct students in how to interpret and use blueprint terms, components, and symbols. Students will be exposed to civil, architectural, structural, mechanical, and electrical blueprint drawings and will learn how to use drawing dimensions and scales to measure drawings. Students will also use basic mathematical functions and geometry and their application in the construction trades. Prerequisite: Completion of CNTK 1510 or concurrent enrollment. (2 lect., 2 lab)

CNTK 1530 – Site Preparation & Layout. 3 credits

This course covers the principles, equipment, and methods used to perform the site layout process. The course includes using a site/plot plan to locate the foundation and utility lines to the house. The course includes an introduction to concrete and reinforcing materials that are used when building a residential structure. Prerequisite: Completion of CNTK 1520 or concurrent enrollment. (2 lect., 2 lab)

CNTK 1650 – Framing: Floors & Stairs. 2 credits

This course is designed to teach students the basic framing concepts for constructing a wood floor system using common lumber as well as engineering building materials. The course also includes the laying out and construction of wooden stairs used in residential construction. Prerequisite: Completion of CNTK 1520 or concurrent enrollment. (1 lect., 2 lab)

CNTK 1652 – Framing: Walls, Windows, & Exterior Doors. 2 credits

This course is designed to teach the student procedures in laying out and framing walls, wall openings, and applying wall sheathing using common lumber and plywood or other exterior sheathing. The course also includes the procedures for installing exterior doors and windows and selecting and installing metal framing for interior walls and partitions. Prerequisite: Completion of CNTK 1650 or concurrent enrollment. (1 lect., 2 lab)

COURSE DESCRIPTIONS

CNTK 1654 – Framing: Roof. 2 credits

This course is designed to teach the student procedures for lying out gable or hip roofs using stick built rafters and engineered trusses. This course includes instruction in erecting a gable roof using sheathing and trusses. Prerequisite: Completion of CNTK 1652 or concurrent enrollment. (1 lect., 2 lab)

CNTK 1658 – Exterior: Siding, Trim, & Finishes. 2 credits

This course is designed to teach the student how to identify and install various types of exterior finish, roofing materials, and thermal protection for residential structures. Prerequisite: Completion of CNTK 1654 or concurrent enrollment. (1 lect., 2 lab)

CNTK 1880 – Interior: Drywall Applications. 2 credits

This course is designed to teach the student how to plan, select, and install gypsum drywall on walls and ceilings in a residential structure. Instruction includes estimating material requirements, selecting and installing fasteners, and installing sound/fire rated walls. This course is presented in conjunction with CNTK 1882 Interior: Taping, Mudding and Texturing. (1 lect., 2 lab)

CNTK 1882 – Interior: Taping, Mudding, & Texturing. 2 credits

This course is designed to teach the student how to tape, mud, and texture interior drywall walls and ceilings in a residential structure. Instruction includes estimating material requirements and finishing the surface to meet industry standards. Prerequisite: Completion of CNTK 1880 or concurrent enrollment. (1 lect., 2 lab)

CNTK 1884 – Interior/Exterior Painting: Avoiding & Correcting Painting Problems. 2 credits

This course is designed to teach the student how to identify and apply the different types of interior/exterior paint and other finishing materials used in a residential structure, as well as avoiding and correcting painting problems. Instruction includes estimating material requirements and finishing the surface to meet industry standards. (1 lect., 2 lab)

CNTK 1920 – Interior Trim: Closets. 2 credits

This course is designed to teach the student how to design and construct closet systems in a residential structure. Instruction includes estimating material requirements and installing hardware to meet industry standards. (1 lect., 2 lab)

CNTK 1924 – Interior Trim: Cabinets. 2 credits

This course is designed to teach the student how to select and install base and wall cabinets and countertops in a residential structure. Instruction includes estimating material requirements and installing hardware to meet industry standards. (1 lect., 2 lab)

CNTK 1926 – Interior Trim: Molding. 2 credits

This course is designed to teach the student how to identify, select, and install trim used in finish work. The course also includes instruction on the layout and installation of suspended ceilings and related ceiling tile suspension systems. (1 lect., 2 lab)

COOPERATIVE EDUCATION

CPED 1000 – Cooperative Work Experience I. 3 credits

Cooperative work experience is a process of education which formally integrates a student's academic and/or career interest with related paid work experiences in cooperating employer businesses. The teaching faculty, cooperative education coordinator, and the employing supervisor all share in working with a student in developing the training plan for the student. Students may expect to work ten hours per week in an approved occupation. Online discussions will address workplace related areas of human relations, legal work environment, etc. Prerequisites: A declared area of emphasis and permission of faculty coordinator and advisor. (1 lect., 10 hours per week work experience.) **CLPE**

CPED 1900 (PDEV 0500) –Workplace Readiness. 1-3 credits (Max 3)

This course prepares students to function effectively in the changing work environment. They develop skills in problem-solving, teamwork and self-management. (1-3 lect.)

CPED 2000 – Cooperative Work Experience II. 3 credits

This course is a continuation of the Cooperative Work Experience I course. Cooperative work experience is a process of education which formally integrates a student's academic and/or career interest with related work experiences in cooperating employer businesses. The teaching faculty, the cooperative education coordinator, and the employing supervisor all share in working with a student in developing the training plan for the student. Students may expect to work ten hours per week in an approved occupation. Online discussions will address workplace related areas of human relations, legal work environment, etc. Prerequisites: A declared area of emphasis, 12 semester hours of college work, permission of faculty coordinator and advisor and completion of CPED 1000. (1 lect., 10 hours per week work experience.)

CPED 2980 – Cooperative Work Experience III. 3 credits

This course is a continuation of the Cooperative Work Experience II course. Cooperative work experience is a process of education which formally integrates a student's academic and/or career interest with related work experiences in cooperating employer businesses. The teaching faculty, the cooperative education coordinator, and the employing supervisor all share in working with a student in developing the training plan for the student. Students may expect to work ten hours per week in an approved occupation. Online discussions will address workplace related areas of human relations, legal work environment, etc. Prerequisites: A declared area of emphasis, permission of faculty coordinator and advisor and completion of CPED 2000. (1 lect., 10 hours per week work experience.)

COUNSELING

CNSL 1310 – Personal Growth Group. 1 credit (T)

This course is designed to provide the student with an opportunity to participate in a personal growth group. The student will be exposed to the basics of group rules, group dynamics, and the various stages that groups typically pass through. (1 lect.)

CNSL 2100 – Case Management. 3 credits (T)

Students will obtain a broad overview of the integral role of case management services in achieving the mission of human services agencies of today. Professional ethics, Federal and State confidentiality requirements, client advocacy, and special requirements of substance abuse agencies will be explored. Students will demonstrate proficiency in developing and presenting a case plan. (3 lect.)

CNSL 2300 – Counseling for Helping Professions. 3 credits (E)

This course presents instruction and practice in basic counseling and communication skills. It emphasizes listening, responding, encouraging, and initiating change in interpersonal communication through mediation and conflict resolution. (3 lect.)

CNSL 2310 – Intro to Group Counseling. 3 credits (T)

In this course the student will learn about group counseling by being a group participant in a personal growth group. Group theory will be examined. Group concepts of: setting group rules, self-disclosure, giving and receiving feedback, phases of groups, structured activities, experiential learning, and leadership will be some of the topics explored. (3 lect.)

CNSL 2320 – Addictions Assessment. 3 credits (T)

In this course the student will examine the various tools used to help in the assessment of alcohol dependence and other addictions. Students will practice using these tools including the Alcohol Severity Index (ASI), which is required by the state of Wyoming when screening individuals for addiction. A focus of the course will be on determining if an individual is chemically dependent, and if so, how severe is the addiction. Proper referral to treatment centers will also be addressed. It is recommended that students take HMSV 2130 prior to or concurrently with this course. (3 lect.)

CNSL 2330 – Counseling Diverse Populations. 3 credits (T)

This course is designed to increase students' awareness of unique needs of diverse populations in the helping professions. The groups, including men, women, elderly, disabled, homeless, gay and lesbian, and cultural minorities will be examined. Special focus will be placed on the unique needs of these subcultures as related to substance dependence treatment and recovery. (3 lect.)

CNSL 2340 – Theories of Counseling. 3 credits (T)

This introductory course in counseling theories will provide an overview of the major theories of counseling. Humanistic, behavioral, cognitive, and gestalt theories are among the theories to be examined. Theories of counseling used with chemically dependent clients will also be examined. (3 lect.)

CRIMINAL JUSTICE**CRMJ 1020 (POLS 1020) – Intro to Law Enforcement. 3 credits**

This course focuses on the roles, duties and responsibilities of the police officer, particularly the uniformed patrol officer. It examines the distribution of police officers and the management and supervision of those officers, as well as the organization of police departments, the selection of police officers, police operations and critical issues in policing today. (3 lect.)

CRMJ 1170 (POLS 1170) – Law Enforcement, Ethics & Justice.**3 credits**

This course is an examination of the ethical and value-based discretionary decisions that police officers deal with on a regular basis. Police deviance will be addressed as to causal analysis and prescriptions for controlling such areas as police corruption, brutality and abuse to citizens. (3 lect.)

CRMJ 1500 – Basic Virtual Firearms Training. 1 credit

The focus of this course is on developing critical thinking, communication, and time-sensitive judgmental decision-making skills in simulated dangerous, stressful, and emergency situations. This course consists of a brief introduction on the use of certain law enforcement weapons, both lethal and less lethal, and the use of state-of-the-art Virtual Firearms Training Technology in safe and controlled environments to assist in the development of these skills. Students will be required to respond to scenarios involving continuum of force decisions. The focus of this course is not on firearms skills, handling of firearms, or proficiency with firearms. This course is not intended to, nor does it, qualify the student to meet any certification, licensing, or any other requirement for weapon ownership, possession, use or safety. (1 lect.)

CRMJ 1505 – Intermediate Virtual Firearms Training. 1 credit

This course is a continuation of Basic Virtual Firearms Training (CRMJ 1500), and furthers the study of issues that may apply when responding to emergency situations and evaluating possible alternatives and options using the Virtual Firearms Training Software. Training in stressful situations will challenge the student to perform and exhibit critical, judgmental, creative thinking, and communication skills under simulated real-life conditions. The use of certain law enforcement weapons, both lethal and less lethal, and the use of state-of-the-art Virtual Firearms Training Technology in safe and controlled environments is briefly reviewed. Students will be required to respond to scenarios involving continuum of force decisions. The focus of this course is not on firearms skills, handling of firearms, or proficiency with firearms. This course is not intended to, nor does it, qualify the student to meet any certification, licensing, or any other requirement for weapon ownership, possession, use or safety. Prerequisite: Completion of Basic Virtual Firearms Training (CRMJ 1500) or concurrent enrollment. (1 lect.)

CRMJ 2100 (POLS 2100) – Politics & the Judicial Process.**3 credits (T)**

This course will examine the function of courts, characteristics of the judicial process, approaches to the study of judicial behavior, the role of the courts as policy makers and the relationship of the courts to other branches of government. (3 lect.)

CRMJ 2120 (POLS 2120) – Intro to Criminal Justice. 3 credits (E)

In this course, the total criminal justice process from law enforcement through the administration of justice, prisons, probation, and history and philosophy of the system are examined. (3 lect.)

CRMJ 2130 (POLS 2130) – Criminal Investigation II/I. 3 credits

This course will introduce the student to the fundamental features of the art and science of criminal investigations. The course will review, discuss and analyze theories and methods of criminal investigation focusing on the relationships of detectives with other law enforcement divisions, modus operandi, sources of information, surveillance, personal identification, interviewing and interrogation, preliminary and follow up investigation, the collection and preservation of evidence, and case preparation. (3 lect.)

COURSE DESCRIPTIONS

CRMJ 2135 (POLS 2135) – Criminal Investigation II/II. 3 credits

This course examines the value and significance of various types of physical evidence. Students will be shown how to identify, collect, and preserve physical evidence at the scene of the crime, and the procedures, techniques, and laboratory methods used in their handling. Examination and presentation of physical evidence will be identified. Evidence typically found at various crime scenes and required law enforcement actions will be studied. (3 lect.)

CRMJ 2140 (POLS 2140) – Criminal Legal Procedures. 3 credits

This course is a survey of constitutional law and its relationship to the criminal justice system. Students will analyze the laws of arrest, search and seizure, confessions and signed statements; they will also study and evaluate evidence and proof. Particular attention is given to application of Wyoming requirements. (3 lect.)

CRMJ 2210 (CRMJ 2145/POLS 2145) – Criminal Law. 3 credits

This course covers general criminal law, which includes, but is not limited to, the following topics: the nature, origins, structure and purposes of criminal law; the constitutional limits on criminal law; the general principles of criminal liability; the doctrines of complicity and inchoate crimes; and the defenses to crime including excuse, justification and alibi. Special emphasis is placed on Wyoming provisions. (3 lect.)

CRMJ 2230 (POLS 2230) – Law of Evidence. 3 credits (T)

The purpose of this course is to introduce the student to the rules of evidence, particularly as they apply to criminal trials. The Federal Rules of Evidence, burdens of presentation and proof, the exclusionary rule, the presumption of innocence, witness examination procedures, and related legal issues are discussed. (3 lect.)

CRMJ 2360 (SOC 2360) – Intro to Corrections. 3 credits

This course examines the philosophical and historical foundations of punishment and corrections. It further explores developments in American penology as well as present and future correctional issues and trends. A critical examination is done of the role of the inmate, correctional officer, detention facilities, probation, parole, pardons, and society's involvement and responses. (3 lect.)

CRMJ 2370 (SOC 2370) – Probation & Parole. 3 credits

This course explores and analyzes the philosophical foundations and practical applications of community based corrections and the social, legal and political forces that shape these philosophies and practices. The focus is on probation, parole and other community based strategies for dealing with the criminal offender and the ramifications of community based correctional programs, including economic, legal and societal. (3 lect.)

CRMJ 2400 (SOC 2400) – Criminology. 3 credits (E)

This course provides a survey of the nature and extent of crime and delinquency, together with the major approaches to causation, apprehension, control and treatment. (3 lect.)

CRMJ 2410 (SOC 2410) – Juvenile Delinquency. 3 credits (T)

This course presents the history, philosophy and function of the juvenile court system, juvenile court procedures, and laws, as well as theories of delinquency causation and intervention strategies for juveniles. It includes an evaluation and analysis of law, institutions, policies and practices of the juvenile justice system in the United States since its inception. In addition, a blend of theoretical questions, practical applications and possible solutions will be provided and discussed. (3 lect.)

CRMJ 2500–Advanced I Virtual Firearms Training.

1 credit (Max 3)

This course is a continuation of Intermediate Virtual Firearms Training (CRMJ 1505), and furthers the study of issues that may apply when responding to emergency situations and evaluating possible alternatives and options using the Virtual Firearms Training Software. Training in stressful situations will challenge the student to perform and exhibit critical, judgmental, creative thinking, and communication skills under simulated real-life conditions. The student is required to perform via simulation in "as real as possible" situations and to evaluate and discuss decision-making techniques focusing on continuum of force decisions. Students enrolling in this course are required to have knowledge in the use of virtual firearm weapons and apply this knowledge to use of force and continuum of force situations. The focus of this course is not on firearms skills, handling of firearms, or proficiency with firearms. This course is not intended to, nor does it, qualify the student to meet any certification, licensing, or any other requirement for weapon ownership, possession, use or safety. Course may be repeated for a maximum of three credits. Prerequisite: Completion of Intermediate Virtual Firearms Training (CRMJ 1505) or concurrent enrollment. (1 lect.)

CRMJ 2505 –Advanced II Virtual Firearms Training.

1 credit (Max 3)

Advanced II Virtual Firearms Training is a capstone course, which incorporates all of the components of the Basic, Intermediate, and Advanced I Virtual Firearms Training courses. The student is required to participate in specific advanced training scenarios that require critical and creative thinking, expert communication delivery, and split-second judgmental decision making in a safe and controlled environment. This course will emphasize the basic laws, policies, and procedures a person is responsible for taking into account when use of force may be required. The student is expected to operate the training firearms and to recognize the importance of knowledge of laws and issues surrounding continuum of force decisions. The focus of this course is not on firearms skills, handling of firearms, or proficiency with firearms. This course is not intended to, nor does it, qualify the student to meet any certification, licensing, or any other requirement for weapon ownership, possession, use or safety. Course may be repeated for a maximum of three credits. Prerequisite: Completion of Advanced I Virtual Firearms Training (CRMJ 2500). (1 lect.)

CRMJ 2545 – Rural Justice Training in: .5-3 credits (Max 12)

This course offers training to law enforcement officers in Wyoming and other States. This course cannot be used as a general education requirement but can be used as a major requirement or program elective in the Criminal Justice and Homeland Security programs (A.A., A.S. AND A.A.S.). This course can be used as a general elective in other programs as appropriate (.5-3 lect.)

CULINARY ARTS

CULA 1145 – Intro to Culinary Nutrition. 3 credits

This course provides students with the fundamentals of nutrition relating to the culinary field. Topics to be covered are: healthy menu planning, develop healthy recipes, food safety, quality food production, merchandising, marketing and basic nutrition concepts. This course only satisfies the requirement for Culinary Arts and Hotel/Restaurant Management degree programs. (2 lect.)

CULA 1555 – Food Preparation I: Stocks, Sauces, & Soups.**3 credits**

This course is an introduction to the preparation of stocks, soups, classical sauces, contemporary sauces, accompaniments, and the pairing of sauces with variety of foods. Cooking techniques of simmering and boiling, the proper use of knives, tools, small-wares and equipment will also be emphasized. (6 lab)

CULA 1600 – Food Preparation II: Garde Manger.**3 credits**

Garde Manger (cold foods) involves the study of specialty foods and garnishes. Emphasis will be placed on design, techniques, and display of fine foods. Preparation of specialized deli (charcuterie) products including sausages; pates and terrines; carving of vegetables, fruits and ice; the seven families of hors d'oeuvres; composed salad; green salads and salad ingredients; and international cold sauces and dressings is addressed. Methods and techniques of preparation of cold foods, menu developments, and planning banquets and catering are also addressed. (6 lab)

CULA 2700 – Food Preparation III: Baking.**4 credits**

This course is designed to introduce the student to the fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts, doughnuts, flours, fillings and ingredients. Other topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products. Emphasis on advanced techniques is included in the study of classical desserts, French and international pastries, hot and cold desserts, ice creams and ices, chocolate work and decorations. (1 lect., 6 lab)

CULA 2800 – Food Preparation IV: Meat Preparation & Cooking.**4 credits**

Basic meat preparation and cooking methods applicable to beef, lamb, veal, pork, fish, and poultry are the focus of this course. Cooking procedures such as roasting, sautéing, braising, grilling, baking, broiling, pan broiling, and pan-frying are emphasized. Identification and characteristics of cuts of meat, U.S.D.A. quality grades, and Federal Meat Inspection Regulations are addressed. Overall kitchen functions for preparing and expediting food during service hours in a restaurant are emphasized. (1 lect., 6 lab)

CULA 2900 – Food Preparation V: Fish & Shellfish Preparation & Cooking.**3 credits (Max 3)**

This course will study advanced concepts in the preparation of fish and seafood through lab demonstrations and hands-on experience. The course will identify types, species, and market forms of fish and seafood; prepare a variety of seafood menu items; and demonstrate proper processing and preparations of raw fish and seafood. (6 lab)

CUSTOMER SERVICE**CUST 1550 – Customer Service Specialist.****10 credits**

This course prepares students for the service industry. Emphasis is placed on the principles of exceptional customer service, work ethic, personal effectiveness, managing difficult customers, developing computer and writing skills used in the service industry. Students earning credit in CUST 1551, CUST 1552, CUST 1553, and CUST 1554 may not receive duplicate credit for this course. Students earning credit in CUST 1550 may not earn credit in QSCS 1550. (10 lect.)

CUST 1551 – Service Industry Business Environment.**2 credits**

This course will focus on introducing the student to service industries, with an emphasis on the principles of exceptional customer service, quality, work ethic, and personal effectiveness. Students earning credit CUST 1551 may not earn credit in QSCS 1551. (2 lect.)

CUST 1552 – Customer Contact Skills.**4 credits**

This course will focus on specific communication skills associated with providing customer service in a business environment. Students will learn both face-to-face and telephone contact skills, including managing difficult customers, information sharing, and valuing customers with various ethnic and cultural backgrounds. Students earning credit in CUST 1552 may not earn credit in QSCS 1552. (4 lect.)

CUST 1553 – Customer Service Computer Skills.**2 credits**

This course provides the student with an opportunity to perform basic computer skills related to work processing, spreadsheets, databases, e-mail, and e-commerce. Students earning credit in CUST 1553 may not earn credit in QSCS 1553. (2 lect.)

CUST 1554 – Customer Service Business Skills.**2 credits**

The focus of this course is to provide students with introductory math skills, correspondence and writing skill, problem-solving, and man-aging changes in the workplace specific to the service industry. Students earning credit in CUST 1554 may not earn credit in QSCS 1554. (2 lect.)

QSCS 1550 – Certified Customer Service Specialist.**10 credits**

This course prepares students for the service industry. Emphasis will be placed on the principles of exceptional customer service, work ethic, personal effectiveness, managing difficult customers, developing computer skills and writing skills used in the service industry. Students earning credit in QSCS 1551, QSCS 1552, QSCS 1553, and QSCS 1554 may not receive duplicate credit for this course. Students earning credit QSCS 1550 may not earn credit in CUST 1550. (10 lect.)

QSCS 1551 – Service Industry Business Environment.**2 credits**

This course focuses on introducing the student to service industries, with emphasis on the principles of exceptional customer service, quality, work ethic, and personal effectiveness. Students earning credit in QSCS 1551 may not earn credit in CUST 1551. (2 lect.)

QSCS 1552 – Customer Contact Skills.**4 credits**

This course focuses on specific communication skills and skills associated with providing customer service in a business environment. Students will learn both face-to-face and telephone contact skills, including managing difficult customers, information sharing, and valuing customers with various ethnic and cultural backgrounds. Students earning credit in QSCS 1552 may not earn credit in CUST 1552. (4 lect.)

QSCS 1553 – Customer Service Computer Skills.**2 credits**

This course provides the student with an opportunity to perform basic computer skills related to word processing, spreadsheets, databases, e-mail, and e-commerce. Students earning credit in QSCS 1553 may not earn credit in CUST 1553. (2 lect.)

QSCS 1554 – Customer Service Business Skills.**2 credits**

The focus of this course is to provide students with introductory math skills, correspondence and writing skills, problem-solving, and managing changes in the workplace specific to the service industry. Students earning credit in QSCS 1554 may not earn credit in CUST 1554. (2 lect.)

COURSE DESCRIPTIONS

DENTAL ASSISTANT

DNTA 1500 – Orientation to Dental Assisting. 1 credit

This course introduces students to the basic vocabulary used in a dental office setting including identifying the tools used by dental assistants in an everyday environment. Certification and testing procedures for becoming a Certified Dental Assistant are covered. (1 lect.)

DNTA 1810 – Dental Assisting Fundamentals. 5 credits

This course is designed to provide an introduction to general chair side manner and chair side dental procedures. The student will learn to read and prepare dental charts. (4 lect., 2 lab)

DNTA 1910 – Dental Radiography. 3 credits

This course instructs students how to administer and prepare dental x-rays. Students receive instruction in radiographic techniques, radiographic equipment, patient management, and chart reading and preparation. (2 lect., 2 lab)

DNTA 2520 – Dental Office Procedures. 1 credit

This course instructs students in the fundamental aspects of operating a modern day dental office. Students will have the opportunity to experience “real-life” scenarios that occur in a dental office during a normal day’s work. (1 lect.)

DNTA 2820 – Dental Therapeutics & Emergency Management. 3 credits

This course instructs students in proper protocol for managing patient comfort during a dental visit and preventing and responding to an emergency situation within the dental office setting. Topics include patient health and oral health management; pre/post treatment instruction; oral care techniques; and prevention and management of emergencies. (3 lect.)

ECONOMICS

ECON 1010 – Macroeconomics. 3 credits (E/CS)

This course is designed to aid in the development of an economically aware citizenry. Discussion and analysis are focused on aggregate economic behavior or the “big picture.” Students taking the course can expect to learn how the measures of economic performance, such as GDP, inflation and unemployment, are constructed and how to apply them to evaluate the macroeconomic conditions of an economy. Students will also learn the basic analytical tools of macroeconomics, primarily the aggregate demand and aggregate supply model and its application in the analysis and determination of national income, as well as evaluating the effectiveness of fiscal policy and monetary policy in promoting economic growth and stability. Prerequisite: Completion of MATH 0920 or test into MATH 0930 or higher. (3 lect.) **SOC**

ECON 1020 – Microeconomics. 3 credits (E/CS)

Active citizens should have an understanding of economic principles. Microeconomics is the branch of economics that examines human behavior and choices as they relate to relatively small economic units - the individual, a firm, an industry, or a single market. The focus in this foundation course will be on how individuals and societies address the fundamental economic problem of scarcity. Students will use the process of economic reasoning to explore decision-making of economic units; supply, demand and resource allocation; analysis of various market and industry structures; shortages, surpluses, social costs and benefits; international trade; and comparative systems. Prerequisite: Completion of MATH 0920 or test into MATH 0930 or higher. (3 lect.) **SOC**

EDUCATION

Education: Early Childhood

EDEC 1020 (EDCI 1020) – Intro to Early Childhood Education. 3 credits (E)

A course for students preparing to work with young children birth through age eight. Students learn about the early childhood professional community; examine guidelines for the programs in an early childhood setting; focus on how these children think and learn; consider major issues facing children today. (3 lect.)

EDEC 1030 – Infant & Toddler Care. 2 credits (T)

This course provides information on growth and development of children under the age of three along with curriculum implications, de-fines the interactive role of the caregiver, and explores other components of infant toddler care including implementation of quality pro-gramming and adult interactions. The course along with EDEC 1035, Infant and Toddler Care Lab, meets the criteria for the Wyoming Infant/Toddler Credential. Prerequisites: Completion of EDEC 1020 or Instructor permission. (2 Lect.)

EDEC 1035 – Infant & Toddler Care Lab. 1 credit (T)

This course requires a 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: Completion of EDEC 1030 or concurrent enrollment. (2 Lab)

EDEC 1100 – Observation & Guidance of Young Children. 3 credits (E)

This course offers the opportunity to learn and practice effective and practical methods of meeting the needs of young children as individuals and as members of a group, in an early childhood setting. The lab component provides related, supervised on-site experience in an approved early childhood center. Emphasis is on creating and maintaining positive and constructive learning environments, completing assessments of children, recording behaviors, planning activities, creating materials and learning environments, scheduling, behavior management, and maintaining parent-teacher communication. A current Wyoming substitute teaching permit or completed background checks by the Department of Family Services (\$) and Sheriff’s Department are needed before placement in a classroom. See instructor for appropriate forms and required fee. Prerequisites: Completion of EDEC 1020. (2 lect., 2 lab)

EDEC 1200 (EDCI 1200) – Administration of Early Childhood Education. 3 credits (T)

This course examines the early childhood educator’s role and responsibilities for starting and operating a pre-school or child-care facility. Topics include setting-up programs, managing and supervising staff, business practices, community relations, and making decisions about equipment, materials, meals, and nutrition. Prerequisite: Completion of EDEC 1020. (3 lect.)

EDEC 1205 – CDA Portfolio & Observation. 2 credits (T)

After the completion of 120 hours of formal training, candidates for the Child Development Associate Credential (CDA) are required to have a minimum of three hours of formal classroom observation and create a Professional Resource File. Class Assignments, discussions, and activities will be used to create the resource file. Observations will be coordinated by the instructor in the appropriate setting for the credential being sought. Prerequisites: Completion of EDEC 1020, EDEC 1200, and FCSC 2131, or documentation of equivalent 120 hours of formal training with current employment in a childcare/preschool setting. (2 lect.)

EDEC 1300 (EDCI 1300) – Young Child Curriculum Planning & Development. 2 credits (T)

This course examines appropriate curriculum and instructional practices for children from birth through age eight. Other areas of examination will be positive and supportive relationships with parents and communities, integrated goals, and a physically and psycho-logically safe and healthy learning environment. Prerequisite: Completion of EDEC 1020. (2 lect.)

EDEC 1305 – Curriculum Planning/Development for Young Children Lab. 1 credit (T)

This field experience course provides opportunities for supervised teaching experiences in an approved early childhood education center. Students will plan, implement, and evaluate curriculum activities. Prerequisites: Completion of EDEC 1020 and EDEC 1300 (or concurrent enrollment in EDEC 1300). (2 lab)

EDEC 2200 – Early Childhood Practicum. 3 credits (T)

The student will gain intensive, supervised teaching experience in an early childhood education setting. The focus will be on developing skills for the care and education of young children and developing a portfolio, and increasing awareness of administrative skills and current issues in the field. During the semester, students are required to work/volunteer a total of 60 hours in a directed field experience at an instructor-approved site, and attend 15 hours of seminar (1 hour per week) on campus. A current Wyoming substitute teaching permit or completed background checks by the Department of Family Services (\$) and Sheriff's Department are needed before placement in a classroom. Prerequisites: Completion of EDEC 1100, EDEC 1300, EDEC 1305 and EDEC 2122 or instructor's permission. (1 lect., 4 lab) **CLPE**

Education: Elementary

EDEL 1410 (EDCI 1410) – Elementary School Mathematics I. 1 credit (E)

This course is designed to allow education students the opportunity to discuss and implement instructional strategies and activities for teaching math. It will provide a linkage between what prospective teachers study and how they will teach materials related to the course material they study. This course will be offered in conjunction with MATH 1100: Mathematics for Elementary School Teachers I. (1 lect.)

EDEL 1430 (EDCI 1430) – Life Science in Elementary School. 1 credit (E)

This course covers the selection and application of basic life science concepts and curricula appropriate for elementary school. Students will prepare appropriate experiments which in turn will be presented to student peers and in elementary classrooms. This course must be taken concurrently with life science class approved for elementary education majors. (1 lect.)

EDEL 1440 (EDCI 1440) – Physical Science in Elementary School. 1 credit (E)

This course covers the selection and application of basic physical science concepts and curricula appropriate for elementary school. Students will prepare appropriate experiments which in turn will be presented to student peers and in elementary classrooms. This course must be taken concurrently with physical science class approved for elementary education majors. (1 lect.)

EDEL 1450 (EDCI 1450) – Earth Science in the Elementary School. 1 credit (E)

This course covers the selection and application of basic earth science concepts and curricula appropriate for elementary school. Students will prepare appropriate experiments which in turn will be presented to student peers and in elementary classrooms. This course must be taken concurrently with earth science class approved for elementary education majors. (1 lect.)

EDEL 2410 (EDCI 1420) – Elementary School Mathematics II. 1 credit (E)

This course is designed to allow education students the opportunity to discuss and implement instructional strategies and activities for teaching math. It will provide a linkage between what prospective teachers study and how they will teach materials related to the course material they study. This course will be offered in conjunction with MATH 1105: Mathematics for Elementary School Teachers II. (1 lect.)

EDUC 2100 (EDEL 1010) – Public School Practicum. 2 credits (E)

Students will participate in an extensive practicum experience for prospective educators in an accredited school under the supervision of a certified teacher. Letter grade option only. A current Wyoming substitute teaching permit or completed background checks by the Department of Family Services (\$) and the Sheriff's Department are needed before placement in a classroom. See instructor for appropriate forms and required fee. Prerequisite: Completion of EDFD 2020 or EDFD 2100. (1 lect., 30 hours of practicum required during the semester.) **CLPE**

Education: Exceptional Children

EDEX 2484 – Foundations of Special Education. 3 credits (E)

This course is designed to meet the needs of education majors. It provides a broad overview of effective intervention models of instructional 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. This course would also be helpful for individuals in other fields who need an introduction to the field of exceptional children. Prerequisite: Completion of EDFD 2020 and PSYC 1000. (3 lect.)

Education: Foundations

EDFD 2020 – Foundations of Education. 3 credits (E)

This course offers a general philosophical and sociological survey of educational thought and practice in the United States, viewed as a part of social progress. Students will critically examine the historical, sociological, and philosophical foundations of the present American educational system. They will discuss current significant educational issues and practices. This course is intended for undergraduates who have decided to enter the teaching profession. Prerequisite: Completion of ENGL 1010. (3 lect.)

COURSE DESCRIPTIONS

EDFD 2100 (EDFD 2040) – Educational Psychology. 3 credits (E)

Students will demonstrate knowledge and understanding of psychological concepts, principles, and research relevant to teaching and learning with emphasis on the school setting. Prerequisite: Completion of EDFD 2450 or Instructor Permission. (3 lect.)

EDFD 2450 – Human Life Span Development. 3 credits (E/CS)

This course offers a multi-disciplinary and holistic overview of human development from conception to old age. To understand how and why people function as they do, we will examine the physical, cognitive, psychological, sociological, and emotional aspects of being human and inquire into how goals, interests, and roles in life change over time. (3 lect.) **SOC**

Education: Secondary

EDUC 2100 (EDSE 1010) – Public School Practicum. 2 credits (E)

Students will participate in an extensive practicum experience for prospective educators in an accredited school under the supervision of a certified teacher. Letter grade option only. A current Wyoming substitute teaching permit or completed background checks by the Department of Family Services (\$) and the Sheriff's Department are needed before placement in a classroom. See instructor for appropriate forms and required fee. Prerequisite: Completion of EDFD 2020 or EDFD 2100. (1 lect., 30 hours of practicum required during the semester.)

Educational Studies

EDUC 1050 – Leading Adventure Programs. 3 credits (T)

This foundational course will focus on leadership development for adventure programs aimed at providing recreation, education, or therapy for their participants. Students will explore the history and philosophy of adventure programming, outdoor leadership skills, environmental stewardship, risk management and effective facilitation of adventure programs. (2 lect., 2 lab)

EDUC 1055 – Introduction to Outdoor Education. 3 credits (T)

This course will show students how to use physical, cognitive, and affective methods to teach lessons in varied settings to different audiences linking educational theories to teaching methods and applications to foster optimal learning. Students will apply educational theories to outdoor teaching methods and learn to select and deliver the instructional strategy that works best for their audience, whether working for a secondary school, college, camp, tour operator, environmental learning center, guide service, or government agency. (2 lect., 2 lab)

EDUC 1100 (EDST 1100) – American Indian Education. 3 credits (T)

This course is designed to address the pertinent issues of American Indian education in the United States. It includes a comprehensive historical review of traditional American Indian ways of knowing and learning, and the changes in this process brought on by 130 years of U.S. government policy and regulation. Theories of education, including content (curricula) and processes (ways of learning) will be examined in this context, as well as techniques to be successful teaching in Indian/Non-Indian classrooms. Students earning credit in EDUC 1100 may not earn credit in AIST 1100. (3 lect.)

EDUC 2001 – Online Course Design. 2 credits (T)

This course introduces the student to best practices in online course design. It focuses on up-to-date research regarding online instructor andragogy. Students learn how to utilize course and unit objectives in relation to choosing appropriate instructional materials and designing assessment strategies. The student studies how to apply the best elements of course design. Practical experience in the use of resources and tools, such as a Learning Management System, is included. Experience with curriculum development as evidenced by college teaching experience is recommended. Prerequisite: Instructor's Permission. (2 lect.)

EDUC 2015 (EDST 2015) – Outdoor Educator. 1-5 credits (Max 12) (T)

This course is offered in conjunction with the National Outdoor Leadership School (NOLS) and prepares students to be safe, competent, responsible wilderness leaders and travelers, familiar with the NOLS outdoor education techniques and philosophies. Students will learn how to supervise novices during a basic wilderness experience. Students will apply environmental ethics during the wilderness experience. This course is offered in more than one environmental setting and may be repeated for a maximum of 12 credits if taken in a new environment each time. (1-5 lect.)

EDUC 2045 (EDST 2045) – Outdoor Leadership Instructor. 1-5 credits (T)

This course prepares instructors to teach and practice responsible habits that promote the health and safety of self and others. Students are exposed to the theory and practice of outdoor leadership, teamwork and expedition behavior which involves commitment to the group, a positive attitude and cooperation to achieve goals. Students will live, travel and guide others in the outdoors within a framework of safety and care for the environment. An awareness of how to apply minimum impact ideas to their lives beyond the course will be developed. Students are expected to be prepared as wilderness educators as well as wilderness leaders. (1-5 lect.)

EDUC 2050 (EDST 2050) – Outdoor Education & Leadership. 1-5 credits

The outdoor education component of the National Outdoor Leadership School (NOLS) semester course includes theory and specific techniques for education in the outdoors. The leadership component of this course uses a progression that includes theory, modeling by staff, extensive coached practice, and independent student application in real situations. Students will be given the opportunity to become certified as "Leave No Trace Trainers." This course is part of the NOLS semester course and must be taken concurrently with BIOL 2045 and G&R 2050. On certain semesters it is also taken concurrently with HLED 2010. NOLS semesters are taught experientially, so climate, season, terrain, participants, specific course selection, and other factors generally support some outcomes more than other. (1-5 lect.)

EDUC 2470 – Outdoor Education Practicum. 4 credits (T)

This course will provide a practicum for experiential learning in one of the following areas selected by the student: trail design and construction, public land management, environmental conservation education, guiding, outfitting, wilderness skills development, parks and recreation, or outdoor programs for public schools. As a part-time intern, the student will work closely with a practicum supervisor in a faculty-approved host organization. Flexible work schedule may be developed around student's class schedule. Prerequisites: Completion of Introduction to Outdoor Education (EDUC 1055), instructor's approval, and approval of a host organization. (8 lab) **CLPE**

ELECTRICAL APPRENTICESHIP**ELEC 1510 – Electrical 1. 2 credits**

This course is the first in a series of eight courses at the electrical apprentice level. This course meets the related apprenticeship training requirements of the State of Wyoming, Department of Fire Prevention & Electrical Safety. It is not required that students be participating in an apprenticeship program to enroll in this course, but it is recommended. The curriculum for this course corresponds to the level 1 requirements of the National Center for Construction Education & Research (NCCER). This course introduces students to electrical safety, basic electrical theories, electrical testing equipment, hand bending conduit, and installing fasteners and anchors. Students can expect to complete a minimum of three hours coursework outside of class each week. (Related apprenticeship training hours: 32 hours lecture - 48 hours outside coursework) (2 lect.)

ELEC 1520 – Electrical 2. 2 credits

This course is the second in a series of eight courses at the electrical apprentice level. This course meets the related apprenticeship training requirements of the State of Wyoming, Department of Fire Prevention and Electrical Safety. It is not required that students be participating in an apprenticeship program to enroll in this course, but it is recommended. The curriculum for this course corresponds to the level 1 requirements of the National Center for Construction Education & Research (NCCER). This course introduces students to the National Electrical Code, and instructs them in the topics of raceways, boxes, fittings, conductors, electrical blueprints, and commercial, industrial, and residential wiring. Students can expect to complete a minimum of three hours coursework outside of class each week. (Related apprenticeship training hours: 32 hours lecture - 48 hours outside coursework) (2 lect.)

ELEC 1530 – Electrical 3. 4 credits

This course is the third in a series of eight courses at the electrical apprentice level. This course meets the related apprenticeship training requirements of the State of Wyoming, Department of Fire Prevention & Electrical Safety. It is not required that students be participating in an apprenticeship program to enroll in this course, but it is recommended. The curriculum for this course corresponds to the level 1 requirements of the National Center for Construction Education & Research (NCCER). This course continues instruction in the National Electrical Code, and instructs students in the topics of alternating current, motors, ground, conduit bending, boxes and fittings, and conductor installations. Students can expect to complete a minimum of three hours coursework outside of class each week. (Related apprenticeship training hours: 64 hours lecture - 48 hours outside coursework) (4 lect.)

ELEC 1540 – Electrical 4. 3 credits

This course is the fourth in a series of eight courses at the electrical apprentice level. This course meets the related apprenticeship training requirements of the State of Wyoming, Department of Fire Prevention and Electrical Safety. It is not required that students be participating in an apprenticeship program to enroll in this course, but it is recommended. The curriculum for this course corresponds to the level 1 requirements of the National Center for Construction Education & Research (NCCER). This course continues instruction in the National Electrical Code, and instructs students in the topics of cable trays, conductor terminations and splices, installation of electrical services, circuit breakers and fuses, contactors and relays, and electrical lighting. Students can expect to complete a minimum of three hours coursework outside of class each week. (Related apprenticeship training hours: 48 hours lecture-48 hours outside course work) (3 lect.)

ELEC 1550 – Electrical 5. 4 credits

This course is the fifth in a series of eight courses at the electrical apprentice level. This course meets the related apprenticeship training requirements of the State of Wyoming, Department of Fire Prevention and Electrical Safety. It is not required that students be participating in an apprenticeship program to enroll in this course, but it is recommended. The curriculum for this course corresponds to the level 1 requirements of the National Center for Construction Education & Research (NCCER). This course continues instruction in the National Electrical Code, and instructs students in the topics of load calculators (branch and feeder circuits), conductor selection and calculations, overcurrent protection, raceway, box and fitting fill requirements, wiring devices, and equipment distribution. Students can expect to complete a minimum of three hours coursework outside of class each week. (Related apprenticeship training hours: 64 hours lecture - 48 hours outside coursework) (4 lect.)

ELEC 1560 – Electrical 6. 4 credits

This course is the sixth in a series of eight courses at the electrical apprentice level. This course meets the related apprenticeship training requirements of the State of Wyoming, Department of Fire Prevention & Electrical Safety. It is not required that students be participating in an apprenticeship program to enroll in this course, but it is recommended. The curriculum for this course corresponds to the level 1 requirements of the National Center for Construction Education & Research (NCCER). This course continues instruction in the National Electrical Code, and instructs students in the topics of distribution system transformers, lamps, ballasts and components, motor calculations, motor maintenance, motor controls, and hazardous locations. Students can expect to complete a minimum of three hours coursework outside of class each week. (Related apprenticeship training hours: 64 hours lecture - 48 hours outside coursework) (4 lect.)

ELEC 1570 – Electrical 7. 3 credits

This course is the seventh in a series of eight courses at the electrical apprentice level. This course meets the related apprenticeship training requirements of the State of Wyoming, Department of Fire Prevention and Electrical Safety. It is not required that students be participating in an apprenticeship program to enroll in this course, but it is recommended. The curriculum for this course corresponds to the level 4 requirements of the National Center for Construction Education and Research (NCCER). This course will instruct students in the topics of load calculations, lighting, emergency and alarm systems, basic electronic theory, and specialty transformers. Students can expect to complete a minimum of three hours coursework outside of class each week. (Related apprenticeship training hours: 48 hours lecture - 48 hours outside coursework) (3 lect.)

ELEC 1580 – Electrical 8. 4 credits

This course is the final course in a series of eight courses at the electrical apprentice level. This course meets the related apprenticeship training requirements of the State of Wyoming, Department of Fire Prevention and Electrical Safety. It is not required that students be participating in an apprenticeship program to enroll in this course, but it is recommended. The curriculum for this course corresponds to the level 4 requirements of the National Center for Construction Education and Research (NCCER). This course continues instruction in the National Electrical Code, and instructs students in the topics of advanced motor controls, HVAC controls, heat tracing and freeze protection, motor maintenance, and high voltage terminations and splices. Students can expect to complete a minimum of three hours coursework outside of class each week. (Related apprenticeship training hours: 64 hours lecture - 48 hours outside coursework) (4 lect.)

COURSE DESCRIPTIONS

ELEC 1600 – Electrical Principles. 3 credits

This course provides instruction in basic electrical concepts, such as alternating and direct current theory, magnetism, application of Ohm's law and the power formula to series, parallel and combination circuits. Additional course topics include wire sizing, conductor and motor characteristics, circuit requirements, numbering systems, and codes. Students will wire, operate and use a digital multi-meter to troubleshoot and repair various electrical circuits commonly found in residential, commercial and industrial facilities. Prerequisite: Completion of MATH 1500 or MATH 0930. (2 lect., 2 lab)

ELEC 1610 – Electrical Motor Controls. 5 credits

This course provides instruction in alternating current (AC) and direct current (DC). Students identify motor control components, and explain their function and operation. Students will be expected to draw electrical schematics to meet given specifications and then use their schematics to wire the control and power circuits. Students will verify proper operation of circuits and use multi-meters and electrical schematics to troubleshoot and repair various circuits. (4 lect., 2 lab)

ENGINEERING SCIENCE

ES 1000 – Intro to Engineering. 1 credit (E/I/L)

A survey of the engineering profession including engineering curriculum, types of engineers, what services they perform, and engineering ethics and professionalism. The course also covers basic analytical methods used by engineers and engineering students. Prerequisite: Completion of MATH 0930 or test into MATH 1400 or higher. (1 lect.)

ES 1060 – Intro to Engineering Problem Solving. 3 credits (E)

This course is an overview of the methodology and tools used in the engineering profession for analyzing problems. Example problems are solved using spreadsheet tools and structured programming languages. Prerequisite: Successful completion of MATH 2200 or concurrent enrollment. (2 lect., 3 lab)

ES 2110 – Statics. 3 credits (E)

This course provides students with a basic background in engineering mechanics by addressing static equilibrium of particles and rigid bodies. Students will study "Vector Mechanics" techniques for analyzing particles and rigid bodies including trusses and simple machines with discrete and distributed loads. Prerequisite: Completion of PHYS 1110 or PHYS 1310 and MATH 2205 or concurrent enrollment. (3 lect.)

ENGLISH

ENGL 0510 – Reading Improvement I. 4 credits

Students in this basic course will do extensive reading and reading improvement activities at an appropriate skill level as determined by evaluations and advisement. Topics covered include word structure, vocabulary enrichment, reading comprehension, and inferential reading skills. A one-hour per week tutor-assisted study session is required in addition to regular class time. Students who satisfactorily complete the course will be required to take ENGL 0520, unless they score above the current ENGL 0520 requirement on the retake of the COMPASS placement test. Prerequisite: Test into ENGL 0510. (4 lect.)

ENGL 0520 – Reading Improvement II. 3 credits

Students in this intermediate reading course will do extensive reading and reading improvement activities designed to prepare students for college level reading requirements. Topics covered include comprehension strategies, metacognitive skills, vocabulary enrichment, and critical reading skills. Prerequisite: Completion of ENGL 0510 or appropriate placement score. (3 lect.)

ENGL 0610 – Fundamentals of Composition I. 3 credits

English 0610 is designed as a review of the fundamentals of English sentences with intensive practice in writing clear, coherent sentences and paragraphs. Conventions of grammar, usage, punctuation, and spelling will be reviewed. Prerequisite: Test into ENGL 0610. (3 lect.)

ENGL 0620 – Fundamentals of Composition II. 3 credits

English 0620 is designed as a review of the fundamentals of expository writing with intensive practice in writing clear, coherent paragraphs and essays. Emphasis will be placed on focus, development and organization; conventions of punctuation and grammar will be reviewed as necessary. Prerequisite: Completion of ENGL 0610 or test into ENGL 0620. (3 lect.)

ENGL 1007 (ENGL 1008) – English Writing Workshop. 1 credit

This course is a writing workshop component to work on specific areas of concern tailored to student's unique writing issues and thus prepare them for their assignments for the non-workshop portions of the class. A central objective of the course is to prepare students to successfully complete various writing assignments frequently required of college students. The course emphasizes clear well-ordered expository and argumentative writing, with variety in sentence structure, carefully developed paragraphs, smooth transitions and appropriate use of the language. Prerequisite: Completion of ENGL 0610 or placement into ENGL 0620 or higher. (1 lect.)

ENGL 1010 – English Composition I. 3 credits (E/WA)

ENGL 1010 is designed to help students improve their ability to communicate in writing. A central objective of the course is to prepare students to successfully complete various writing assignments frequently required of college students. The course emphasizes clear well-ordered expository and argumentative writing, with variety in sentence structure, carefully developed paragraphs, smooth transitions and appropriate use of the language. Prerequisite: Completion of ENGL 0620 or test into ENGL 1010. (3 lect.) **WR1**

ENGL 1020 – English Composition II. 3 credits (T/WB)

The second semester of college-level composition is a reading and writing course based on literary texts. Analysis of short stories, poems, and plays will be the focus of writing and discussion. Prerequisite: Completion of ENGL 1010. (3 lect.) **WR2**

ENGL 2010 – Technical Writing. 3 credits (T/WB)

This course focuses on the theory and practice in the planning and writing of technical papers and reports, with emphasis on effective research methods and documentation. This course is designed primarily for students in technical and vocational programs. Each student will concentrate upon the vocabulary and technical aspects related to his or her specific field of study or interest by writing a culminating research project for a real audience. Prerequisite: Completion of ENGL 1010. (3 lect.) **WR2**

ENGL 2017 – Intro to Research. 3 credits (E/WB)

This course provides an introduction to the critical and creative aspects of the research process, to the variety of physical and online resources available, and to the steps in formulating and writing a research paper. Topics include: locating, using, and evaluating information; online catalogs and databases; search tools and strategy on the Web; information ethics; writing, editing, and finalizing a research paper; documentation style, and more. Prerequisite: Completion of ENGL 1010. (3 lect.)

ENGL 2047 – Wind River Writer’s Conference. 1 credits (T)

This course is associated with attendance of the Wind River Writer’s Conference. Students attending the conference will participate in an intensive study of various aspects of writing at the professional level for magazine publishers, book publishers, blog publishers, and other related fields. Students will interact with professionals in the field, and have their writing evaluated by editors, agents, and others working in the writing profession. (1 lect.)

ENGL 2050 – Creative Writing: Intro to Fiction.**3 credits (Max 6) (E)**

In this course students will be introduced to, and will analyze, the formal elements of fiction, such as theme, plot, character, setting, tone, and so on. Students will experience these basic elements as both part of their own process of writing fiction and their understanding of fiction as a finished product—their own, or that of others. The course involves participation in the “creative writing workshop,” where fellow artists constructively critique one another’s work. This course may be repeated for a maximum of six credits applicable toward graduation. Prerequisite: Completion of ENGL 1010. (3 lect.) **ARTS**

ENGL 2140 – World Literature I. 3 credits (T)

This course uses world literature to study the culture, history, and artistic endeavors of many peoples. Students will be presented with information about history, the writers, their works, and literary movements. Students will engage in a wide variety of activities, including practicing writing strategies, essays, and speeches and presentations. Prerequisite: Completion of ENGL 1010. (3 lect.) **HUM**

ENGL 2186 – Mythology & Folklore. 3 credits (T)

This course emphasizes the diversity of individuals and cultures through the study of a variety of myths and demonstrates how their respective myths and folktales affect the social, political, and religious backgrounds of their people. Additionally, students learn how myth is played out in a modern setting allowing them to see and help understand differences with their community peers. Prerequisite: Completion of ENGL 1010. (3 lect.) **HUM**

ENGL 2195 – Irish Literary Studies. 3 credits (T)

Irish Literary Studies provides a general introduction to Ireland, its literature, and its people. The course begins with the Celtic invasion of Ireland then continues to the current attempts to create peace in Northern Ireland. Along the way, this course will examine the lasting influence of the Celtic, Viking, Norman, and English invasions. The course focuses on some central questions about the relationship between politics and language, the varieties of “revolution” in Irish culture, the question of what it means to be an “Irish” writer, the relation between the Irish present and past, and what kinds of “narrative” modern Ireland needs and wishes to construct about itself. (3 lect.)

ENGL 2210 – English Literature I. 3 credits (T)

This course studies the works of major writers from the medieval period through the 18th Century in English literary history. Reading, writing, and discussion focus on the social, political, and intellectual context of individual works. This course is offered on an infrequent basis; check with the English Department for availability. Prerequisite: Completion of ENGL 1020 or instructor’s permission. (3 lect.) **HUM**

ENGL 2220 – English Literature II. 3 credits (T/CH)

English Literature from the Romantic Period to the present is studied in this survey of major writers. Works of literature are viewed as they influence and are influenced by the events and movements shaping the modern world. Reading, writing and discussion are the methods of instruction. This course is offered on an infrequent basis; check with the English Department for availability. Prerequisite: Completion of ENGL 1020 or instructor’s permission. (3 lect.)

ENGL 2230 – Intro to Shakespeare. 3 credits (T)

This course is a study of selected plays, poems, and sonnets of Shakespeare, with concentration upon tragedies, comedies, and historical plays. While studying the plays and other writings as works of literature, the student is encouraged to consider them in the context of the times and audiences for which they were written. Prerequisite: Completion of ENGL 1010. (3 lect.) **HUM**

ENGL 2286 – Legends & Lore. 3 credits (E)

This class focuses on legends and folktales from around the world, stories that are traditional and have some basis in historical events, e.g. King Arthur. Additionally, this class allows students to delve deeply into legends and lore by completing a semester-length project. While doing this, students will discover and comprehend the meanings and purposes of legends and folktales finding a social relevance for our time and culture. (3 lect.) **HUM**

ENGL 2310 – American Literature I. 3 credits (T/CH)

This survey of American writing begins with the literatures of native peoples, of exploration and settlement, and extends through the development of a distinct American literature, to the middle of the 19th Century. Written works are studied within the context of social, political, and economic changes. Through reading, writing, and discussion of texts and biography, students consider how ideas and movements influenced and were influenced by American literature. This course is offered on an infrequent basis; check with the English Department for availability. Prerequisite: Completion of ENGL 1020 or instructor’s permission. (3 lect.)

ENGL 2320 – American Literature II. 3 credits (T)

Beginning with the aftermath of the Civil War, this class examines the works of selected writers up to the present, in the context of social, political, and economic changes. Through reading, writing, and discussion of texts and biography, students consider how ideas and movements influenced and were influenced by American literature. This course is offered on an infrequent basis; check with English Department for availability. Prerequisite: Completion of ENGL 1020 or instructor’s permission. (3 lect.)

ENGL 2340 – American Indian Literature. 3 credits (E)

This course is a broad study of the literature of American Indian peoples. It includes both oral and written traditions, from the pre-Columbian era to the twentieth century. Legends, oratory, songs, poems, and stories are the matter of the course. Students earning credit in ENGL 2340 may not also earn credit in AIST 2340. Prerequisite: Completion of ENGL 1010. (3 lect.) **HUM**

COURSE DESCRIPTIONS

ENGL 2370 – Western American Literature. 3 credits (T)

This course is a study of some major works of western literature, with emphasis on the Northern Rocky Mountain region and Wyoming. It will include novels, poetry, criticism and history of Anglo, Native American and Hispanic literary heritages. This course is offered on an infrequent basis; check with the English Department for availability. Prerequisite: Completion of ENGL 1020 or instructor's permission. (3 lect.)

ENGL 2492 – Literary Topics. 1 credit (Max 3) (T)

This course provides the student with knowledge, understanding, and appreciation of literary works or a single work in a condensed, highly focused format. The work(s) will be analyzed using the conventional literary elements of plot, character, diction, setting, and theme. Students may also analyze ancillary issues which will inform their understanding of the work(s) such as historical, social, political, religious effects of the work(s) or influences on the work(s). Other methods of understanding may also be employed, according to the needs of the students and the demands of the text. The focus will be to give an intensive understanding of a small number of works within a single genre, rather than a broad overview of a large number of works. (1 lect.)

ENTREPRENEURSHIP

ENTR 1501 – Survey of Entrepreneurship. 1-3 credits (Max 6)

This An independent study wherein students work on individualized learning projects related to their interest and occupational objectives in entrepreneurship. A student may earn and apply no more than six credits toward graduation. The specific topic will be named after the colon. (2 lab hrs per wk for 1 cr; 4 lab hrs per wk for 2 cr; 6 lab hrs per wk for 3 cr)

ENTR 1505 – Entrepreneurship I: Entrepreneurial Mindset. 3 credits

This course introduces the student to the entrepreneurial mindset in its true economic and social context by studying the opportunities that entrepreneurship offers. The student will study the skills, attitudes and behaviors that successful entrepreneurs have historically possessed, as well as the issues, circumstances and obstacles that shaped their time. Additionally, the student will analyze modern-day successful entrepreneurs who overcame hardship and adversity by embracing an entrepreneurial mindset. The entrepreneurial mindset is analyzed and the elements are applied to the student's own mindset and entrepreneurial potential. (3 lect.)

ENTR 1525 – Entrepreneurship II: Opportunity Analysis. 3 credits

This course will focus on analyzing the entrepreneurial opportunities. The student will explore the feasibility of using his or her ideas to create a successful business and begin the process of writing a business plan. Prerequisite: Completion of ENTR 1505 or concurrent enrollment. (3 lect.)

ENTR 1590 – Entrepreneurship Leadership I. 1 credit

This course is the first of a two part series to introduce students to other entrepreneurs and their experiences. There will be a series of webinars/seminars with entrepreneurs. It will consist of professional networking opportunities and group discussions. (1 lect.)

ENTR 2510 – Entrepreneurship III: Financing Your Business. 3 credits

This course will focus on researching the options for financing the student's entrepreneurial activity. The final weeks of this course will give the student the opportunity to present his or her business to several financial leaders. Prerequisite: Completion of ENTR 1525 or concurrent enrollment. (3 lect.)

ENTR 2520 – Legal Issues for Entrepreneurs. 3 credits

This course provides a broad overview of the laws that affect the entrepreneur. The course emphasizes the legal challenges faced by entrepreneurs. From leaving a current job to taking a company public, the course will help the student avoid potentially costly missteps. This course focuses on the legal issues related to each stage of a start-up business. (3 lect.)

ENTR 2535 – Entrepreneurship IV: Strategic Planning, A Roadmap to Success. 3 credits

This course will assist the student in putting together a "Roadmap for Success" for his or her business. The student will finalize all materials that will be used to start his or her business. Local networking opportunities will be explored. Prerequisite: Completion of ENTR 2510 or concurrent enrollment (3 lect.)

ENTR 2590 – Entrepreneurship Leadership I. 1 credit

This course is the second of a two part series to introduce students to the business leaders and local, state, and national organizations whose purpose is to assist an entrepreneur in his or her quest towards business ownership. There will be a series of webinars/seminars. It will consist of professional networking opportunities and group discussions. Prerequisite: Completion of ENTR 1590.

ENVIRONMENT, HEALTH AND SAFETY

EHS 1500 – General Industry Safety. 3 credit

This course will introduce students to Occupational Safety and Health Administration (OSHA) policies, procedures and standards found in the Code of Federal Regulations (CFR). Emphasis will be placed on safety as a core value in the workplace and on the elimination and/or mitigation of hazardous conditions. The scope and application of OSHA construction standards contained in 29 CFR 1926 and general industry standards contained in 29 CFR 1910 will be addressed. Successful students will receive a 30-hour OSHA General Industry card. (3 lect.)

EHS 1505 – Safeland Basic Orientation. .5 credit (T)

This course provides an introduction to the hazards of the onshore oil and gas workplace. It is designed as an orientation for new and experienced workers. It seeks to instill a behavioral based safety ethic and achieve a high level of safety awareness. A sampling of Occupational Safety Health Administration (OSHA) general industry standards are discussed and their relevance to the oil and gas industry. The class is lecture based with several hands on activities and relies heavily on student instructor interaction. Successful students will receive a PEC Premier Safeland Basic Orientation card (0.5 lect.)

EHS 1510 – OSHA 10-hour General Industry Safety. .5 credit (T)

This course introduces students to Occupational Safety and Health Administration (OSHA) policies, procedures and standards found in the Code of Federal Regulations (CFR). Emphasis will be placed on safety as a core value in the workplace and on the elimination and/or mitigation of hazardous conditions. The scope and application of OSHA general industry standards contained in 29 CFR 1910 will be addressed. Successful students will receive a 10-hour OSHA General Industry card. (.5 lect.)

EHS 1520 – Hazardous Waste Operations & Emergency Response. 3 credits (T)

The Hazardous Waste Operations and Emergency Response (HAZWOPER) course provides essential training well above the Occupational Safety & Health Administration's (OSHA) Hazard Communication standard. The course will cover the rules and regulations of OSHA's HAZWOPER standard (Title 29 Code of Federal Regulations Part 1910.1200). The course will explore the various applications of HAZWOPER regulations and policies that pertain to the elimination, reduction, and prevention of occupational risks/hazards. (3 lect.)

EHS 1550 – Trenching, Excavation & Confined Space Safety. 2 credits (T)

This course presents an overview of the primary standards associated with trenching, excavation and confined space safety as found in the Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) 1910 and 1926. Topics within the trenching and excavation standard include: causes of cave-ins; protective systems; soil mechanics; and competent person training. Con-fined space safety will emphasize: permit-required confined space programs; hazard identification and control; atmospheric testing and monitoring; and the control of hazardous energy. Students will also be introduced to the duties of a confined space entry team. (2 lect.)

EHS 1650 – Defensive Driving. .5 credit (T)

The Defensive Driving course is designed to emphasize driver safety through increased awareness and hazard recognition. The course addresses driving risks and risk reduction techniques, collision avoidance, personal responsibilities, and impaired driving. Each student will be required to pass the National Safety Council's examination for certification (4.0 hour defensive driving). Passing the examination for certification does not guarantee a passing final grade. (.5 lect.)

EHS 1700 – Incident Prevention & Investigation. 3 credits (T)

This course presents an introduction to incident and investigation procedures and analytical techniques. A major emphasis is placed upon the prevention of industrial accidents. Principles of behavior-based safety and techniques for influencing positive behavior change will be taught. The course will also cover accident reconstruction, incident reporting and forms, and basic interviewing skills. Prerequisite: Math 1000. (3 lect.)

EHS 1750 – Process Safety Management. 1 credit (T)

This course will present an overview of the Process Safety Management standard found in the Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) 1910.119. This course will cover the standards and recommendations set forth by OSHA to prevent the release of highly hazardous chemicals (HHC's) through various risk and probability analyses. The primary goal of this course is to identify the requirements for preventing or minimizing the consequences of the release of toxic, reactive, flammable or explosive chemicals. (1 lect.)

EHS 2500 – Environmental Compliance & Technology. 3 credits

This course explores the application of environmental laws and regulations to the implementation of appropriate compliance strategies, industry processes, and current technologies. Regulations concerning the handling and transport of hazardous materials, air and water pollution prevention and management, and environmental auditing and inspections will be explored in detail. (3 lect.)

ENVIRONMENT AND NATURAL RESOURCES**ENR 2010 – Environmental Law. 3 credits (T)**

This survey course introduces the major federal and state laws that establish environmental standards and resource management requirements for energy-industry activities in Wyoming. An introduction to relevant constitutional and administrative law principles will be followed by study of the National Environmental Policy Act, Endangered Species Act, Wyoming Environmental Quality Act, Clean Air Act, Clean Water Act and others. Wyoming case law and examples will be emphasized. (3 lect.)

ENR 2020 – Soils in the Environment. 3 credits (T)

This course will introduce soils and their properties as components of landscapes and ecosystems. Soils knowledge will be applied to problems in environmental sciences and towards the management of agricultural, wildland, and urban landscapes. Additional topics will include principles of soil remediation in impacted landscapes, soil reconstruction practices, and treatment science to repair contaminated soil systems. Prerequisite: Completion of or concurrent enrollment in CHEM 1000. Completion of BIOL 1080 recommended. (2 lect., 2 lab)

ENR 2030 – Environmental Toxicology. 3 credits (T)

This course will provide an introduction to the general principles of toxicology and the impacts of pollutants upon biological health. Major topics include: source and exposure routes of pollutants, basics of quantitative toxicology, effects of exposure, risk perceptions and assessments, and governmental regulations of pollutants. Prerequisites: completion of either BIOL 1010 or BIOL 1020, and completion of CHEM 1000 or CHEM 1020. (3 lect.)

ENR 2040 – Environmental Regulatory Agencies. 1 credit (T)

This course introduces the primary federal and state agencies that regulate energy industry activities impacting natural resources in Wyoming. Foundational review of governmental structure and Wyoming land ownership will be followed by detailing the identity, roles and respective responsibilities and authority of the primary environmental regulatory agencies in Wyoming. Agencies discussed include the Environmental Protection Agency, Wyoming Department of Environmental Quality, Bureau of Land Management, Wyoming Game & Fish Department, Wyoming Oil and Gas Conservation Commission, and others. Agency knowledge will be applied to Wyoming case studies. (1 lect.)

ENR 2050 – Environmental Field Methods. 3 credits (T)

This course will introduce students to sampling protocols, procedures, quality control, preservation technology, field analysis and data interpretation. Course material will be delivered via both lectures and lab; course completion will require several consecutive days of field effort. (2 lect., 2 lab)

COURSE DESCRIPTIONS

ENR 2060 – Intro to Reclamation. 3 credits (T)

This course will provide an introduction to the background and techniques in reclaiming western rangelands. Major topics include the principles of ecology, agronomy, soils, hydrology, and other relevant disciplines as applied to mitigate adverse environmental impacts of land disturbance. Prerequisites: Completion of REWM 1300 and GEOL 1470. Prerequisites: Completion of SOIL 2010, REWM 2000, and REWM 2500 or concurrent enrollment; or instructor permission. (2 lect., 2 lab)

EQUINE STUDIES

EQST 1035 – Horse Production. 3 credits (E)

This course will encompass a thorough understanding of equine evolution, anatomy, physiology, care and management. Students will learn about equine health concerns and how to manage them. (3 lect.)

EQST 1040 – Equine Nutrition. 3 credits (T)

A study of feed compositions, ration balancing, carbohydrates, proteins, minerals and vitamins, figuring Total Digestible Nutrients (TDNs) as they relate to horses. Mineral and vitamin supplements and additives will also be figured. (3 lect.)

EQST 1050 – Horsemanship I. 3 credits (T)

Fundamental knowledge and skill development in horse anatomy and function, conformation, and riding is emphasized in this course, along with Western tack and an introduction to English tack and riding. Cues, aids, gaits and maneuvers are thoroughly explained, demonstrated and practiced. Individual help is given in areas needed. The student must supply a horse and tack for this class. (2 lect., 2 lab)

EQST 1060 – Horse Showmanship I. 3 credits (T)

This course is designed to improve the knowledge and skills of those who plan to show, sell, train, judge or examine horses. Areas covered include structure, conformation, way-of-going, manners, apparel and equipment, rules and requirements of various classes and breed associations, grooming and fitting, handling and showing techniques for both halter and performance classes. The course will include a class horse show. The student must supply a horse and tack for this class. (2 lect., 2 lab)

EQST 1070 – Horsemanship II. 3 credits (T)

A continuation of EQST 1050 with emphasis on correct horsemanship practices, stabling, training, health care and parasite control. Provides fundamental knowledge and skill development in horse anatomy and function, conformation, and riding. Western tack is emphasized with an introduction to English tack and riding. Cues, aids, gaits, and maneuvers are thoroughly explained, demonstrated and practiced. Individual help is given in needed areas. The student must supply a horse and tack for this class. (2 lect., 2 lab)

EQST 1210 – Farrier Science I. 1-3 credits (Max 3) (T)

Detailed study of the equine hoof, its structure, function, defects, conditions, care and correction. (1-2 lect., 1-2 lab)

EQST 1250 – Stock Horse Use & Showing I. 3 credits (T)

A thorough study of the stock horse and its expected performance on the ranch and in the show ring. The student learns how to develop stock horse performance by focusing on: correct horsemanship, reining readiness, penning and snaffle bit and cutting contests. The student must supply a horse and tack for this class. (2 lect., 2 lab)

EQST 1260 – Stock Horse Use & Showing II. 3 credits (T)

A continuation of EQST 1250, this class includes a thorough study of the stock horse and its expected performance in both ranch work and the show ring. The student continues to develop stock horse performance by focusing on: correct horsemanship, reining readiness, penning, working cow horse, snaffle bit and cutting contests. The student must supply a horse and tack for this class. (2 lect., 2 lab)

EQST 1270 – English Equitation I. 3 credits (T)

The fundamental knowledge and skills required to ride the horse as an English mount will be presented to the student. The student will learn how to progressively develop the correct position, balance and independent use of the aids when riding with English tack, and will be introduced to the disciplines associated with English riding including hunt seat, saddle seat, dressage, jumping, and endurance. Other topics covered include conformation considerations and selection of the English mount, equipment, rules and regulations for different disciplines, systematic training techniques and arena exercises. The student must supply a horse for this class. (2 lect., 2 lab)

EQST 1320 – Training for Timed Events. 3 credits (T)

The study of how fundamental concepts and basic horsemanship skills apply to training a timed event horse. Topics covered include conformation and blood lines, types of equipment and their use and training methods. Physical and mental conditioning of both horse and rider will also be stressed. Students will be introduced to the National Barrel Horse Association and the concept of 3-D barrel racing. The course includes a 3-D competition in barrel racing and pole bending. The student must supply a horse and tack for this class. (2 lect., 2 lab)

EQST 1340 – Horse Event Production. 4 credits (Max 8) (T)

This course is designed to provide the future equine professional with the necessary tools to organize any show, event, or clinic related to the equine industry. Major topics include: planning, fund-raising, financing, insurance and advertising. These principles are utilized to plan and operate a horse show and clinic sponsored by Central Wyoming College Equine Program. This course may be repeated for a maximum of eight credits applicable toward graduation. Prerequisite: Completion of EQST 1050. (1 lect., 6 lab) **CLCE**

EQST 1350 – Training the Roping Horse I. 3 credits (T)

This course focuses on the study of conformation and breed characteristics desirable in the roping horse. Included in the course is the examination of various types of equipment and correct fittings for both the horse and rider. Methods of starting the horse on cattle are covered. The student must supply a horse and tack for this course. (2 lect., 2 lab)

EQST 1360 – Training the Roping Horse II. 3 credits (T)

This course is a continuation of EQST 1350, taking the horse started on cattle through the many stages of roping, both in the pen and from a roping box. The emphasis is on correct horsemanship principles as well as physical and mental preparation of the horse and rider. The student must supply a horse and tack for this course. (2 lect., 2 lab)

EQST 1505 – Basic Horsemanship I. 3 credits (T)

Students explore the fundamentals of stable management including basics of English or western riding. This course is for students with no previous riding experience or those wishing to improve their riding skills. Students must provide their own horses. (2 lect., 2 lab)

EQST 1506 – Basic Horsemanship II. 3 credits (T)

This course is a continuation of Basic Horsemanship I (EQST 1505) with emphasis on correct horsemanship practices, stabling, training, health care, and parasite control. It provides fundamental knowledge and skill development in conformation and riding. Western tack is emphasized. Cues, aids, gaits, and maneuvers are thoroughly explained, demonstrated, and practiced. Students must provide a horse. (2 lect., 2 lab)

EQST 1605 – Equine Facility Management I. 3 credits

This course is designed to educate students in safe and effective equine facilities management. Students boarding a horse in a CWC facility must sign up for the Equine Facility Management course. (2 lect., 4 lab)

EQST 1640 (EQST 2200) – Fundamentals of Teaching Riding. 3 credits

Fundamentals of Teaching Riding is a methods course to prepare the prospective riding instructor to teach individual and group riding. It includes methods of teaching safety around a horse, basic knowledge of a horse, seat and saddle. It includes application to dressage, jumping, western riding, longe line work, kinesiology of riding and psychological problems. The student needs to supply horse and tack for this class. (2 lect., 2 lab)

EQST 1810 – Farrier Science II. 3 credits (T)

This class is a continuation of Farrier Science I. a detailed study of the equine hoof is continued, addressing form to function, and how it affects normal conditions and corrective shoeing. Prerequisite: Completion of EQST 1210. (2 lect., 2 lab)

EQST 1811 – Farrier Science III. 3 credits (T)

In this advanced farrier science course, students will be working with forge, cold and hot shaping shoes, mapping out foot, trimming and dressing of foot, being able to determine size and type of shoe, horsemanship, lameness issues, nailing on shoes, and finishing the foot. Prerequisite: Completion of EQST 1810. (2 lect., 2 lab)

EQST 2060 – Horse Showmanship II. 4 credits (T)

This is an advanced course in horse showmanship designed to provide the future equine professional with horse showing experience. The course will cover show preparation, hauling, performance horse care, warm-up strategies, show ring strategies, performance evaluation, and expense tracking. Students will attend a minimum of three preapproved open horse shows. At least one attended show must be out of county. Students must supply their own horse, tack, and transportation for this class. Prerequisite: Completion of EQST 1070 & EQST 1060. (1 lect., 6 lab)

EQST 2210 – CHA Certification. 3 credits

This is actual certification for students who have completed EQST 2200. Students receive a certification from CHA, The International Association for Safety and Education in Group Riding. This course prepares the student to develop teaching skills and lesson plans, to keep riders safe with group control, and to practice safety at all times. Officials from the CHA Association issue the certification. A certification fee will be assessed. The cost of the fee depends upon the number of students enrolled and the cost assessed by the CHA Association. Prerequisites: Completion of EQST 2200 and instructor's permission. (3 lect.)

EQST 2280 – English Equitation II. 3 credits (T)

A continuation of EQST 1270 with emphasis on correct horsemanship skills and safety. A continuation of basic English equitation with emphasis on refinement of basic dressage and jumping skills. The student must supply a horse for this class.



COURSE DESCRIPTIONS

(2 lect., 2 lab)

EQST 2610 – Equine Facility Management II. 3 credits.

In this course students will plan, design and cost out their own horse facility, paying attention to safety, cost and ease of use. Students who have completed Facilities Management I and are boarding a horse in a CWC facility must sign up for the Equine Facility Management course. Prerequisite: Completion of EQST 1605. (2 lect., 4 lab)

EQST 2620 – Equine Facility Management III. 1 credit (2 Max)

This course is designed for EQST students who have completed both Facilities Management I and II and are boarding horses in the Equine Center. The course will require that students: 1) attend one class weekly, 2) lead the monitoring teams, 3) properly care for their boarded horse(s), and 4) give a presentation to the class. The class will be taken for a letter grade only. Prerequisite: Completion of EQST 2610. (2 lab)

EQST 2640 – Fundamentals of Teaching Riding II. 3 credits

Fundamentals of Teaching Riding II is a continuation of EQST 1640. It includes preparation for the prospective riding instructor, safety around a horse, proper seat position and its application to dressage, jumping, western riding, class control, longe line work and the evaluation of physiological problems in riding. During this course students will prepare lessons and teach alongside another instructor, then progress to teaching lessons independently. Prerequisite: Completion of EQST 1640. (2 lect., 2 lab)

EQST 2645 – Fundamentals of Teaching Riding III. 3 credits

Fundamentals of Teaching Riding III is a continuation of EQST 2640. The emphasis in this course is on group lectures. It is a continuation of educating the prospective riding instructor in safety, correct seat and its application to riding disciplines, class control, kinesiology of riding and psychological problems in riding. During this course students will prepare and teach lessons independently throughout the semester. Prerequisite: Completion of EQST 2640. (2 lect., 2 lab)

EQST 2655 – Wilderness Horsepacking. 1-5 credits (T)

This course teaches wilderness users to practice responsible habits that promote the health and safety of self, others and livestock. Students are exposed to the theory and practice of outdoor leadership, teamwork and expedition behavior utilizing horses as an accessible, efficient and environmentally sound mode of wilderness travel. Students will apply principles of ecology during the wilderness experience. Prerequisite: National Outdoor Leadership School (NOLS) permission. (1-5 lect.)

EQST 2695 – Basic Horsemanship III. 1-3 credits

This course is a continuation of Basic Horsemanship II (EQST 1506). Students will further develop and perfect knowledge and skills of basic techniques, as well as develop riding skills at a more advanced level. This course will also introduce the students to correct equestrian skills at a lope/canter with safety and control. *Students must provide their own horses.* Prerequisite: EQST 1506.

(.5 lect., 1 lab/1 lect., 2 lab/2 lect., 2 lab)

EQST 2710 – Intro to Combined Training. 3 credits

This course is designed to provide the English riding student an introduction to the fundamental knowledge and skills necessary to produce a combined training horse utilizing the disciplines of dressage, show jumping, and the principles of cross country training. The emphasis will be on the athletic development of the horse through a systematic approach. Topics covered include: conformation and selection of the event horse, equipment, rules, regulations and training techniques. *The student must supply a horse for this class.* Prerequisite: Completion of

EQST 1270 and/or instructor's permission. (2 lect., 2 lab)

FACILITIES MAINTENANCE TECHNOLOGY

ENTK 1080 – Principles of Technology I. 4 credits

Principles of Technology I is designed to be a first semester course introducing students to the concepts of force, work, rate, resistance, energy, power, momentum, force transformers, waves and vibration, energy converters, transducers, and light optical systems as they relate to mechanical, fluid, electrical, and thermal systems. All concepts are reinforced through technology-related laboratory experiments. Prerequisites: Completion of MATH 1500. (3 lect., 2 lab)

FMT 1500 – Custodial-Facilities Attendant. 3 credits

This course introduces students to the safe, efficient, and effective performance of custodial duties in a commercial environment. Major topics of this course include chemical cleaning agents, effective disinfectant application, cleaning and polishing techniques for a variety of surfaces, cleaning techniques for different floor coverings including carpet, tile, and hardwood floors, and spot and stain removal techniques for a variety of surfaces. This course also introduces students to techniques used to efficiently and effectively clean restrooms, showers and culinary facilities. Students will be required to demonstrate mastery of safety, work ethic, soft and technical skills required of custodial - facilities attendant. Prerequisites: Completion of CNTK 1510. (2 lect., 2 lab)

FMT 1505 – Intro to Life Safety Codes. 2 credits

This course introduces students to codes and guidelines applicable to Facilities Maintenance Technology. Emphasis is placed on using codes and guidelines to answer relevant facilities maintenance questions. Codes and guidelines examined in this course include: National Fire Protection Association (NFPA) 101 Life Safety Codes, International Building Code (IBC), Americans' with Disabilities Act (ADA) Codes, National Electric Code (NEC), and the National Standard Plumbing Code (NSPC). (2 lect.)

FMT 1510 – Grounds Maintenance. 4 credits

This course introduces students to the grounds safety hazards, tools and equipment safety and operation. Students are taught accident prevention practice, shop housekeeping, equipment inspections and preventative maintenance. Emphasis is also placed on sustainable landscaping, mulching and composting, water management systems and conservation practices. Students are provided opportunities to develop and apply grounds maintenance skills including safety, work ethic, soft and technical skills. Prerequisites: Completion of CNTK 1510. (3 lect., 2 lab)

FMT 1520 – Industrial Mechanics. 4 credits

This course introduces students to the mechanical body of knowledge needed to perform maintenance on facilities equipment. Emphasis is placed on precision measurement instruments, basic concepts of industrial chain and belt drive systems, bearings and lubrication systems, shaft alignment procedures, maintenance and trouble shooting of valves, gears, and pumps. Students will be required to calculate sprocket and pulley sizes to acquire desired machine shaft speeds, use both reverse dial/rim and rim/face shaft alignment procedures, perform vibration analysis, and maintain and trouble shoot valves, gears, and pumps. Prerequisite: Completion of MATH 1500 and CNTK 1510. (3 lect., 2 lab.)

FMT 1530 – Crew Leadership I. 2 credits

This course introduces students to the tools necessary to manage

a crew. Specific attention is given to developing the skills to enhance quality, productivity, and safety in the work environment. This course also provides students the opportunity to develop skills supervising a work crew under the direction of an instructor. (2 lect.)

FMT 1540 – Crew Leadership II. 2 credits

This course is a continuation of FMT 1530, Crew Leadership, which develops an entry-level supervisor's skills and will focus on critical thinking skills to implement the core concepts that are vital to crew leadership. Students will have the opportunity to continue to develop entry-level supervisory skills under the direction of an instructor. Prerequisite: Completion of FMT 1530. (2 lect.)

FMT 1550 – Energy & Environmental Management. 3 credits

This course will introduce to students how their daily activities at work and home affect the green environment. Topics include carbon footprint, solid waste, alternative construction methods and materials, heating and cooling, pollution and control measures, and indoor quality air. Best practices in energy, site protection and restoration, landscaping, water and waste water management are addressed. (3 lect.)

FMT 1600 – Building Maintenance. 5 credits

This course is designed to introduce students to basic building maintenance skills. The course is an overview of the anatomy of a house, types of building materials, building codes and permits. Prerequisites: Completion of CNTK-1505, CNTK-1510, and CNTK-1520. (4 lect., 2 lab)

FMT 1650 – Basic HVAC Control Systems. 3 credits

This course is designed to provide students with instruction on basic HVAC theory, control systems concepts, and terminology. Students will receive hands-on training operating, troubleshooting and repair basic heating, ventilation, and air conditioning (HVAC) systems. Prerequisite: Completion of ELEC 1610. (2 lect., 2 lab)

FAMILY AND CONSUMER SCIENCES

FCSC 1140 (HOEC 1140) – Nutrition. 2 credits (E)

This class will provide students with an in-depth study of nutrition. Students will gain fundamental principles of nutrition and physiology, and apply these to his/her life as well as influence others in proper nutritional concepts. This course is designed for students interested in general body nutrition and for those who have the desire to keep abreast of the latest technology in food as it relates to health and well-being. The course is recommended for students in physical education, nursing and early childhood development but is open to others as well. (2 lect.)

FCSC 2131 – Family Relations. 3 credits (E)

This course provides an overview of current research on family relations, family theory, and family dynamics across the lifespan. An ecological and family system approach will be used, with particular focus paid to the understanding of contextual influences on families. (3 lect.)

FILM – See: *Radio/TV/Film or Communication*

FIRE SCIENCE

FIRE 1505 – National Incident Management System. 3 credits

This course introduces students to the National Incident Management System (NIMS) and to the orientation and purpose of the Incident Command System (ICS). The NIMS provides a consistent nationwide template that enables all government, private sector, and non-governmental organizations to work together during domestic incidents. Basic features, principles, key components, and benefits of the NIMS as well as topics in leadership and management, briefings, organizational flexibility, and the National Response Plan as related to the NIMS are addressed. (3 lect.)

FIRE 1515 – Firefighter I: Structure I. 4 credits

This introductory course focuses on the minimum entry-level job performance requirements to become qualified as a Firefighter I. Topics covered in the course include the history, tradition, and development of the American Fire Service; fire department organization; fire behavior, communications and alarms, and firefighter safety; personal protective clothing; an introduction to types of fire equipment and its appropriate use; and an overview of building construction and ventilation. In order for the student to become certified as a Firefighter I, the student must successfully complete FIRE 1515, FIRE 1516 and FIRE 1517. (4 lect.)

FIRE 1516 – Firefighter I: Structure II. 4 credits

This course is a continuation of FIRE 1515, Firefighter I: Structure I. This course continues to focus on the entry-level job performances required to become qualified as a Firefighter I. Topics covered in this course include ropes and knots; rescue procedures, and forcible entry; fire suppression, salvage, overhaul, and determination of cause of fire; fire prevention and education, emergency medical services and firefighter survival, and hazardous materials awareness and operations. In order for a student to become certified as a Firefighter I, the student must successfully complete FIRE 1515, FIRE 1516, FIRE 1517, and pass the Wyoming State Certification Test for Firefighter I that is administered upon the completion of FIRE 1516. Prerequisite: Completion of FIRE 1515. (4 lect.)

FIRE 1517 – Firefighter I: Field Experience. 4 credits

This course is the culminating course for Firefighter I certification and requires Completion of all performance evaluations and skills sheets as outlined by the Wyoming Department of Fire Protection and Electrical Safety or the Authority Having Jurisdiction (AHJ). In order for the student to become certified as a Firefighter I, the student must successfully complete FIRE 1515, FIRE 1516 and FIRE 1517. Prerequisite: Instructor's permission. (4 lect.)

FIRE 1550 – Arson Detection for the First Responder. 1 credit

This National Fire Academy (NFA) course is designed to define the role of the initial responder organization. The course emphasizes the importance of the initial responder's ability to recognize the potential of an intentionally set fire, to preserve evidence, and to properly report the information to appropriate officials. This course is one in a series that is currently required to receive consideration for officer certification in the State of Wyoming. This course is normally taught in a weekend format and attendance is required. (ADFR F201) (1 lect.)

FIRE 1620 – Pumps, Water, & Wildland Fire. 2 credits

This course is designed to introduce the student to proper selection of equipment in maintaining a flow of water for suppressing a fire as required during a fire incident. Topics covered will include the identification of basic components of a pump and how it operates: pump maintenance performed by a pump operator while supplying water for wildland fire activities; and identification of safety equipment and personal protective equipment required for the safe operation of portable pumps. Prerequisite: Completion of FIRE 1810 or instructor's permission. (2 lect.)

FIRE 1800 – Wildland Operations Urban Interface. 2 credits

This course is designed to assist structure and wildland firefighters who make tactical decisions when confronting a wildland fire that threatens life, property and improvements within the wildland/urban interface. The course content focus is on strategies used to develop an incident action plan and public and firefighter safety. Structure triage, structure protection tactics and public relations are also addressed in the course. The course is beneficial for leaders from municipal planning, law enforcement and emergency management disciplines. (NWCG S-215) (2 lect.)

FIRE 1805 – Dispatch Recorder. 1 credit

This course is designed to train potential dispatch recorders on the structure of an expanded dispatch organization in order for them to effectively perform within the organization. Instruction will include the purpose and process of completing the resource order and other dispatch forms and establishing dispatch procedures. The course is intended to be an interactive experience in which the student will interact with the materials, the instructor, and fellow students. This course is taught in an intensive two-day format and attendance is mandatory. (NWCG D-119) (1 lect.)

FIRE 1810 – Intro to Wildland Firefighting. 3 credits

This course is designed to introduce the student to entry-level wildland firefighting skills and emphasizes the primary factors affecting the start and spread of wildfire as well as recognition of potentially hazardous situations. This course is a combination of two National Wildland Coordinating Group courses: S-190, Introduction to Wildland Fire Behavior and S-130, Firefighter Training (3 lect.)

FIRE 1815 – Intro to Wildland Firefighting Simulation. 1 credit

This field-based course focuses on the proper use, handling, and maintenance of hand tools and different fire equipment. The student will demonstrate line construction and methods; water use and handling methods; and proper travel procedures en route to and from a fire. The student will construct simple and progressive hose lays and participate in an "after action review". The student must furnish full personal protective equipment. A simulated fire exercise is included. Prerequisite: Completion of FIRE 1810. (1 lect.)

FIRE 1830 – Intermediate Wildland Fire Behavior. 3 credits

This course is designed to prepare the experienced firefighter and prospective supervisor in undertaking safe and effective fire management operations through interpretation and documentation of both current and predicted fire behavior and weather. From examples and using different methods of calculation, including the Fireline Assessment Method (FLAME), the student will calculate rate of spread and flame lengths. This is the second course in a series that collectively serves to develop fire behavior prediction knowledge and skills. (NWCG S-290) Prerequisite: Completion of FIRE 1810 or

instructor's permission. (3 lect.)

FIRE 1835 – Intro to Wildland Fire Behavior Calculations. 3 credits

This course is designed to help students develop skills required for predicting effective fire behavior by applying fire behavior calculations using manual methods and nomograms and the Fire Behavior Handbook Appendix B. The skill of interpreting fire behavior output is developed by studying the determinants of fire behavior and applying input factors of wind, slope, fuels, and fuels moisture. By using fire behavior prediction models, documentation processes, and interpretation briefing components, the student develops skills in communicating and documenting wildland fire behavior and weather information. This course is taught in an intensive five-day format and attendance is mandatory. (NWCG S-390). Prerequisites: Qualified as any single resource boss or completion of FIRE 1830 and instructor's permission. (3 lect.)

FIRE 1840 – Crew Boss. 2 credits

This course is designed to develop skills and proficiency for responsibilities and duties associated with a single resource boss position. The course content focuses on initial dispatch through demobilization to the home unit. (NWCG, S-230). Prerequisites: Completion of FIRE 1830 or instructor's permission. (2 lect.)

FIRE 1841 – Chain Saws in Wildland Fire. 2 credits

This entry-level course is designed to introduce the student to chain saw use in the wildland fire environment. The course will primarily focus on proper safety requirements, maintenance, tasks, and saw techniques as they are related to the use of chain saws on the fireline. Prerequisite: Completion of FIRE 1810 or instructor's permission. (2 lect.)

FIRE 1845 – Engine Boss. 1 credit

This course is designed to develop skills and proficiency in the performance of duties associated with engine boss, single resource (ENGB). The course content focuses on examining engine and crew capabilities and limitations, information sources, fire size-up considerations, tactics, and wildland/urban interface. (National Wildland Coordinating Group S-231). Prerequisites: FIRE 1840 or instructor's permission. (1 lect.)

FIRE 1850 – Interagency Incident Business Management. 1 credit

This course is designed to provide students with the foundation for basic incident business and management skills required to perform tasks in the position identified by the National Incident Management System (NIMS). The course is designed to be interactive in nature as the following topics are addressed and discussed: conduct and ethics for incident support, pay provision and timekeeping/recording, commissary, compensation for injury/illness, travel, property management, claims, and interagency cooperative relations. This course is taught in an intensive two-day format and attendance is mandatory. (NWCG S-260) (1 lect.)

FIRE 1851 – Initial Attack Incident Commander. 1 credit

This course is designed to meet the training needs of the Incident Commander Type 5 (ICT4), which is a position within the National Incident Management System (NIMS) and recognized by the National Wildland Coordinating Group (NWCG). The ICT4 rank is used in fire and all-risk incidents. Instruction will include fire readiness and mobilization, methods of sizing up a fire, deployment and containment of a fire, as well as administrative requirements and post-fire evaluation. It is presented in a lecture/discussion format and supplemented with group exercises. This course is taught in an intensive two-day format and attendance is mandatory. (NWCG S-200) Prerequisites: Qualified as

any single resource boss and instructor's permission. (1 lect.)

FIRE 1852 – Field Observer. 1 credit

This course is designed to meet the training requirements for the position of Field Observer on a wildfire and/or as a prescribed fire monitor as outlined in the Wildland Fire Qualifications System Guide and the Position Task Books. Instruction is designed to develop a student's skills in identifying and interpreting maps, performing map calculations, using observation aids and instruments, performing field observations, and communicating information. This course is taught in an intensive two-day format and attendance is mandatory. This class will include a one-day field trip and may have pre-coursework requirements. (NWCG S-244) Prerequisites: Qualified as any single resource boss or completion of FIRE 1830 and instructor's permission. (1 lect.)

FIRE 1855 – Applied Interagency Incident Business Management. 1 credit

This course is designed for students interested in entry-level finance positions within the National Incident Management Systems (NIMS) such as commissary managers, personnel time recorders, equipment time recorders, injury compensation specialists, and claims specialist. These positions are used in fire and all-risk incidents. Instruction includes assembling the "Kit" for the first 48 hours of an incident; training as personnel time recorder, commissary manager, equipment time recorder, injury compensation specialist, and claims specialists. The course is taught in an intensive two-day format and attendance is mandatory. (NWCG S-261) Recommend: Completion of FIRE 1850 or prior incident experience in finance. (1 lect.)

FIRE 1900 – Facilitative Instructor. 3 credits

This course is designed to prepare students in becoming effective facilitative instructors. The goal of this course is to improve training quality by presenting instructional methods with an emphasis on student-oriented adult training techniques. This course is designed to meet the National Wildland Coordination Group instructor requirements. (NWCG M-410) (3 lect.)

FIRE 2515 – Firefighter II: Structure. 3 credits

This course is designed for career or volunteer firefighters to further develop their firefighting skills to meet the minimum job performance requirements for the second level of progression in firefighting. Topics include the Incident Command System (ICS), assuming the transferring of command, and the Wyoming Fire Incident Reporting system (WFIRS). The primary focus of the course is on identifying foams, gas fires, auto extrication, building construction and roof types, fire hydrants including types and tests, sprinkler systems, and fire protection systems. A person trained at the Firefighter II level will function safely and effectively as an integral member of a team of equally or less experienced firefighters to accomplish a series of tasks. Prerequisites: Completion of FIRE 1517, certified as a Structure Firefighter I and instructor's permission. (3 lect.)

FIRE 2516 – Firefighter II: Field Experience. 3 credits

This course is the culminating course for Firefighter II certification and requires completion of all performance evaluation and skills sheets as outlined by the Wyoming Department of Fire Prevention and Electrical Safety or the Authority Having Jurisdiction (AHJ). Students successfully completing Firefighter II: Structure and belonging to an approved firefighting organization can qualify for issuance of a Firefighter II certificate. Students enrolling in this course are required to demonstrate skill proficiency in areas such as assuming and transferring command, utilizing the Incident Command System, basic fire reporting, extinguishing an exterior combustible liquid fire, interior attack in a structure fire, etc. Prerequisites: Certified as a Structure Firefighter I, FIRE 2515 and instructor's permission. (3 lect.)

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FIRE 2517 – Division/Group Supervisor. 1 credit

This course is designed to help the student develop skills required to perform as a division/group supervisor. Topics discussed are division/group management, organizational interaction, and division operations. The instruction is focused on support of the specific tasks performed by a division/group supervisor and not on the tasks performed by general management/supervisors as outlined in the National Incident Management System (NIMS) or Incident Command System (ICS). This course is taught in an intensive two-day format and attendance is mandatory. (NWCG S-339) Prerequisites: NWCG qualified as a Task Force Leader or Incident Commander Type 3 and instructor's permission. (1 lect.)

FIRE 2518 – Task Force/Strike Team Leader. 2 credits

This course is designed to meet the training requirements for Task Force Leader and Strike Team Leader as outlined in the wildland Fire Qualifications System Guide and Position Task Books. Examples, exercises, and major topics in the course are specific to wildland fire suppression. Major topics such as pre-incident and mobilization responsibilities; pre-engagement, engagement, and post-engagement; initial attack, incident transition, and type 3 organization; demobilization; military assignments; and all-risk are included in the course. This course is taught in an intensive three-day format and attendance is mandatory. (NWCG S-330) Prerequisite: Qualified as any single resource boss and instructor's permission. (2 lect.)



FIRE 2520 – Ignition Operations. 2 credits

This is an entry-level course providing training in the functional roles and responsibilities connected with the position of fire boss (FIRB) and firing operation, the act of lighting fires for prescribed fire burns, or for controlling wildland fire burns. The course focuses on planning, ignition procedures and techniques, and equipment applicable to wildland and prescribed fire. This course is not intended to qualify or certify any personnel in the use, storage or transport of any firing device. Rather, it is to provide the potential firing boss a description of available equipment and the requirements specific to each such device. This course is taught in an intensive 32-hour format and attendance is mandatory. (NWCG S-234) Prerequisite: Completion of FIRE 1830. (2 lect.)

FIRE 2528 – Hazardous Materials Technician. 5 credits

With the increasing number of hazardous material calls received by fire departments, this course is designed to increase the training level for personnel/students who have completed training in hazardous materials awareness and operations. This course consists of a review of basic OSHA, EPA, NFPA, and DOT regulations. The course emphasizes the additional responsibilities as a technician level responder including effective and controlled scene management. Basic chemistry and hazardous materials strategies applied to an emergency response situation including, but not limited to, establishing all hazard control zones, site organization, medical surveillance, selecting proper public protective equipment and public protective actions, and damage assessment are discussed. Students who pass the Hazardous Materials Technician Level requirements set forth by the State of Wyoming or the Authority Having Jurisdiction may use this course for certification. Prerequisites: FIRE 1517 and FIRE 2530, or Instructor's permission. (4 lect., 2 lab)

FIRE 2530 – Hazardous Materials: Awareness & Operations. 3 credits

This course is intended as training for all personnel seeking to qualify as Awareness and Operations Level Responders to hazardous materials incidents. The primary focus of the course is on NFPA 472, "Professional Competence of Responders to Hazardous Materials Incidents"; OSHA 29 CFR 1910.120 (q). EPA 40 CFR 311; and the Office of Domestic Preparedness, "Emergency Responder Guidelines for Awareness Level and Operational Level for Firefighters and Law Enforcement Officers." This course is taught in an intensive five-day format and attendance is mandatory. (3 lect.)

FIRE 2580 – Firefighter Line of Duty Death & Injury. 1 credit

This course is designed for fire service supervisory, managerial, and policy making/influencing personnel with the goal of reducing line of duty deaths and injuries. This class is one in a series that is currently recommended to receive consideration for officer certification from the State of Wyoming. This course is normally taught in a weekend format and attendance is required. (1 lect.)

FIRE 2710 – Leadership I: Strategies for Company Success. 1 credit

This course provides the company officer with basic leadership skills and tools needed to perform effectively in the fire service environment. This course is recommended for line officers, unit commanders, program supervisors, training officers, staff or administrative officers, or for individuals seeking a supervisory position within a fire or rescue organization. This class is one in a series that is currently required to receive consideration for officer certification from the State of Wyoming. This course is normally taught in a weekend format and attendance is required. (NFA F803) (1 lect.)

FIRE 2720 – Leadership III: Strategies for Supervisory Success. 1 credit

This course is a study of various strategies and techniques utilized in the fire service environment by a company officer to supervise personnel. The course is recommended for individuals including line officers, unit commanders, program supervisors, training officers, and staff or administrative officers seeking a supervisory position within a fire or rescue organization. This course is one in a series that is currently required to receive consideration for officer certification from the State of Wyoming. This course is normally taught in a weekend format and attendance is required. (NFA H805) (1 lect.)

FIRE 2725 – Followership to Leadership. 1 credit

This training course is designed as a self-assessment opportunity for individuals preparing to step into a leadership role in fire and all-risk incidents. The course focuses on transition challenges for new leaders, leadership values, creating a cohesive team environment, situational leadership, and ethical decision-making. The course combines one day of classroom instruction followed by a second day in the field with students working through a series of problem-solving events in small teams. (NWCG L-280) Prerequisite: Completion of FIRE 1810 or instructor's permission. (1 lect.)

FIRE 2730 – Intro to Fire Inspection Principles & Practices. 2 credits

This course is an introduction to fire inspection principles and practices. The course content emphasizes steps required for conducting a fire prevention inspection, identifying basic code deficiencies and appropriate methods to correct code deficiency, roles of codes, and stand-ards in fire inspection. The examination and illustration of the complexity of today's building designs and systems, identifying basic types of construction, subsystems and subsystems functions, classifications of occupancies, fire protection systems and devices, and describing procedures to validate operations readiness of fire protection systems and devices are included. The student is taught to recognize the presence of hazardous materials or process and the presence of fire hazards in structures. This course is taught in an intensive three-day format and attendance is mandatory. (NFA) (2 lect.)

FIRE 2735 – Managing in a Changing Environment. 1 credit

This course addresses the concepts, functions, and responsibilities essential at the intermediate management level, as well as issues affecting mid-level management personnel in the fire service. The course focuses on the major areas such as economic, social, political, and technological influences, having an impact on the future of the fire service. The student is directed to identify specific major areas concerning economic, social, political, and technological influences that are and/or will have an impact on their fire service organization and on them personally. The student will examine, discuss, and practice strategies for managing the changes brought about by the identified influences. This course is taught in an intensive two-day format and attendance is mandatory. (NFA) (1 lect.)

FIRE 2740 – Managing Company Tactical Operations: Preparation. 1 credit

This course is designed to meet the needs of fire officers and crew leaders with responsibilities in managing the operations of one or more companies in structural firefighting operations. Emphasis is placed on the rules and responsibilities, readiness, communication, factors concerning building construction and fire behavior, pre-incident preparation, and fire flow calculations used by fire officers and crew leaders in a structural fire emergency. This course is taught in an intensive two-day format and attendance is mandatory. (NFA) (1 lect.)

FIRE 2745 – Managing Company Tactical Operations: Decision Making. 1 credit

This course is designed to provide an effective approach to command decision making and organization. It is designed to meet the needs of fire officers and crew leaders with responsibilities to manage the operations of one or more companies in structural firefighting operations. The components include preparation for response, decision making and tactical operations. The foundation of the course is an extensive use of simulation to provide application of concepts and the development of skill. This course is taught in an intensive two-day format and attendance is mandatory. (NFA) (1 lect.)

FRENCH - SEE: LANGUAGES



GEOGRAPHY

GEOG 1100 – Intro to Geographic Information Systems. 4 credits (T)

This course introduces fundamental concepts associated with Geographic Information Systems (GIS). Topics include geospatial data models; data acquisition; data integration from global positioning systems (GPS) and geocoding. Additional class time will be devoted to data manipulation, presentation and editing. Prerequisites: Completion of MATH 0900 or test into MATH 0920 or higher. (3 lect., 3 lab.)

GEOG 2100 – Advanced Geographic Information Systems. 4 credits (T)

This course provides an introduction to the analysis techniques used in Geographic Information Systems (GIS) and the application of the techniques to GIS problem solving. Topics include analyzing and querying tabular data, editing and modification of GIS data, spatial joins, raster and vector analysis, and the use of overlay tools. Prerequisites: Completions of GEOG 1100. (3 lect., 3 lab)

GEOG 2110 – Techniques in Cartography. 4 credits (T)

This course introduces the principles and practices of digital map making and cartographic representation. Content will emphasize basic principles of map design and creation and will employ techniques associated with geographic information system (GIS) data analysis and output phases. Topics will include map design principles, symbolization, data classification, map scale and generalization, typography, and color theory. Prerequisites: Completion of GEOG 1100 and GEOG 2150. (3 lect., 3 lab)

GEOG 2120 – Geographic Information System Databases. 3 credits (T)

This course presents an introduction to the structure and use of geodatabases. Topics include general database theory; and the creation, editing, and management of relational databases and geodatabases. Prerequisites: Completion of GEOG 1100, GEOG 2100 and GEOG 2150. (3 lect.)

GEOG 2125 – Geographic Information System Database Applications. 1 credit (T)

This course provides instruction and practical exercises relating to the design and creation of geodatabases, the geodatabase interface with global positioning systems (GPS); and techniques for optimizing geodatabases. Prerequisites: Completion of GEOG 1100, and GEOG 2150; and completion of GEOG 2120 or concurrent enrollment. (0.5 lect., 1 lab)

GEOG 2130 – Spatial Analysis. 4 credits (T)

This course introduces students to using statistical techniques for solving spatial problems. Students will learn to apply the principles of statistics to address the distributional and locational aspects of spatial data within a variety of situations. Topics include spatial sampling, measures of dispersion and central tendency in spatial analysis, spatial autocorrelation, regression analysis, hypothesis testing, and decision support analysis. Prerequisites: Completion of GEOG 1100, GEOG 2100 and GEOG 2150; MATH 1000 or MATH 1400; and STAT 2050 or STAT 2070. (3 lect., 3 lab)

GEOG 2135 – Applied Global Positioning Systems for Geographic Information Systems. 3 credits (T)

This course covers the principles and fundamentals of global positioning systems (GPS) and the integration of GPS into geographic information systems (GIS). Major topics include GPS system principles, operations, and techniques to improve accuracy. Course content also includes applications of datum, projections, coordinate systems, differential correction and accuracy assessments. (2 lect., 2 lab)

GEOG 2140 – Remote Sensing. 4 credits (T)

This course provides a foundation in the skills and techniques to acquire, enhance, interpret, and analyze aerial-photography and digital imagery using visual and computer-based methods. Topics include the basics of electromagnetic radiation, imaging systems, digital data, landscape interpretation, and digital image processing techniques. This course also includes mobile mapping and the use of the global positioning system (GPS) in geographic information system (GIS) integration. Prerequisites: Completion of GEOG 1100, GEOG 2100 and GEOG 2150. (3 lect., 3 lab)

GEOG 2150 – Geoinformation Science & Technology. 4 credits (E)

This course provides an overview of the role of geographic information science, maps, and technology in contemporary geospatial problem solving. Major topics include the foundations and applications of geographic information systems (GIS), global positioning systems (GPS), and remote sensing (RS). The course will involve the application of geospatial concepts, including coordinate systems and map projections, introductory mapping skills, and societal applications of geospatial technologies. Prerequisites: Completion of MATH 0900 or test into MATH 0920 or higher. (3 lect. 3 lab) *LSCI*

GEOG 2160 – Geographic Information Systems & Programming. 3 credits (T)

This course provides an introduction to advanced geoprocessing techniques and scripting. Topics include working with a model builder, scripting fundamentals and geographic information system (GIS) customization. Prerequisites: Completion of GEOG 1100, GEOG 2100, GEOG 2150 and MATH 1400. (3 lect.)

GEOG 2170 – Capstone Project in Geographic Information Systems. 3 credits (T)

This course is designed to provide support to students as they establish, design and complete a capstone project using geographic information systems (GIS). The completion of this project will require researching, planning, building, implementing, testing and presenting the GIS solution. Topics for this course include: project selection, developing a project plan, data capture and management, data analysis, data output and project closure. Prerequisites: Completion of GEOG 1100, GEOG 2100, and GEOG 2150. (3 lect.)

GEOGRAPHY AND RECREATION

G&R 1000 – World Regional Geography. 3 credits (E/CS/G)

This course explains the modern world's great geographic realms and their human and physical contents, their assets and liabilities, links and barriers, potentials and prospects. It introduces geography itself, the discipline that links human societies and natural environments. (3 lect.)

G&R 1010 – Intro to Physical Geography. 3 credits (E/SE)

This course provides a systematic study of natural aspects of geographic environment including weather and climate, soils, vegetation and land forms. (3 lect.)

G&R 1020 – Intro to Human Geography. 3 credits (E/CS/G)

This is an introductory course in human (cultural) geography for students who may not have previously taken a college-level geography course. The main purpose of the course is to introduce students to the study of geography as a social science by emphasizing the relevance of geographic concepts to human problems. We try to answer two basic questions: Where are people located on the earth's surface? and; Why are they located in particular places? (3 lect.) **SO**

G&R 1090 – Avalanche Level 1: Decision Making in Avalanche Terrain. 1 credit (T)

This course provides a complete introduction to the avalanche phenomenon, avalanche terrain, decision making, and rescue protocol. The course is designed for those new to travel in avalanche terrain. Instruction will increase avalanche awareness and safety for participants in all forms of winter recreation: snowshoeing, skiing, snowboarding, and snowmobiling. Students will spend about 8 hours in the classroom and about 16 hours outdoors in the snow. This course is taught in partnership with the American Institute for Avalanche Research and Education (AIARE) and successful students will receive a certificate of completion for the AIARE Level - 1 Avalanche Training. (.5 lect., 1 lab)

G&R 1150 – Outdoor Recreation. 3 credits

This course provides students with foundational knowledge of outdoor recreation practices and delineates a variety of career options in the field of outdoor recreation. A detailed study includes delivery of recreational programming through parks, public recreation departments, nonprofit organizations, commercial recreation tourism, and therapeutic recreation. In addition, this course will cover how US public lands are managed for a variety of recreation activities. (2 lect., 2 lab)

G&R 2020 – Mountaineering. 1-5 credits (Max 8) (T)

Along with a wide range of mountaineering techniques, this course prepares students in map-reading and route finding, minimum-impact camping and first aid. Safety, judgment, leadership skills, and environmental ethics are stressed. While this course will focus on

outdoor skills, expedition behavior will be part of the course curriculum. Students will learn to live and work closely with classmates. Tolerance for adversity and uncertainty, respect for others and the environment and a willingness to work hard will be critical to success. Students should expect ongoing verbal coaching and feedback throughout the course, as well as verbal performance summaries at the end of each section. This course may be repeated once in a different location. (1-5 lect.)

G&R 2030 – Wilderness Backpacking. 1-5 credits (Max 8) (T)

This course teaches wilderness users to practice responsible habits that promote the health and safety of self and others. Students are exposed to the theory and practice of outdoor leadership, teamwork and expedition behavior. Students will learn to live and travel in the wilderness within a framework of personal safety and care of the environment. Students will develop an awareness of how to apply "Leave No Trace" philosophy to their lives beyond the course. Students will apply principles of environmental ethics during the wilderness experience. This course may be repeated once if in a different location. (1-5 lect.)

G&R 2031 – Combined Expeditions. 1-5 credits (Max 4-10)

This is an expedition-based course, emphasizing leadership and teamwork. Various offerings of this course include both land and water sections emphasizing different skills, such as backpacking, kayaking, canoeing or climbing. While this course will focus on outdoor skills, expedition behavior will be part of the course curriculum. Students will learn to live and work closely with their course mates. Tolerance for adversity and uncertainty, respect for others and the environment, and a willingness to work hard will be critical to success. Students should expect ongoing verbal coaching and feedback throughout the course, as well as verbal performance summaries at the end of each section. This course may be repeated once with a different skill set or in a different location. (1-5 lect.)

G&R 2032 – Winter Expeditions. 1-5 credits (Max 4-6)

This course is designed to enable you to enjoy winter in the mountains safely and comfortably. Snow travel may be either by skiing or snowboarding. Winter mountain skills taught include cold injuries, dressing for winter, avalanche awareness, and snow shelters. Skills will be practiced both in the backcountry and a base camp or other accommodations. Traveling with a pack will be required. This course may be repeated once with a different skill set or in a different location. (1-5 lect.)

G&R 2033 – Rock Climbing. 1-5 credits (Max 6)

This is a base camp course that includes some backcountry travel, emphasizing leadership and teamwork. Outdoor skills learned in this course include map reading, navigation, hiking and low-impact camping. Climbing skills include belaying, knots, rope handling, signals, top-roping and rappelling, climbing ethics, protection placement, anchor building and climb leading. While this course will focus on outdoor skills, expedition behavior will be part of the course curriculum. Students will learn to live and work closely with their course mates. Tolerance for adversity and uncertainty, respect for others and the environment, and a willingness to work hard will be critical to success. Students should expect ongoing verbal coaching and feedback throughout the course, as well as verbal performance summaries at the end of each section. There will also be opportunities for interpreting and understanding the natural environment. This is a demanding and fast-paced course. This course may be repeated once with a different skill set or in a different location. (1-5 lect.)

G&R 2034 – Water Expedition. 1-5 credits (Max 6-10)

This is a small group travel-based course, emphasizing leadership and teamwork. Various offerings of this course include water sections emphasizing different skills, such as kayaking, canoeing, sailing or rafting. While this course will focus on outdoor skills, expedition behavior will be part of the course curriculum. Students will learn to live and work closely with their classmates. Tolerance for adversity and uncertainty, respect for others and the environment, and a willingness to work hard will be critical to success. Students should expect ongoing verbal coaching and feedback throughout the course, as well as verbal performance summaries at the end of each section. There will also be opportunities for interpreting and understanding the natural environment. This is a demanding and fast-paced course. This course may be repeated once with a different skill set or in a different location. (1-5 lect.)

G&R 2035 – River Rescue Certification. 1 credit

The River Rescue Certification course focuses specifically on rivers and rescue from a professional or recreational boater's point of view. Short lectures will be followed with immediate hands-on application in the water. This course is appropriate for aspiring whitewater guides and serious recreational river boaters. The course takes place over 2-3 days with case study homework in the evenings and meets all permitting agencies' river/swiftwater rescue certification requirements for river guides and kayakers. (Lect .5, Lab 1.)

G&R 2050 – Environmental Ethics & Management. 1-5 credits (T)

This course is offered in conjunction with the National Outdoor Leadership School (NOLS). This course involves immersion in the geography and culture of the area in which the course is held. Class work in physical and cultural geography will provide students with information that is easily integrated with the environmental ethics of land management and low impact camping. This course is part of the NOLS semester and must be taken concurrently with EDUC 2050 and BIOL 2045. On certain semesters it is also taken concurrently with HLED 2010. NOLS semesters are taught experientially, so climate, season, terrain, participants, specific course selection, and other factors generally support some outcomes more than others. (1-5 lect.)

G&R 2090 – Avalanche Level 2: Analyzing Snowpack & Avalanche Hazard. 2 credits (T)

The Avalanche Level 2 course provides backcountry leaders the opportunity to advance their avalanche knowledge and decision making skills. The Level 2 builds from the introductory avalanche hazard management model introduced in the Level 1 course, and adds the evaluation of factors critical to snow stability analysis. Students will spend a mix of their time in a classroom and outdoors in the snow. This course is taught in partnership with the American Institute for Avalanche Research and Education (AIARE) and successful students will receive a certificate of completion for the AIARE Level 2 Avalanche Training. Prerequisites: G&R 1090, Avalanche Level 1: Decision Making in Avalanche Terrain. (1 lect, 2 lab.)

GEOLOGY**GEOL 1020 – Geology of Wyoming. 1-2 credits (Max 4) (T)**

This course will examine the basic theories, concepts and assumptions used in geology, focusing on the incredible natural geologic laboratory of the state of Wyoming. Topics will vary with offerings and may include (but are not limited to) volcanoes, glaciers, fossils, gems, mineral and petroleum resources, mountain building, or the formation of the geology of specific areas. Field trips may be required. (1-2 lect.)

GEOL 1070 – The Earth: Its Physical Environment. 4 credits (E/SE)

This course is a broad introductory-level course in earth and space science covering topics from physical and historical geology, meteorology, oceanography, planetary astronomy and stellar astronomy. It illustrates fundamental concepts, processes, products and the relationships between them. The course emphasizes the nature of science and relationships between selected topics and society. This course serves elementary education majors (who should also enroll in EDCI 1450 concurrently or the next semester) as well as other non-science majors and general studies students. Students earning credit in GEOL 1070 may not also earn credit in ASTR 1070. This course cannot be used for LSCI credit toward a science major. Prerequisites: Completion of MATH 0900 or test into MATH 0920 or higher. (3 lect., 3 lab) **LSCI**

GEOL 1100 – Physical Geology. 4 credits (E/SE)

This course examines the modern concepts of Earth's physical makeup, the processes and forces acting on our planet, and the changes that occur with time. Specific course topics include: plate tectonics, planetary evolution and structure, geologic time, minerals and rocks, the rock cycle, earthquakes, volcanism, mountain building, the ocean floor, running water and groundwater. In addition, the topics of glaciers, deserts and shorelines, geologic hazards and economic resources may be included. Laboratory exercises will focus on mineral and rock identification, topographic maps and landscape formation. This course serves both majors and non-majors. A field trip is required. Prerequisites: Completion of MATH 0900 or test into MATH 0920 or higher. (3 lect., 3 lab) **LSCI**

GEOL 1200 – Historical Geology. 4 credits (E/SE)

This course presents the origin and history of Earth, as well as the evolution of its life, based on the rock and fossil record. The course also reviews the changing geography of Earth through geologic time, emphasizing climate change, the theory of plate tectonics and the evolution of North America. The connection between geologic and biologic evolution is emphasized. Laboratory exercises will focus on mineral, rock and fossil identification, structural block diagrams, stratigraphy, sedimentary rocks, and structures, and geologic time. This course serves both majors and non-majors. A field trip is required. Prerequisite: Completion of MATH 0900 or test into MATH 0920 or higher. (3 lect., 3 lab) **LSCI**

GEOL 1225 – Dinosaur Academy: CSI Jurassic. 2 credits

This course, using the "field as a classroom", will examine the process of scientific inquiry. Through the interdisciplinary study of paleontology students will be exposed to major concepts in evolutionary biology and geology during field excursions, quarry work, and classroom discussions. Specific course topics include: geologic time, mountain building, sediment transport, deposition and erosion, soil formation, carbonate formation, carbon/oxygen stable isotope geochemistry, taphonomy, archosaurian anatomy, ichnology, and evolution of life. In addition, the topics of bone histology, fossil preparation, survey techniques, topo maps and GPS will be studied. This course is designed to serve students interested in a career in science. (1 lect., 3 lab)

GEOL 1240 – Geology of the Yellowstone: Teton Region. 1 credit (Max 2)

This is a field-based course examining the geologic history of the Grand Teton and Yellowstone National Parks. Emphasis is placed on recent geologic history including volcanism, glaciation and mountain building processes. Several aspects of the ecology of the Greater Yellowstone Ecosystem are also included. Field trip-based course; special field trip fees will apply. (1 lect.)

COURSE DESCRIPTIONS

GEOL 1470 – Environmental Geology. 4 credits (E, T)

Environmental geology is the study of the interactions between humans and their surface or near-surface geologic environment: rocks, water, air, soil, life. Humans are impacted by Earth processes, and by their activities, have an impact on Earth. Using physical geologic principles (rocks, minerals and plate tectonics) as a foundation for the study of these environmental interactions, this course will explore issues relating to: natural hazards such as earthquakes, volcanoes, floods, and mass movement; natural resources including water, soil and energy; climate change; human population; pollution and environmental policies. Laboratory exercises will apply geologic principles to environmental problems. Field trip required. Prerequisite: MATH 0920 and ENGL 1010. (3 lect., 3 lab) *LSCI*

GEOL 2000 – Earth System Science. 4 credits (E/SE)

This course introduces the Earth system, including the solid Earth, hydrosphere, biosphere and atmosphere. Emphasis is on plate tectonics and rock associations, evolution of Earth, mineral chemistry, and geochemical cycles. Field trip required. Prerequisites: Completion of CHEM 1000 or CHEM 1020 or CHEM 1090 and GEOL 1100 or GEOL 1200. Credit in or concurrent enrollment in CHEM 1030 is highly recommended. (3 lect., 3 lab)

GEOL 2200 – Geologic Field Excursion. 1-3 credits (Max 5)

Field excursions will be taken to study the geology of specific areas such as the Black Hills, Central Colorado, Death Valley, Colorado Plateau, Hawaii, Central America, or others. Topics will include rock types, tectonics, geologic time, stratigraphy and surface processes. Participants must be in good physical condition and be willing to live in sometimes primitive conditions. Field excursions will include several miles of on-foot exploration. Separate field trip fees will apply. (Offered only when sufficient demand.) Prerequisite: Completion of GEOL 1100 recommended but not required. (1-3 lect.)

GERMAN- SEE LANGUAGES

HISTORY

HIST 1110 – Western Civilization I. 3 credits (E/CH)

Western Civilization I examines major world civilizations and their development from their beginnings to approximately 1500 A.D., with emphasis on Europe. It surveys significant political, social, economic, religious, and intellectual institutions of the Western world, from their origins in the ancient Near East through medieval society. The course is intended to provide an appreciation of the past as well as a frame of reference for contemporary life. (3 lect.) *HUM*

HIST 1120 – Western Civilization II. 3 credits (E)

Western Civilization II examines the development of major civilizations since 1500 A.D. with emphasis on Europe. It is a study of the institutional history designed to provide an understanding of current events within their historical setting. (3 lect.) *HUM*

HIST 1210 – U.S. History I. 3 credits (E)

HIST 1210 is study of the discovery and colonization of the U.S., the American Revolution, establishment of the Constitution, foreign affairs, westward expansion, sectionalism, the Civil War and reconstruction. It includes instruction in the history of Wyoming. (3 lect.)

HIST 1220 – U.S. History II. 3 credits (E)

HIST 1220 is a study of the emergence of the United States as a world power; including industrialization and urbanization, American imperialism, progressivism, world wars, New Deal and current problems. It includes instruction in the history of Wyoming. (3 lect.)

HIST 1250 – History of Wyoming. 3 credits (E)

HIST 1250 emphasizes the developments Wyoming has experienced before and after statehood in the context of the growth of the United States. It includes instruction in U.S. history. (3 lect.)

HIST 1270 – Indians of the Wind River. 3 credits

This course is a survey of the history of the Wind River Indian Reservation, home to the Eastern Shoshone and Northern Arapaho Tribal Nations. In addition to the historic development of the Wind River Reservation, this course will provide overviews of the traditional (pre-contact) cultures of both tribal groups and follow the significant historical and contemporary events that have led to the cultural changes here in the 21st century. A focus of this course will be toward a clearer understanding of the historical evolution of the relationships between the Eastern Shoshone, the Northern Arapaho, and the Euro-American cultures and how these diverse cultures have managed their social, political, and economic interactions over time. (3 lect.)

HIST 1290 – History of the U.S. West. 3 credits (E)

This course is an introductory survey of the American West. The course will cover developments in both the 19th and 20th centuries of the history of the American West. (3 lect.)

HIST 1300 – Crazy Horse, Custer & Two Worlds. 3 credits (T)

This course compares Euro-American and Plains Indian cultures by focusing on the surprising similarities and the differences in the lives of two renowned figures: the great Lakota Sioux leader, Crazy Horse, and Union Civil War hero, Bvt. General George A. Custer. This course examines the history and mythology of cultural conflict on the western plains during the late nineteenth century. This course examines the origins of that violent discord, historic attempts to find compromise, the experiences of participants and victims, and the impacts and ramifications of those years of bloodshed and turmoil. (3 lect)

HIST 1305 – Cowboys & Indians. 3 credits (T)

This course explores the origins of race and race relations through time and around the globe, with an emphasis on colonialism, and examines how these conceptions have been represented in popular culture. In other words, how do diverse peoples “get along” and how do they represent or interpret their relationships to explain or justify their actions? Particular attention is given to the catalytic roles played by hundreds of Northern Arapaho and Eastern Shoshone actors in the development of Hollywood’s western film industry, many of which will be viewed in class. (3 lect) *HUM*

HIST 1355 – Intro to Museum Studies. 3 credits (T)

This course examines the history of museums, archives, and collections, and the nature and variety of museum works in contemporary society. It looks at the development of American museums and their relationship to other exhibitionary forms including wild west shows and world’s fairs. The course introduces students to theoretical arguments about the nature and function of cultural representations and provides an introduction to museum organization; museological theory and philosophy; concepts of museum exhibition and interpretation. It discusses how collections and objects can be used as sources of meaning and information, and how museums and numerous other institutions can be used as educational resources. Course will include case studies and applied field experiences with CWC and regional museum and repository staffs and institutions. (3 lect.)

HIST 2010 – Mormon Migration. 3 credits (T)

This course is a historical overview of the Mormon Migration, beginning with an investigation of the origin of the church of Jesus Christ of Latter Day Saints. The course focuses on the exodus of believers from New York State and their movement through various frontiers to a final settlement in their Zion in Utah. (3 lect.)

HIST 2015 – South Pass & Wind River Basin. 3 credits (T)

This course is a historical overview of South Pass, the Sweetwater and Wind River Country. This course examines: the prehistoric and historic roles of the Great South Pass through the Rocky Mountains; its place in the development of the American nation during the great Migration; unique local race and women's rights issues; and the experiences, lives and historic roles of peoples who lived in the neighboring valleys of the Sweetwater and Wind River in shaping their own homes and the nation. (3 lect.)

HIST 2060 – Topics in History. 1- 3 credits (Max 6) (E)

This course focuses on special topics that fall outside the traditional chronological and geographical offerings in history. Specific content varies from semester to semester in accordance with faculty interest and student demand. (1-3 lect.)

HIST 2215 – Oregon Trail Field Experience. 3 credits (T)

This outdoor, experiential learning course is a living history reenactment of mid-1800s covered wagon train life on the western trails. This quintessential American experience consists of multiple days traveling and tent camping along the actual historic Oregon, California and Mormon Trails near South Pass. Students travel with saddle horses and covered wagons and/or handcarts to numerous nationally significant historic and archaeological sites, prepare maps and written records of their experiences, help with camp chores, attend lectures and participate in discussions of history, geography, political science and other disciplines. Learning how to travel as safely as possible with livestock and nineteenth century technology is a major emphasis of the course. This is a physically demanding field course, unless special arrangements are made all applicants should be in good physical health, able to walk long distances over rough terrain, carry heavy objects and sleep on the ground. All participants must have health insurance. Prerequisites: Completion of at least two of the following: HIST 1290, HIST 1210, HIST 1220, HIST 1250, HIST 1270, instructor-guided independent readings and instructor's permission. (3 lect.)

HIST 2225 – History of Christianity. 3 credits (E)

This course is a survey of Christianity from Jesus and Paul to today. Political, social, and theological issues are stressed. Christian history is studied through readings, lecture, video, and some internet resources. Special emphasis is given to events in Western Europe and the United States. Students earning credit for HIST 2225 may not earn credit in RELI 2225. (3 lect.) *HUM*

HIST 2250 – American Religious History to 1865. 3 credits

This course will trace the history of religion in the United States through the Civil War. Particular attention will be paid to the intertwining of religion and colonialism; the tension between emerging Protestant hegemony and religious pluralism; the roles religion has played in justifying oppression and pursuing liberty in American history; and the development of religious communities such as Mennonites and Mormons in the American West. (3 lect.)

HIST 2290 – History of U.S. Indians. 3 credits (E/CH)

The course examines major developments in Indian history since European contact. Concentration will be upon geographical groups, their migrations and relationships to the United States government. Students earning credit in HIST 2290 may not earn credit in AIST 2290. (3 lect.)

HIST 2315 – Equality State Gender & Ethnicity. 3 credits (T)

This course explores the racial, religious and cultural divides that have sometimes created chasms between diverse groups of Wyoming's inhabitants from prehistoric times to the present, and attempts to bridge those gaps. It dissects race relations between Caucasian, Native-, Asian-, Latin-, and African American groups including Wyoming's extraordinary lynching heritage. It assesses gender-based divides in this place known as "the birthplace of women's suffrage," as well as the crucial feminine role in opening South Pass and catalyzing the Great Migration of wagon trains across the continent. (3 lect.) *HUM*

HIST 2320 – History of Islam. 3 credits (E/CH/G)

This course will focus on the origins of Islam and its early formation, its growth and spread across the world, and its intellectual, spiritual and historical character. Time will also be spent on the formation of Islam in the modern world and how that impacts the views and actions of its members. Students earning credit in HIST 2320 may not earn credit in RELI 2320. (3 lect.) *HUM*

HOMELAND SECURITY**HSEC 1000 – Intro to Homeland Security. 3 credits**

This course is an introduction to homeland security, from an all hazards perspective. Students examine threats caused by natural and technological disasters as well as intentional threats of domestic and international terrorism, including weapons of mass destruction. Students review the roles and responsibilities of government agencies, non-government organizations and individual citizens in homeland security. (3 lect.)

HSEC 1001 – School Safety. 3 credits

Enhancing security and preparing for and responding to a range of disasters that may occur at an educational facility are the focus of this course. Natural disasters such as earthquakes and floods, technological and biological events, and events such as school shootings and acts of domestic and foreign terrorism are discussed. Students will examine the interaction between school officials, students, and first responders with responsibilities for the safety of schools and children. Risk and threat assessment, school safety planning, strategies for safer schools, and other skills necessary to coordinate and facilitate a school safety program in an educational facility are studied. (3 lect.)

HSEC 1002 – Terrorism & Counter Terrorism. 3 credits (T)

Students analyze the roots of terrorist activities throughout the world and discuss national, regional, and global effects of historical and recent terrorism. Global, regional and national effects of terrorism will be discussed. Students study emerging threats including: global activities, narco-terrorism, recruitment on the Internet, and genomic terroristic concepts. They progress from the analysis of terrorism to counterterrorism tactics, focusing on a global and worldwide response. This includes new concepts and innovations for the prevention and mitigation of terrorist attacks globally, regionally and nationally. (3 lect.)

HSEC 1003 – Homeland Security & First Responders. 3 credits

Examining the unique role of local first responders in the war against terrorism and in responding to natural and accidental disasters is the focus of this course. Students identify the common elements of disaster response and the roles of first responders in their respective fields regarding response and recovery to the incident(s). Course emphasis is on actions, procedures and policies “at the scene” of a disaster, be it natural, accidental, or man-made, where decisions are made using the Incident Command System. (3 lect.)

HSEC 1015 – Homeland Security & Critical Infrastructure Facilities. 3 credits (T)

This course examines the threats to critical infrastructure from an all-hazards perspective. The course focuses on reviewing and integrating existing programs with new initiatives to enhance safety and security at these facilities. Students examine preparation for premeditated acts of terrorism as well as a range of possible natural, technological, accidental and man-made disasters. The development of risk and threat assessments and safety plans and strategies are reviewed. Students will also investigate training, education, exercises, evaluations, and other tools necessary to coordinate and facilitate planning and assessment and implement new and improved measures with minimal cost and maximum effect. (3 lect.)

HSEC 2001 – Overview of Homeland Security Law. 3 credits

This course is an overview of laws, policy, strategy, organization, and plans for dealing with various natural, accidental and premeditated threats to homeland security. Students review the respective and relative roles and responsibilities of government agencies, non-government organizations and individual citizens for U.S. national security. In addition, homeland security planning is addressed, including strategic planning, the National Response Plan, the National Incident Management System, various planning scenarios, and other federal and state guidelines. Students discuss various policy and strategy issues, including balancing security and civil liberties and information sharing and protection. (3 lect.)

HSEC 2004 – Homeland Security & Law Enforcement. 3 credits(T)

This course is an introduction to terrorism using a criminological or criminal justice framework for studying terrorist groups and individuals, terrorist origins, goals, dynamics, ideologies, counter terrorism, and homeland security. Students examine the structure and dynamics of terrorism, terrorist weapons, strategies and tactics, how they evolve, the ways in which they operate, how terrorists obtain funding, their use of the media, and theories of counter terrorism. Students review definitions of terrorism, analyze specific concepts, and examine issues that arise when responding to terrorism or the threat of terrorism. (3 lect.)

HSEC 2005 – Politics & Terrorism. 3 credits

This course focuses on an historical overview of politics and terrorism. Fundamental questions of what is terrorism, who defines terrorism, who or what perpetrates terrorism, and what are the motives and intentions of terrorism and terrorists are addressed. Students develop an understanding of the vocabulary, concepts, and perceptions of domestic and international terrorism to help them effectively ask and answer these fundamental questions. Students will examine religious and political extremism from a historical and political perspective reviewing various key philosophies, as well as current ideologies and personalities. Students will also explore the realm of data and information available that attempts to understand the existence of such conflict. (3 lect.)

HSEC 2006 – Terrorism & Weapons of Mass Destruction. 3 credits

Weapons of mass destruction (WMD) such as chemical, biological, radiological, nuclear, and explosive weapons and the access to and proliferation of such weapons are the focus of this course. The vulnerability of the infrastructure and populace of the United States in the event of a threat or the use of such weapons is addressed and exploration of strategies to prevent, limit, detect, defend, and deter the use of these weapons as an act of terrorism or political violence is studied. Students will also assess the spread of weapons through black market resources and the problems relating to security and access to such weapons due to the breakup of the former Soviet Union. (3 lect.)

HSEC 2008 – Religion, Extremism & Violence. 3 credits

Students explore the basic tenets of the major religions and the history of violence within each religion. They compare and contrast the religions and identify areas with the most potential for misunderstanding and conflict. They examine the use of violence since 1800 as a means of extending a religious agenda and the implications of such violence in the 21st century. Students examine other extremist organizations which, although not religious organizations, exhibit a similar tendency to inspire some members to violence. Based on their examination of these religious and non-religious organizations, students formulate recommendations to reduce or redirect such violence into non-violent actions. (3 lect.)

HSEC 2015 – Rural Homeland Security Training in: .5-3 credits

This course offers training to law enforcement officers in Wyoming and other States. This course cannot be used as a general education requirement but can be used as a major requirement or program elective in the Criminal Justice and Homeland Security programs (A.A., A.S. AND A.A.S.). This course can be used as a general elective in other programs and appropriate. (.5-3 lect.)(Max 12)

Horsemanship- SEE EQUINE STUDIES

HOTEL RESTAURANT MANAGEMENT

HRM 1500 – Intro to the Hospitality Industry. 3 credits

This course lays the groundwork for a basic understanding of the lodging and food service industry by tracing the industry’s growth and development both nationally and internationally. A review of the organization of hotel and food and beverage operations, as well as focusing on industry opportunities and future trends are included. (3 lect.)

HRM 1501 – Lodging Management/Front Office Procedure. 3 credits

This course presents a systematic approach to lodging management and front office procedures by detailing the flow of business through a hotel, from the reservations process to check out and settlement. This course also examines the various elements of effective front office management, paying particular attention to the planning and evaluation of front office operations and to human resources management. Front office procedures and management are placed within the context of overall operation of a hotel. (3 lect.)

HRM 1505 – Sanitation, Health, & Safety in the Hospitality Industry. 3 credits

This course outlines the fundamentals of high quality sanitation practices for food service employees. The course focuses on practical guidance in safe food handling without neglecting scientific and sanitation principles. Emphasis is placed on the problem of food borne illnesses and how important sanitation is from an economic, legal, and moral point of view. (3 lect.)

HRM 1510 – Dining Room Management & Food Delivery Systems. 3 credits

This course is designed to focus the student on the basic principles and applications of food delivery systems. Emphasis is placed on customer service in hotels, restaurants of lodging, independent restaurants, and institutional operations. (2 lect., 2 lab)

HRM 1515 – Planning & Control for Food & Beverage Operations. 3 credits

Students enrolled in this course are taught the essential principles and procedures for effective food and beverage planning and cost control. Using the appropriate software to calculate food, beverage, and labor costs, students will develop an effective sales income control system. The basic principles of food production and service management, including menu planning, purchasing, and storage are addressed. (3 lect.)

HRM 2500 – Quantity Food Purchasing. 3 credits

This course concentrates on the development and implementation of an effective food purchasing program emphasizing the development of dependable supplier relations, negotiating techniques, and selecting and evaluating food purchasing. Students will develop purchase specifications to match menus and document each stage of the purchasing cycle. Online purchasing and procedures will be explored. (3 lect.)

HRM 2501 – Facilities Management. 3 credits

This course is designed to provide hospitality managers and students with information they need to know to manage the physical plant of a hotel or restaurant and work effectively with the engineering and maintenance departments. Special emphasis will be placed on environmental issues, modernization, building operating systems, and resource management. (3 lect.)

HRM 2506 – Sales & Marketing in the Hospitality Industry. 3 credits

This course is designed to provide students with basic knowledge and practical experience that will enable them to develop and implement strategic marketing plans for hospitality properties. It stresses the marketing orientation and philosophy that guides the design and delivery of guest services, and includes advertising, promotions, and practical sales techniques for selling to targeted audiences. (3 lect.)

HRM 2510 – Menu Planning & Analysis. 3 credits

Effective menu planning is crucial to the success of a restaurant operation. This course focuses on the importance of menu planning. Principles of developing a professional menu including analyzing marketing conditions, pricing, and availability of kitchen equipment are emphasized. (3 lect.)

HRM 2515 – Human Resource Management in the Hospitality Industry. 3 credits

This course is designed to present a systematic approach to human resource management related to the hospitality industry. Students will analyze contemporary issues and practices, as well as employment laws, staffing, hiring, termination, training and development, etc. (3 lect.)

HRM 2520 – Wines for the Culinary Professional. 1 credit

This is an introductory course describing the wine producing regions of the world. The influence of a region's soil, weather, grapes, vine species, chemistry, and biology to produce wine is explored. Wine quality standards, processing, storage, and service as related to wine regions and categories are studied. Students are taught the principles of compiling wine lists, serving wine in the proper wine glass, and recommending wine with food combinations. (1 lect.)

HRM 2525 – Wine Production, Service & Appreciation. 3 credits

This is an introductory course describing the wine producing regions of the world, the principles of compiling wine lists, and serving wine in the proper wine glass. The influence of a region's soil, weather, grapes, vine species, chemistry, and biology to produce wine is explored. Wine quality standards, processing, storage, and service as related to wine regions and categories are studied. The universe of wine is constantly evolving culmination of people, places, cultures, technology, tradition, and economics. The purpose of this course is to provide the student with the basic knowledge necessary to encourage and promote a lifelong interest in wine that will benefit both personally and professionally. The goal of this course is to provide the basic aspects of wine theory and analysis, while at the same time fostering and enhancing each individual's enthusiasm and understanding of wine. (3 lect.)

HRM 2530 – Beverage Management. 3 credits

This course is designed to provide students with the practical knowledge needed to manage a bar or beverage operation. Also it lays the groundwork for basic understanding of beverage service by explaining the beverage service process and focusing on such beverages as beer, spirits, and wine. Primary focus on beverage products, beverage and labor cost control, purchasing, inventory management, bar set-up, bar layout and design, production, service, and cash handling. (3 lect.)

HUMAN SERVICES**HMSV 1020 – Service Learning. 1 credit (Max 2)**

Students participate in community service projects that meet the needs of the community and are integrated into and enhance the academic curriculum of the students. As well as hands on participation, structured time is provided for reflection on the community service. (2 lab)

HMSV 1055 – People with Special Needs. 3 credits

An introduction to the systems, techniques, and adaptive procedures which effectively improve access to services, personal functioning, and social image for children and adults with special needs including mental, physical, and social impairments. Emphasis will be placed on the consumer's roles and interactions with institutions, family, and society. (3 lect.)

HMSV 1110 – Ethics for Helping Professions. 3 credits (T)

This course provides an introduction to the study of applied professional ethics. Issues concerning due process, least restrictive environment, right to treatment, dual relationships, client advocacy, value clarification and professional responsibility are discussed. Case studies will be analyzed with professional standards applied. (3 lect.)

COURSE DESCRIPTIONS

HMSV 1200 – Field Experience in Human Services I. 4 credits

This 99-hour supervised field experience is designed to give students the opportunity to integrate previous academic learning with hands-on practical experience in a human service setting. A weekly one-hour seminar, in addition to the agency hours worked, is required. (4 lect.) **CLPE**

HMSV 1500 – Issues Related to Dying & Death. 1 credit (T)

This class will explore the multiple issues surrounding dying, including preparation for death by the individual, family, caretakers, and the community. The class will also explore the struggle to balance medical interventions with the quality of life. (1 lect.)

HMSV 2000 – Human Services Administration. 3 credits (T)

This course provides students with an understanding of human services agencies including organizational types, inter-organization relationships, and administrative structures and functions. Agency role and function is understood in the context of the services provided, clients served, and program goals. Special attention is given to the function of supervision and the role of middle management personnel in the design and delivery of services to clients. (3 lect.)

HMSV 2110 – Field Experience in Human Services II. 4 credits(T)

This second level 99-hour supervised field experience is designed to give students the opportunity to integrate previous academic learning with hands-on practical experience in a human service setting. When possible, agency placement will be related to each student's program concentration. A weekly one-hour seminar, in addition to the agency hours worked, is required. Prerequisites: Completion of HMSV 1200. (1 seminar, 9 practicum)

HMSV 2120 – Field Experience in Human Services III. 4 credits (T)

This third level 99-hour supervised field experience is designed to give students the opportunity to integrate previous academic learning with hands-on practical experience in a human service setting. When possible, agency placement will be related to each student's program concentration. A weekly one-hour seminar, in addition to the agency hours worked, is required. Prerequisite: Completion of HMSV 2110. (1 seminar, 9 practicum)

HMSV 2130 – Understanding the Addiction Process. 3 credits

In this course the student will examine the concepts of chemical use, abuse and addiction from several perspectives. The student will learn assessment techniques and types of treatment plans. Counseling techniques for working with the chemically dependent will be discussed. (3 lect.)

HUMANITIES

HUMN 1070 – Class Stratification in the United States. 3 credit

This course surveys the diversity of social/economic class stratification in the United States. Historical development and contemporary issues will be addressed in the contexts of race, culture, gender, and political power. A primary focus will be on how social class impacts the individual's power. A primary focus will be on how social class impacts the individual's personal development of values, attitudes, and behaviors within and between class hierarchies. The important role of social class traditions and their complex interdependence as a primary institutional force within the dominant United States culture will be examined in a format that requires the student to place themselves within this structure and to focus their analyses on the identification of specific strategies that will strengthen and enhance their ability to successfully navigate through this system. (3 lect.)

HUMN 2025 – Humanities Through the Arts. 3 credits (T)

This course surveys theatre, music, literature, painting, sculpture, and architecture. Each art form is examined from four perspectives: historical context, elements of the art, form/meaning, and criticism/evaluation. Arts from selected world cultures will be explored in order to give a global awareness to human creativity. (3 lect.) **HUM**

HUMN 2380 – Popular Culture. 3 credits (T)

This course is a study of film, music, print and broadcast media, and other forms of popular cultural expression. The course emphasizes popular arts of the last two centuries, especially in the United States. Students will discuss the distinctions between popular and elite arts and explore rationales and critical bases for the study of popular culture. Prerequisite: Completion of ENGL 1010. (3 lect.)

HUMN 2430 – World Religions. 3 credits (T)

This course is an investigation of universal spiritual questions and the ways world religions suggest answers. Themes include the purpose of creation and human life, ritual encounters with the sacred, death and the afterlife. Current questions and movements will be considered. Students will have the opportunity to discuss a variety of spiritual practices in an objective context. (3 lect.) **HUM**

INSTRUCTIONAL TECHNOLOGY

ITEC 2100 – Basic Classroom Technical Training: Operating Systems. 1 credit

This course provides an overview of the Windows operating system enabling the participant to confidently use a variety of applications and programs on their computer for everyday classroom use. Participants taking this course will become competent users of Windows operating system, being able to create, save and locate documents such as lesson plans and reports. Different applications will be integrated to produce professional documents. Participants will be able to keep and manage pertinent classroom information and curriculum on their computer, decreasing preparation time and increasing teaching effectiveness. Prerequisite: Keyboarding skills and/or COSC 1200 is desired. (1 lect.)

ITEC 2101 – Basic Classroom Technical Training: Word Processing. 1 credit

This course provides word processing instruction on microcomputers. The students receive instruction in keyboarding techniques, editing, storage, retrieval, and other aspects of information processing. Basic language skills (including spelling, grammar, punctuation, and proofreading) are reinforced. Prerequisite: Computer experience (basic knowledge of computer hardware, disk management). Familiarity with Windows operating system is helpful. (1 lect.)

ITEC 2102 – Basic Classroom Technical Training: Spreadsheet. 1 credit

This course involves spreadsheet instruction on microcomputers. The students receive instruction in creating, editing, saving, and other aspects of data manipulation in spreadsheets. Prerequisite: Familiarity with Windows operating system is helpful. (1 lect.)

ITEC 2103 – Basic Classroom Technical Training:**Database. 1 credit**

Database management software, such as Microsoft Access, offers an organized approach for storing and retrieving all types of data. This course provides an overview for developing databases and is designed to help students integrate Access into their curriculum. Teachers can use Access to keep track of information on students (i.e. grades) and teachers will also be able to instruct their K-12 students on how to create and manipulate data in many formats and situations. Teachers will receive instruction in creating, editing, saving, and other aspects of data manipulation in datasheets. Prerequisite: Familiarity with Windows operating system is helpful. (1 lect.)

ITEC 2104 – Basic Classroom Technical Training:**Web Pages. 1 credit**

This is an introductory course using basic techniques in developing Web Page sites for the internet or intranet. Students will learn how to create web pages, different links, templates, new pages, import and export web pages, etc. Prerequisite: Computer experience (basic knowledge of computer hardware, disk management). Familiarity with Windows operating system is helpful. (1 lect.)

ITEC 2105 – Intermediate Classroom Technical Training:**Operating Systems. 1 credit**

This course is a continuation of ITEC 2100- Basic Classroom Technical Training Operating Systems. It will provide an in-depth look at the Windows operating system enabling participants to use a variety of applications, programs, and utilities on their computer for everyday classroom use. Participants taking this course will become competent users of Windows, being able to maintain, manage, and configure the operating system environment. Prerequisite: Computer experience (basic knowledge of computer hardware, disk management). This is not an entry-level computer course. (1 lect.)

ITEC 2106 – Intermediate Classroom Technical Training:**Word Processing. 1 credit**

This course involves an intensive study in the use and application of word processing software. Students will receive instruction in formatting and revision; creation of tables, columns, and templates; and use of graphics, styles, and mail merge features. Prerequisite: Computer experience (basic knowledge of computer hardware, disk management). This is not an entry-level computer course. (1 lect.)

ITEC 2107 – Intermediate Classroom Technical Training:**Spreadsheets. 1 credit**

This course involves an intensive study in the use and applications of spreadsheet software. Students will receive instruction in the use of formulas and functions, templates, charts, and what-if analysis. Prerequisite: Completion of CMAP 2102 or instructor's permission. (1 lect.)

ITEC 2108 – Intermediate Classroom Technical Training:**Database. 1 credit**

This course instructs students in the use of database programs on microcomputers. Business applications are included to prepare students to use database software in the business world. The topics covered include memory variables, report generation, labels, menus, and command files. Prerequisite: Computer experience (basic knowledge of computer hardware, disk management). This is not an entry-level computer course. (1 lect.)

ITEC 2109 – Intermediate Classroom Technical Training:**Web Pages. 1 credit**

This course is a continuation of ITEC 2104. Students will learn how to improve Web Pages by learning to use design, technology, customizing a Web Page, and by incorporating the following: graphics animation, hot spots, tables, lists inserting videos, etc. into web pages. Prerequisite: Completion of ITEC 2104. (1 lect.)

ITEC 2110 – Intermediate Classroom Technical Training:**Multimedia. 1 credit**

Microsoft PowerPoint is a dynamic and exciting graphics presentation program. In this course, we will explore many of this program's basic and advanced features. The course is designed to help students produce high-quality, effective presentations that are interesting to the audience. The student will explore the PowerPoint environment and learn to create and edit presentations including on-screen electronic slide shows, outlines, and supporting notes for the speaker and audience. Prerequisite: Keyboarding skills and/or COSC 1200. (1 lect.)

ITEC 2111 – Elementary School Encyclopedia Software.**1 credit (Max 6)**

This course will provide a foundation of knowledge, understanding, and practical applications in the use of the electronic encyclopedia. (1 lect.)

ITEC 2112 – Elementary School Science Software. 1 credit (Max 6)

This course provides an electronic field trip experience of a rain forest through the use of the Magic School Bus adventure series, "The Rain Forest." (1 lect.)

ITEC 2210 – Integrating Technology. 1-3 credits (Max 9) (T)

The purpose of this course is to provide the knowledge and skills necessary to utilize up-to-date media tools in the classroom and other educational venues. Each student will be required to design and create a curriculum project that utilizes software and electronic tools. Specific instructional tools taught in this class are considered current or cutting edge technology and are expected to change as technology advances. Prerequisite: Students should have the appropriate computer skills for the desired class. (1-3 lect.)

ITEC 2360 – Teaching with Technology. 3 credits (E)

This class will equip students with the information, skills, and insights necessary for successful integration of computer-based technologies in classroom teaching. Through hands-on experience with word processing, desk-top publishing, database, spreadsheet, specialized course-specific software, Internet, multi-media, and distance education technology, students will become knowledgeable about computer assisted instruction. (3 lect.)

INTERNATIONAL STUDIES**INST 2000 – Intro to International Business. 3 credits (E)**

In order to remain competitive in today's market, all businesses must recognize and understand the international forces in the business environment. Firms must recognize and analyze these international forces to remain competitive. This course will be a broad survey of international business - with emphases placed on basic concepts of international trade activity, global economic and financial environment, international environmental forces, and strategic management for the global environment. Students will also develop cultural awareness and appreciation. (3 lect.)

JAPANESE- See: Languages

KINESIOLOGY

KIN 1005 – Intro to Kinesiology & Health. 2 credits (E/I/L)

This course provides a general concept of the meaning and interpretation of kinesiology, giving specific information for the professional student of kinesiology and the nature of the field, its professional opportunities, personal rewards and satisfactions, and requirements of a sound program of professional preparation. (2 lect.)

KIN 1020 – Taping & Wrapping Sports Injuries. 1 credit (T)

The purpose of this course is to provide instruction in principles and techniques for application of protective taping, padding, wrapping, and bracing with emphasis on the prevention of sport and exercise injuries. (3 lab)

KIN 1030 – Advanced Taping & Wrapping Sports Injuries. 2 credit (E)

The purpose of this course is to provide instruction in advanced principles and techniques for application of protective taping, padding, bracing and equipment fitting with emphasis on the prevention of sport and exercise injuries. Prerequisite: Successful completion of KIN 1020. (1 lect., 3 lab)

KIN 1052 – Intro to Athletic Training. 3 credits (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. Course will provide the student with an introduction into the profession of athletic training and the proficiencies and competencies necessary for the entry-level certified athletic trainer. (3 lect.)

KIN 1055 – Athletic Training Experience. 2 credits (T)

This course is designed to provide clinical experience in a training room for students interested in sports-related injury care and prevention. Experiences will include prevention, recognition, treatment and rehabilitation of sports injuries. (1 lect., 2 lab)

KIN 1058 – Emergency Management of Athletic Injuries/Illness. 3 credits (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. (3 lect.)

KIN 2057 – Assessment & Evaluation of Athletic Injuries I. 3 credits (E)

The purpose of this course is to provide the prospective athletic trainer with the knowledge and skill necessary to evaluate and recognize upper extremity, cervical spine, and head injuries that occur to the athlete and the physically active. Prerequisites: Completion of KIN-1052 and concurrent enrollment in KIN-2068. (2 lect., 2 lab)

KIN 2058 – Assessment & Evaluation of Athletic Injuries II. 3 credits (E)

The purpose of this course is to provide the prospective athletic trainer with the knowledge and skill necessary to evaluate and recognize lower extremity and spine injuries that occur to the athlete and the physically active. Prerequisites: Completion of KIN-1052 and concurrent enrollment in KIN-2078. (2 lect., 2 lab)

KIN 2068 – Athletic Training Clinical I. 1 credit (E)

The purpose of this course is to provide clinical and field experiences for the athletic training student. It will combine class work with athletic training room clinical and field experiences. The student must complete a minimum of 180 clock hours of clinical and field experience. Prerequisite: Completion of KIN 1052 and 1058 plus concurrent enrollment in KIN 2057. (2 lab, 180 clock hours)

KIN 2078 – Athletic Training Clinical II. 1 credit (E)

The purpose of this course is to provide clinical and field experiences for the athletic training student. It will combine class work with athletic training room clinical and field experiences. The student must complete a minimum of 180 clock hours of clinical and field experience. Prerequisite: Completion of KIN 1052, 1058, 2057 and 2068 plus concurrent enrollment in KIN 2058. (2 lab, 180 clock hours) *CLPE*

LANGUAGES

Languages are offered only upon sufficient demand, pending availability of qualified instructors.

Arapaho

ARAP 1010 – Arapaho I. 4 credits (T)

This introductory Arapaho language course is designed to acquaint students with the basic sounds that make up the Arapaho language. The Arapaho alphabet will be learned and used as a basis for study. Literacy in Arapaho using the "Salzmann system" will enable students to progress at their own rate. (4 lect.)

ARAP 1020 – Arapaho II. 4 credits (T)

The content of the course will center on how the basic sounds of the Arapaho language are put together to form Arapaho words, along with a study of the meaning of words learned. A study of how words are strung together to make up meaningful phrases or sentences and how the phrases and sentences are put together to form an appropriate conversation or to tell a short story. Prerequisite: Completion of ARAP 1010. Arapaho language speakers may talk with the instructor if they wish to enter the class without meeting the prerequisite. (4 lect.)

ARAP 2030 – Arapaho III. 4 credits (T)

This is a continuation of ARAP 1020, providing a more thorough approach to complete conversations, culture and protocol. Prerequisite: Completion of ARAP 1020. Arapaho language speakers may talk with the instructor if they wish to enter the class without meeting the prerequisite. (4 lect.)

ARAP 2040 – Arapaho IV. 4 credits (T)

This course includes the study of all written materials preserved by the Arapaho Culture Commission. Reading, translating and interpretation of stories and legends will be assigned. Written Arapaho stories require thorough understanding, accomplished only through study, to maintain oral tradition for modern times. Prerequisite: Completion of ARAP 2030. Arapaho language speakers may talk with the instructor if they wish to enter the class without meeting the prerequisite. (4 lect.)

Chinese**CHIN 1010 – First Year Chinese I. 4 credits (E)**

This is an introductory course in Mandarin Chinese (Putonghua), designed for students who have had no prior exposure to Chinese language. The emphasis in this class is to develop listening, speaking, reading and writing skills using both Pinyin phonetic system and Simplified Chinese characters. Approximately 350 words will be taught through essential real-life topics, which also introduce the social and cultural background of the language. (4 lect.)

CHIN 1020 – First Year Chinese II. 4 credits (E)

This course is a continuation of Modern Standard Chinese (Putonghua). Further development of speaking, listening, reading, and writing skills are emphasized. The aim is to enable the student to communicate in Chinese for everyday purposes and to lay a solid foundation for further study of the language. The varied aspects of Chinese culture will also be introduced. Prerequisite: Completion of CHIN 1010. (4 lect.)

French**FREN 1010 – First Year French I. 4 credits (E)**

The fundamental skills of the language are studied through a grammatical and conversational approach. Emphasis is placed on developing speaking, listening, writing and reading skills. It is primarily for those with no previous language experience. (4 lect.)

FREN 1020 – First Year French II. 4 credits (E)

This course offers continued study of the basic FREN 1010 skills with additional emphasis on writing, speaking and reading. Prerequisite: Completion of FREN 1010 or two years of high school French equivalent. (4 lect.)

FREN 2030 – Second Year French I. 4 credits (E)

Reading from novels, short stories, and other sources; review of grammar principles and speaking skills are the focus of FREN 2030. Prerequisite: Completion of FREN 1020 or three years of high school French or equivalent. (4 lect.)

FREN 2140 – Intro to Reading. 3 credits (E/CH/G)

This course introduces the literature of French authors. Analysis of literary types and concepts is studied. Emphasis is on reading, speaking and writing skills. Prerequisite: Completion of FREN 2030 or three years of high school French or equivalent. (3 lect.)

German**GERM 1010 – First Year German I. 4 credits (E)**

The fundamental skills of the language are studied through a conversational approach. Emphasis is placed on developing speaking, listening, writing and reading skills. It is primarily for those with no previous language experience. (4 lect.)

GERM 1020 – First Year German II. 4 credits (E)

This course provides continued study of the basic language skills with additional emphasis on writing and reading. Prerequisite: Completion of GERM 1010 or two years of German in high school or equivalent. (4 lect.)

GERM 2030 – Second Year German I. 4 credits (E)

There are readings from novels, short stories, and other sources in this course, as well as a review of grammar principles and speaking skills. Prerequisite: Completion of GERM 1020 or three years of high school German or equivalent. (4 lect.)

GERM 2140 – Intro to Reading. 3 credits (E/CH/G)

This course is an introduction to the literature of Germany. Analysis of literary types and concepts is studied. Prerequisite: Completion of GERM 2030 or three years of high school German. (3 lect.)

Japanese**JAPN 1010 – First Year Japanese I. 4 credits (E)**

This is an introductory course in Japanese, designed for students who have had little or no prior exposure to the Japanese language. The emphasis in this class is to develop listening, speaking, reading and writing skills using katakana, hiragana (Japanese syllabary), and kanji (Chinese characters). The course will also introduce students to the social and cultural dimensions of the Japanese language. (4 lect.)

Shoshone**SHOS 1010 – Shoshone Language I. 4 credits (T)**

This is an introductory course in which students learn the linguistic and phonetic system of speaking and writing the Shoshone al-phabet, sounds and cultural understanding of the Wind River Shoshones will be the primary emphasis. (4 lect.)

SHOS 1020 – Shoshone Language II. 4 credits (T)

This course builds on the phonics and pronunciation skills of Shoshone Language I. Emphasis is on conversation and writing. History, stories and legends of the Wind River Shoshones is used to teach the language. The class uses the Total Physical Response (TPR) method of language learning. Prerequisite: Completion of SHOS 1010. (4 lect.)

SHOS 2030 – Shoshone Language III. 4 credits (T)

This is a continuation of Shoshone Language II. Emphasis is on conversation and writing using both linguistic and phonetic skills. History, stories and legends of the Wind River Shoshones is used to teach the language. Students at this level will converse with Shoshone elders and peers, as well as read and write Shoshone. Prerequisite: Completion of SHOS 1020. (4 lect.)

SHOS 2040 – Shoshone Language IV. 4 credits (T)

This is a continuation of Shoshone Language III. Students at this level focus on becoming Shoshone language teachers. Prerequisite: Completion of SHOS 2030. (4 lect.)

Spanish**SPAN 1000 – Spanish for Safety Supervisors. 2 credit (T)**

This course is an introduction to Spanish specifically designed for supervisors and other employees who may work with Spanish-speaking personnel. The course covers basic instruction in both spoken and written Spanish and offers students the foundation required to communicate with Spanish-speaking co-workers. Course content will include the phrases and vocabulary required to communicate in a workplace environment. (1 lect., 2 lab.)

COURSE DESCRIPTIONS

SPAN 1010 – First Year Spanish I. 4 credits (E)

The fundamental skills of the language are studied through grammatical and conversational approach. Emphasis is placed on developing speaking, listening, writing and reading skills. It is primarily for those with no previous language experience. (4 lect.)

SPAN 1020 – First Year Spanish II. 4 credits (E)

This course is a continued study of the basic language skills with additional emphasis on writing, speaking and reading. Prerequisite: Completion of SPAN 1010 or two years of high school Spanish or equivalent. (4 lect.)

SPAN 2030 – Second Year Spanish I. 4 credits (E)

There are readings from novels, short stories, and other sources, as well as a review of grammar principles and speaking skills in this course. Prerequisite: Completion of SPAN 1020 or two years of high school Spanish or equivalent. (4 lect.)

SPAN 2140 – Intro to Reading. 3 credits (E/CH/G)

This course introduces the literature of Spanish authors. Analysis of literary types and concepts is studied. Emphasis is on reading, speaking and writing skills. Prerequisite: Completion of SPAN 2030 or three years of high school Spanish. (3 lect.)

Speech-Language Pathology

SPPA 2110 (CO/M 1200) – Beginning Sign Language. 4 credits (E)

This course examines basic principles of American Sign Language (ASL) including accurate sign production and nonverbal techniques. Vocabulary of 1500 basic signs and the ability to functionally communicate in ASL will be attained by semester end. Prerequisites: ENGL 1010 or consent of instructor. (4 lect.)

SPPA 2120 (CO/M 1220) – Intermediate Sign Language. 4 credits (E)

This course is a continuation of Beginning Sign Language and emphasizes receptive and expressive fluency and understanding of American Sign Language (ASL). ASL vocabulary, grammar and pragmatics are emphasized, and translation from English to ASL is discussed. Prerequisites: SPPA 2110. (4 lect.)

LIBRARY SCIENCE

LIBS 2280 – Literature for Children. 3 credits (E/CH)

Wide reading and discussion of the literature for children is emphasized. Books that have won recognition as distinguished contributions to American literature for children are examined. The selection of books for school, home and public library is considered. Besides becoming acquainted with a wide sampling children's literature, students also establish criteria for evaluation. Prerequisite: Completion of ENGL 1010 (3 lect.) *HUM*

MANUFACTURING

QSMF 1550 – Certified Manufacturing Specialist. 12 credits

This course prepares students for the manufacturing industry. Students will learn the following components involved in manufacturing: manufacturing process, workforce skills required in the manufacturing industry, quality control and problem solving techniques and how automated manufacturing and representative manufacturing skills are interrelated to provide efficient, high quality output and continuous improvement. Students earning credit in QSMF 1550 may not earn credit in QSMF 1551, QSMF 1552 and QSMF 1553. (12 lect.)

QSMF 1551 – Manufacturing: Organization & Workplace Skills.

3 credits

This course is designed to provide students with an overview of the functional and structural composition of manufacturing organizations. Students will learn personal and interpersonal effectiveness skills required to succeed in the manufacturing environment. (3 lect.)

QSMF 1552 – Manufacturing: Production Requirements & Automated Manufacturing Skills. 4 credits

This course is designed to provide students with knowledge and skills associated with quality and productivity in the manufacturing environment. Students are introduced to computerized process control and operational requirements associated with automated machines. (4 lect.)

QSMF 1553 – Manufacturing: Representative Skills. 5 credits

This course is designed to introduce students to representative manufacturing skills which include the following: safety skills, plant safety, materials movement, precision measurement and blue print reading. (5 lect.)

MATHEMATICS

MATH 0900 (MATH 0500) – Pre-Algebra. 4 credits

This is an arithmetic course designed for the student with little or no mathematical background. Topics covered include whole numbers, fractions, decimals, ratio and proportion, percent, signed numbers and metric measure. Applications are applied throughout. Prerequisite: Test into MATH 0900 or higher. (4 lect.)

MATH 0920 (MATH 0600) – Elementary Algebra. 4 credits

This course is for students who have not taken a full year of algebra in high school or who need to review basic algebra. Topics covered include operations involving integers and rational numbers, functions and relations, polynomials and word applications, and solving linear equations and linear inequalities algebraically, graphically, and numerically. Prerequisite: Completion of MATH 0900 or appropriate score on math placement test. (4 lect.)

MATH 0930 (MATH 0700) – Intermediate Algebra. 3 credits

This course prepares students for MATH 1400 or MATH 1450. Topics covered include operations involving polynomials and rational expressions, special products and factoring, solving equations and inequalities, exponents, radicals, systems of linear equations, graphing, and word problems. Prerequisite: Completion of MATH 0920 or test into MATH 0930 or higher. (3 lect.)

MATH 1000 – Problem Solving. 3 credits (E/QA)

This is a course for students not planning to enroll in MATH 1400. The course focuses on methods, processes, and strategies used to analyze, understand and solve mathematical problems. It examines modern topics chosen for their applicability and accessibility. Problems included involve puzzles, patterns, probability, geometry, and statistics. Prerequisite: Completion of MATH 0920 or test into MATH 1000 or higher. (3 lect.) *MATH*

MATH 1001 – Math Workshop I. 2 credits

This workshop must be taken in conjunction with MATH 1000 and is not a standalone course. Its purpose is to provide the necessary algebra skills required to be successful in MATH 1000, Problem Solving. Topics covered include operations involving integers and rational numbers, polynomials and work applications, and solving linear equations and inequalities algebraically, graphically, and numerically. Prerequisites: Completion of MATH 0900 or test into MATH 0920 or higher. (2 lect.)

MATH 1100 – Mathematics for Elementary School Teachers I. **3 credits (E/QA)**
 Designed primarily for prospective elementary teachers, this course presents a fairly rigorous treatment of the basic operations of arithmetic using an axiomatic approach. Prerequisite: Completion of MATH 0930 or test into MATH 1400 or higher. (3 lect.) **MATH**

MATH 1105 – Mathematics for Elementary School Teachers II. **3 credits (E/QB)**
 This course is designed for prospective elementary teachers. Major topics will include data analysis and geometry. Students will investigate how to collect, interpret, and display data, and examine properties, measurements, constructions, and transformations of two- and three-dimensional shapes. Prerequisite: Completion of MATH 1100. (3 lect.)

MATH 1400 – College Algebra. **4 credits (E/QA)**
 This course emphasizes aspects of algebra that are important in the study of calculus. Functions and their inverses are evaluated and analyzed graphically, numerically, and algebraically. Factoring and applying exponential and logarithmic properties to simplify and condense expressions and to solve equations are routinely applied. Graphing calculators are required both in class and with homework assignment. Students earning credit in MATH 1400 may not earn credit in MATH 1450. Prerequisite: Completion of MATH 0930 or test into MATH 1400 or higher. (4 lect.) **MATH**

MATH 1405 – Trigonometry. **3 credits (E/QA)**
 Topics in this course include the trigonometric functions, numerical trigonometry, and trigonometric analysis. Other topics such as complex numbers, theory of equations, vectors and dot products will be covered if time allows. Students earning credit in MATH 1405 may not earn credit in MATH 1450. Prerequisite: Completion of MATH 1400 or test into MATH 1405 or higher. (3 lect.)

MATH 1450 – Algebra & Trigonometry. **5 credits (E/QA)**
 This course combines the content in MATH 1400 and MATH 1405. It emphasizes aspects of algebra and trigonometry which are important in the study of calculus as well as functions and their applications to real world problems. Topics include polynomial, exponential, logarithmic and trigonometric functions and their inverses. Functions are evaluated and analyzed graphically, numerically, and algebraically. Graphing calculators are required both in class and with homework assignments. Students earning credit in MATH 1450 may not earn credit in MATH 1400 or 1405. Prerequisite: Completion of MATH 0930 or test into MATH 1400 or higher. (5 lect.) **MATH**

MATH 1500 – Applied Math. **3 credits**
 This course is designed to develop the student's ability to solve mathematical problems related to technology careers such as automotive, construction trades, plumbing, machining, electrical systems, etc. Major topics include the use of whole numbers, fractions, decimal calculation, positive and negative numbers, exponents, metric system, algebra, equations, formulas, geometry, and trigonometry. A calculator or other electronic devices related to the appropriate technology career will be used to solve mathematical problems. Prerequisite: Completion of MATH 0900 or test into MATH 0920 or higher. (3 lect.) **APPM**

MATH 2200 – Calculus I. **5 credits (E/QB)**
 An introduction to analytic geometry, limits, continuity, the derivative, differentiation of algebraic functions and applications, and integration and applications. Students earning credit in MATH 2200 may not earn credit in MATH 2350. Offered only in the fall. Prerequisite: Completion of MATH 1405, MATH 1450, or test into MATH 1405 or higher. (5 lect.) **MATH**

MATH 2205 – Calculus II. **5 credits (E)**
 Topics include differentiation of transcendental functions, parametric equations, polar coordinates, solid analytic geometry, vectors, formal integration and applications of integration. Offered only in the spring. Prerequisite: Completion of MATH 2200. (5 lect.)

MATH 2210 – Calculus III. **5 credits (E)**
 Topics include infinite series, partial differentiation, multiple integration, matrices and elementary differential equations. Prerequisite: Completion of MATH 2205. (5 lect.)

MATH 2310 – Applied Differential Equations. **3 credits (TE)**
 This course provides an introduction to the analysis of ordinary differential equations. It includes the solution of ordinary differential equations and integral transforms. The construction of mathematical models arising in the physical sciences and other areas is emphasized. Prerequisite: Completion of MATH 2205. (3 lect.)

MATH 2350 – Business Calculus. **4 credits (E/QB)**
 The first in a two-course sequence in calculus for students in accounting and business. Topics include review of functions, limits, continuity, the derivative with application, the integral with applications and progressions. Students earning credit in MATH 2350 may not earn credit in MATH 2200 toward graduation. Prerequisite: Completion of MATH 1400, MATH 1450, or test into MATH 2350 or higher. (4 lect.)

MATH 2355 – Mathematical Applications (for Business). **4 credits (E)**
 This is a continuation of MATH 2350 Business Calculus. Topics include business and economic applications of mathematics, linear equations, programming, finance, probability and statistics. Prerequisite: Completion of MATH 2200 or MATH 2350. (4 lect.)

STATISTICS

STAT 2050 – Fundamentals of Statistics. **4 credits (E/QB)**
 An introductory course to help the student use statistical methods with understanding. Topics include: descriptive statistics (organizing and describing data) designs for producing data, and statistical inference (drawing conclusions from data). Statistical software is used, therefore, computer literacy is recommended. Students earning credit in STAT 2050 may not earn credit in STAT 2070. Prerequisite: Completion of MATH 1000, MATH 1400, MATH 1450, or test into MATH 1405 or higher. (4 lect.)

STAT 2070 – Introductory Statistics for the Social Sciences. **4 credits (E/QB)**
 The goal of this course is to present the central ideas of descriptive statistics and statistical inference as applied to questions in the social sciences. Topics include graphs, averages, sampling, estimation, hypothesis-testing, and relationships between variables. Associated computer skills will also be introduced. Students earning credit in STAT 2070 may not earn credit in STAT 2050. Prerequisite: Completion of MATH 1000 or MATH 1400, MATH 1450, or test into MATH 1405 or higher. (4 lect.)

MICROBIOLOGY

MOLB 2210 – General Microbiology. 4 credits (E)

This is a foundation course with emphasis on structure, function, development, physiology, classification, identification, and economic importance of microorganisms. Prerequisites: Completion of MATH 0920 or test into MATH 1000; completion of BIOL 1010; and completion of ENGL 1010. (3 lect., 3 lab)

MICROSOFT

Students enrolled in Microsoft, Cisco, Linux and CompTIA certification courses (whether for credit or as an audit) must take the certification test at the time scheduled by the instructor. Students who fail the certification test the first time have the responsibility to reschedule and pay for any retest. Students who withdraw from a Microsoft, Cisco or CompTIA course forfeit the right to take the certification test with the class and must schedule and pay for the test themselves.

MSFT 22272 – Implementing & Supporting Microsoft: 4 credits

The purpose of this course is to address the implementation and desktop support needs of customers that are planning to deploy and support Microsoft Windows® current operating system in a variety of standalone and network operating system environments. The course is design to prepare students to take the current Microsoft Certification Exam. Students are responsible for scheduling and paying for the certification exam. Prerequisites: Recommend student has completed CMAP 1920 and CSC0 2000 or computer hardware and networking experience. (4 lect.)

MSFT 22275 – Managing & Maintaining a Microsoft Windows Server 2003 Environment. 5 credits

This course is intended for systems administrator and system engineer candidates who are responsible for managing and maintaining servers running the Windows 2003 operating system. These tasks include managing user, computer, and group accounts; managing access to network resources; managing printers; managing an organizational unit in a network based on Active Directory directory service; and implementing Group Policy to manage users and computers. This course also provides students with the knowledge and skills that are needed to effectively maintain server resources, monitor server performance, and safeguard data on a computer running one of the operating systems in the Microsoft Windows Server 2003 family. Prerequisite: Completion of MSFT 22272 or instructor's permission. (5 lect.)

MSFT 22277 – Implementing, Managing, & Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services. 4 credits

This course is intended for systems administrator and systems engineer candidates who are responsible for implementing and managing server network technologies. These tasks include implementing routing; implementing and managing Dynamic Host Configuration Protocol (DHCP), Domain Name Server (DNS), and Windows Internet Name Service (WINS); securing Internet Protocol (IP) traffic with Internet Protocol Security (IPSec) and certificates; configuring a network access infrastructure by configuring the connections for remote access clients, and managing and monitoring network access. Prerequisite: Completion of MSFT 22275 or concurrent enrollment. (4 lect.)

MUSIC

MUSC 0200 – Convocation. 0 credits (E)

Twice-monthly recital hour for students and guest performers. In addition to the scheduled convocations, students will be required to attend four approved concerts. Completion of four semesters with a grade of S is required for all music majors pursuing a music degree. Intended for, and required of music majors. Prerequisite: Concurrent in applied Music lessons: MUSC-1050, MUSC 1055, or MUSC 2070. (S/U Grading only)

MUSC 1000 – Intro to Music. 3 credits (E/CA)

A course in music appreciation for the student with or without prior musical experience. It is designed to increase understanding and enjoyment of the music of western civilization, and to increase critical discrimination in listening to music of all types. Attendance at specified public performances is required. (3 lect.) *HUM*

MUSC 1015 – Music Fundamentals. 3 credits (T)

This course is designed primarily for the student whose area of emphasis is not music. It acquaints the student with basic music theory (reading and writing music). Students actively participate in the process of creating and performing music. They develop an appreciation for the contribution of music to culture and learn to make aesthetic and intellectual judgments regarding music.(2 lect., 2 lab) *ARTS*

MUSC 1020 – Music Technology I. 3 credits (Max 6) (T)

This course will introduce the student to audio engineering techniques related to multitrack studio recording, audio reinforcement for theatre and broadcasting, and digital sound processing. A variety of projects will be completed by the student, including (but not limited to): simple two-track recording, setting up and running an audio reinforcement system, multitrack recording, synthesis programming for sound effects and audio processing. (2 lect., 1 lab)

MUSC 1025 – Music Technology II. 3 credits (T)

This course is a continuation of Music Technology I and furthers the study of audio engineering techniques related to digital multi-track recording, digital mastering, and digital sound processing. Students will advance their digital recording skills through a project-based curriculum, using the computer and contemporary software packages to create an integrated recording, editing, and mixing environment including digital mastering, signal processing, and post production. The principles and techniques of MIDI (Musical Instrument Digital Interface) and its uses in music composition and recording will also be explored. Prerequisite: Completion of MUSC 1020 or instructor's permission. (2 lect., 2 lab)

MUSC 1030 – Written Theory I. 3 credits (E)

Fundamentals and analysis of music including sound production, notation, scales, modes, intervals, key signatures, and triad construction. Prior musical knowledge is not required. To be taken concurrently with MUSC 1035. (3 lect.)

MUSC 1035 – Aural Theory I. 1 credit (E)

Designed to develop the student's skills in ear-training and sight-singing, with emphasis on melody, harmony and rhythm. To be taken concurrently with MUSC 1030. (1 lab)

MUSC 1040 – Written Theory II. 3 credits (E)

Continuation of MUSC 1030. Includes the structure of tonality, triads and their inversions, part writing, non-harmonic tones, phrase structure, cadences, harmonic progressions, and harmonization techniques. All topics reinforced with systematic analysis and practical application. To be taken concurrently with MUSC 1045. Prerequisites: Completion of MUSC 1030 and MUSC 1035. (3 lect.)

MUSC 1045 – Aural Theory II. 1 credit (E)

MUSC 1045 is a continuation of MUSC 1035. To be taken concurrently with MUSC 1040. Prerequisites: Completion of MUSC 1030 and MUSC 1035. (1 lab)

**MUSC 1050 – Private Lessons. 1 or 2 credits (T)
(Max 4 per instrument)**

MUSC 1050 provides individual instruction on a musical instrument for Non-Music Majors. Through the study of different periods and styles of music, students learn music theory related to their instrument, performance technique, and the cultural/historical context of those works of music. Students evaluate their skills through required video recording, discussion in Studio Class and optional performances. Credits earned in this course on the chosen instrument or voice, are not transferable for students whose area of emphasis is music. Students should practice a minimum of four hours/week. Instructor's permission is required for lab scheduling purposes only.

(.5 lect., 1 lab for 1 credit, 1 lect., 2 lab for 2 credits) **ARTS**

Baritone/Euphonium	Bass	Bassoon
Cello	Clarinet	Flute
French Horn	Guitar	Oboe
Percussion	Piano	Saxophone
Trombone	Trumpet	Tuba
Viola	Violin	Voice

Individualized instruction in various instruments is dependent upon availability of qualified instructors.

**MUSC 1055 – Individualized Lessons. 1 or 2 credits (T)
(Max 4 per instrument)**

MUSC 1055 provides freshman-level individual instruction on a musical instrument for Music Majors. Through the study of different periods and styles of music, students learn music theory related to their instrument, performance technique, and the cultural/historical context of those works of music. Students evaluate their skills through required video recording and recital performances. Students should practice a minimum of 12 hours/week. Instructor's permission is required for lab scheduling purposes only.

(.5 lect., 1 lab for 1 credit, 1 lect., 2 lab for 2 credits) **ARTS**

Baritone/Euphonium	Bass	Bassoon
Cello	Clarinet	Flute
French Horn	Guitar	Oboe
Percussion	Piano	Saxophone
Trombone	Trumpet	Tuba
Viola	Violin	Voice

Individualized instruction in various instruments is dependent upon availability of qualified instructors.

MUSC 1290 – Class Piano I. 1 credit (Max 4) (E)

Class Piano I provides group instruction for beginning piano students. This course emphasizes piano technique, piano music in its cultural/historical context, and music theory including simple accompaniments and transposition. Students should practice a minimum of two hours/week. (1 lect., 1 lab) **ARTS**

MUSC 1292 (MUSC 1150) – Class Guitar I. 1 credit (T)

Class Guitar I provides group instruction for beginning guitar students. Through the study of different styles of music, students learn music theory and technique related to the guitar. The cultural/historical context of the guitar and music written for the instrument are discussed. Students should practice a minimum of two hours/week. (1 lect., 1 lab) **ARTS**

MUSC 1378 – College Band. 1 credit (Max 4) (T)

College Band is a performance-oriented course designed to study and rehearse/perform standard concert band literature encompassing periods of music history from the Renaissance through Contemporary. Students develop skills in sight reading, music theory, and instrumental technique within the ensemble setting. Band members evaluate music performed using recordings (video and audio) of concerts. In addition members evaluate recorded examples of literature the band is currently rehearsing. Each musical work is performed with consideration to its cultural/historical context. (.5 lect., 1 lab) **ARTS**

MUSC 1390 – Jazz Ensemble I. 1 credit (Max 4) (E)

Jazz Ensemble I performs "big band" literature from the 1920s to contemporary styles. Students develop instrumental performance skills, an understanding of basic jazz theory, and jazz listening skills as they regularly evaluate their own and other's performances. Works for jazz ensemble are performed in consideration of their cultural/historical context. Regular attendance and concert attire are required. Ensemble performs in both concerts and dances throughout the year. An audition is required for proper placement. (2 lab) **ARTS**

MUSC 1391 – Community Jazz Ensemble. .5 credit (Max 2)

Community Jazz Ensemble performs "big band" literature from the 1920's to contemporary styles. Students develop instrumental performance skills, and understanding of basic jazz theory, and jazz listening skills as they regularly evaluate their own and other's performances. Works for jazz ensemble are performed in consideration of their cultural/historical context. Regular attendance and concert attire are required. Ensemble performs in both concerts and dances throughout the year. An audition is required for proper placement. (2 lab)

MUSC 1400 – Collegiate Chorale. 1 credit (Max 4) (E/CA)

Collegiate Chorale is a performance-oriented course designed to study and rehearse/perform standard concert choir literature encompassing periods of music history from the Renaissance through Contemporary. Students develop skills in sight reading, music theory, and vocal technique within the ensemble setting. Choir members evaluate music performed using recordings (video and audio) of concerts. In addition, members evaluate recorded examples of literature the choir is currently rehearsing. Each musical work is performed with consideration to its cultural/historical context. (2 lab) **ARTS**

MUSC 1404 – Master Chorale. .5 credit (T)

Master Chorale is a community-based performance ensemble. This group performs with the Collegiate Chorale and is open to all singers without audition. Students will rehearse and perform a variety of choral works, including secular and sacred literature, choral masterworks, and possibly choral/orchestral works. Performance attire is required. In addition to regular class time, performance time is required. (S/U grading only) (.5 lect.)

COURSE DESCRIPTIONS

MUSC 1405 – Touring Ensemble. 2 credits (Max 8)

Touring Ensemble is a performance-oriented class made up of select vocal and instrumental students. It combines vocal and instrumental jazz ensembles and tours through the state as representatives of CWC. Students develop instrumental performance skills, an understanding of basic jazz theory, and jazz listening skills as they regularly evaluate their own and other's performances. Works for jazz combo are performed in consideration of their cultural/historical context. Regular attendance and concert attire are required. An audition will be required. (4 lab)

MUSC 1409 – Chamber Singers. .5 credit

Central Wyoming A Cappella Chamber Singers is an all a cappella vocal performance ensemble. Singers are chosen by audition only. This group performs throughout Wyoming and other areas as a premier vocal performance group. Performance attire and frequent out-of-class time is required for performances and additional rehearsals. The choir sings both secular and sacred a cappella literature ranging from very early vocal music (12th Century) to contemporary vocal jazz and spirituals. (S/U grading only) (.5 lect.)

MUSC 1410 – Vocal Ensemble. 1 credit (Max 4) (E)

Vocal Ensemble is a performance-oriented course designed to study and rehearse/perform standard chamber choir literature encompassing periods of music history from the Renaissance through Contemporary. Students develop skills in sight reading, music theory, and vocal technique within the ensemble setting. Choir members evaluate music performed using recordings (video and audio) of concerts. In addition, members evaluate recorded examples of literature the choir is currently rehearsing. Each musical work is performed with consideration to its cultural/historical context. Prerequisite: Instructor's permission. (2 lab) **ARTS**

MUSC 1425 – History of Rock Music. 3 credits (T)

This course introduces students to the international musical art form of rock music. It explores the origins of rock music and traces various style periods from the early years of Chuck Berry to The Dave Matthews band and its contemporaries. Students will learn how to listen to rock music from a casual, perceptive, and critical point of view. Major artists, styles, recordings, and developments will be covered. (3 lect.) **HUM**

MUSC 1430 – Symphony Orchestra. 1 credit (Max 4) (E/CA)

Symphony Orchestra (Fremont County Orchestra) is a performance-oriented course designed to study and rehearse/perform standard orchestral literature encompassing periods of music history from the Baroque through Contemporary. Students develop skills in sight reading, music theory, and instrumental technique within the ensemble setting. Orchestra members evaluate music performed using recordings (video and audio) of concerts. In addition members evaluate recorded examples of literature the orchestra is currently rehearsing. Members of the Fremont County Orchestra perform on string, brass, woodwind and percussion instruments. Prerequisite: An audition is required for placement purposes. (.5 lect., 1 lab) **ARTS**

MUSC 1441 – Chamber Ensemble. 1 credit (Max 4) (T)

Chamber Ensemble is a performance-oriented course designed to study and rehearse/perform chamber music literature encompassing the Renaissance through Contemporary periods. Through the study of different periods and styles of music, students learn music theory, instrumental technique, and the cultural/historical context of chamber music. Students evaluate their skills through required video recording of performances. Students should practice a minimum of four hours/week. An audition will be required for placement purposes only. (2 lab) **ARTS**

MUSC 1452 – Handbell Choir. 1 credit (Max 3) (T)

Handbell choir is a performance-oriented course designed to study and rehearse handbell literature employing proper ringing techniques and musicianship. No music experience is required. (2 lab) **ARTS**

MUSC 1490 – Piano Ensemble. 1 credit (Max 4) (E)

Piano Ensemble provides individualized piano instruction using multi-piano literature, including duets, piano concertos, and duo-piano compositions. Through the study of different periods and styles of music, students learn music theory, piano technique, and the cultural/historical context of piano literature. Students evaluate their skills through required video recording of lessons, studio class and recital performances. Students should practice a minimum of four hours/week. An audition will be required for placement purposes only. (2 lab) **ARTS**

MUSC 2030 – Written Theory III. 3 credits (E)

MUSC 2030 is a continuation of MUSC 1030 and 1040. Deals with seventh chords, altered non-harmonic tones, altered sixth and seventh chords, modulation, and 9th, 11th, and 13th chords. All areas are reinforced through systematic analysis, practical application and performance. Prerequisite: Completion of MUSC 1040. To be taken concurrently with MUSC 2035. (3 lect.)

MUSC 2035 – Aural Theory III. 1 credit (E)

MUSC 2035 is a continuation of MUSC 1035 and 1045. Including two-part melodic dictation, harmonic dictation, modulating exercises, and advanced sight-singing. Prerequisite: Completion of MUSC 1045. (1 lab)

MUSC 2040 – Written Theory IV. 3 credits (E)

Continuation of MUSC 1030, 1040 and 2030. Course breaks away from traditional harmonic practices of the 18th and 19th centuries and explores the 20th century techniques and practices. Student-centered activities in the application of knowledge, personal creativity, experimentation, composition, and performance are encouraged. Prerequisite: MUSC 2030 to be taken concurrently with MUSC 2045. (3 lect.)

MUSC 2045 – Aural Theory IV. 1 credit (E)

MUSC 2045 is a continuation of MUSC 2035. Prerequisite: Completion of MUSC 2035. (2 lab)

MUSC 2050 – Music History Survey I. 3 credits (E)

This is a survey course beginning with ancient times and continuing through the Middle Ages, Renaissance and the Baroque periods, ending about 1750. Music is studied within the context of its historical period. The cultures and belief systems of those cultures are considered for their influence on the musical composition during each period. In turn, music's impact on the quality of life in each society is discussed. (3 lect.) **HUM**

MUSC 2055 – Music History Survey II. 3 credits (E)

This course continues the study of music from the Pre-Classical through the Classic, Romantic, and the 20th Century-Contemporary periods. Music is studied within the context of its historical period. The cultures and belief systems of those cultures are considered for their influence on the musical composition during each period. In turn, music's impact on the quality of life in each society is discussed. (3 lect.) **HUM**

MUSC 2057 – Jazz: A Listener’s Introduction. 3 credits (T)

This is a course designed to introduce students to the American multicultural indigenous musical art form of jazz. It explores the origins of jazz and traces the various style periods historically taking into consideration the cultures from which it grew including the Creole and European cultures. Students will learn the key elements of jazz such as improvisation and will learn how to listen to jazz. Major artists, styles, recordings, and developments will be covered. (3 lect.) *HUM*

MUSC 2070 – Individualized Lessons. 1 or 2 credits (Max 4 per instrument)

MUSC 2070 provides sophomore-level individual instruction on a musical instrument for Music Majors. Through the study of different periods and styles of music, students learn music theory related to their instrument, performance technique, and the cultural/historical context of those works of music. Required videotaping and recital performances give students an opportunity to evaluate their skills. A maximum of four credit hours of Applied Music may be used by the student whose area of emphasis is music certifiable toward the Associate of Arts degree in a single instrument or in voice. Students should practice a minimum of 12 hours/week. Prerequisite: Completion of MUSC 1055 (2 credits) and instructor’s permission for scheduling purposes only. (.5 lect., 1 lab for 1 credit; 1 lect., 2 lab for 2 credits)

CLPE

Baritone/Euphonium	Bass	Bassoon
Cello	Clarinet	Flute
French Horn	Guitar	Oboe
Percussion	Piano	Saxophone
Trombone	Trumpet	Tuba
Viola	Violin	Voice

Individualized instruction in various instruments is dependent upon availability of qualified instructors.

MUSC 2292 (MUSC 2151) – Class Guitar II. 1 credit (T)

A continuation of MUSC 1292: group instruction for guitarists with more playing experience. Through the study of different styles of music, students learn music theory and technique related to the guitar. The cultural/historical context of the guitar and its music are discussed. Students should practice a minimum of two hours/week. Basic guitar skills are required for this class. (2 lab)

MUSC 2379 – Fremont County Band. .5 credit (Max 2)

Fremont County Band is a performance-oriented course designed to study and rehearse/perform standard concert band literature encompassing periods of music history from the Renaissance through Contemporary. Musicians develop skills in sight reading, music theory, and instrumental technique within the ensemble setting. Band members evaluate music performed using recordings (video and audio) of concerts. In addition members evaluate recorded examples of literature the band is currently rehearsing. Each musical work is performed with consideration to its cultural/historical context. Prerequisites: Prior instrumental experience and instructor’s permission. (1 lab)

MUSC 2395 – Piano Proficiency. 0 credits (E)

Completion of the piano proficiency examination is a graduation requirement of all music majors. Prerequisites: This course is only open to students enrolled in the AA Music degree program. (S/U Grading only)

MUSC 2406 – Advanced Projects in Music. 1-3 credits (Max 3)

Advanced Projects in Music offers a unique opportunity for students to receive both individual attention and group critiques. Students are permitted and encouraged to design their own in-depth projects and/or set performance goals. These will include performance, music technology, music composition/arranging and/or historical perspectives. Prerequisite: Instructor’s permission. (1-3 lect.)

NATIVE AMERICAN STUDIES- SEE AMERICAN INDIAN STUDIES



NURSING

HLTK 1550 – Intro to Professional Health Occupations. 2 credits

This course introduces students to the organization and structure of various agencies and roles of the healthcare team. Confidentiality, professionalism, effective communication, working with diverse populations, and legal and ethical considerations related to the healthcare environment will be emphasized. (2 lect.)

NRST 1000 (NURS 1000) – Fundamentals of Nursing. 7 credits (T)

This course is designed to provide an introduction to the self-care potential of individuals, the position of the nurse in assisting toward that goal, selected nursing care procedures, and the basic concepts of nutrition, pharmacology, nursing process, communication, and self-responsibility. Practical experience is gained in the skills laboratory and in clinical settings. Prerequisite: Acceptance into the nursing program. (5 lect., clinical 8 hours per week)

NRST 1110 – Mental Health & Illness. 2 credits

This course concentrates on mental health and illness, deviations from the normal personality, and therapeutic measures including the use of psychotropic drugs to alleviate the conditions. Prerequisites: Completion of MOLB 2210, PSYC 1000, and NRST 2120. (2 lect.) *IT*

NRST 1120 – Medical-Surgical Nursing I. 6 credits (T)

This course concentrates on acute medical-surgical illnesses with an emphasis on surgical problems as clients are followed through the preoperative, intraoperative, and postoperative phases. The student will apply the nursing process to clients, to include care of the older adult. The student will explore principles of client education and use therapeutic communication techniques to promote self-care. Prerequisites: Completion of MOLB 2210, PSYC 1000, and NRST 2120. (2.5 lect., clinical 12 hours per week)

NRST 1200 – Medical Terminology. 3 credits

This course presents a basic study and practical application of the language of medicine and introduces students to proper spelling, definition, and pronunciation of medical terms. The course provides a systematic approach to medical word construction based on the concept of combining word roots, prefixes, and suffixes; and includes proper terminology associated with the major body systems. (3 lect.)

NRST 1400 – LPN Transition. 2 credit

The LPN Transition course provides licensed practical nurses with the skills necessary for successful advanced placement into the second year of the nursing program. The course includes a review of the theoretical framework used throughout the Associate Degree Nursing Program at Central Wyoming College, use of the nursing process through application of concepts, review of physical assessment techniques, and demonstration of intravenous therapy procedures. Specific topics used for assessment and nursing care of adults are included. Prerequisites: Completion of ENGL 1010, ZOO 2015, ZOO 2025, PSYC 1000, MOLB 2210, and MATH 1000 or higher; passing scores on the LPN STEP assessment; and a minimum of 4 credits of pharmacology taken within the past five years. A current LPN license is required. (2 lect.)

NRST 1500 – Nursing Assistant. 4 credits

This course provides an introduction to the self-care potential of individuals, the position of the nursing assistant, basic nursing care procedures, communication, and self-responsibility. It is designed to help students achieve entry level nursing assistant knowledge and skills. Meets OBRA and Wyoming State Board of Nursing requirements. (3.5 lect., clinical 36 hours total)

NRST 1505 – LPN STEP Assessment. 7-15 credits

Licensed practical nurses pursuing an RN license may enter the Associate Degree Nursing Program with advanced standing by achieving passing scores in the required areas on the LPN STEP (Specialized Testing to Evaluate Preparedness). Based upon achieved scores, seven to fifteen credits may be transcribed toward first year nursing course degree requirements.

NRST 1520 – Client in the Community. 2 credits

This course focuses on the care of families in settings other than acute care facilities. Topics include assessment of the environment and the individual within that environment, vulnerable populations, family violence, children in the community, family support (community, regional, & national), reimbursement sources, and clinical pathway as it relates to delivery of care from a healthcare team. Prerequisites: Completion of MOLB 2210, PSYC 1000, and NRST 2120. (1.5 lect., clinical 16 hours total) **CLCE**

NRST 1550 – Certified Nursing Assistant II. 3 credits

This course provides certified nursing assistants (CNA) with the knowledge and skills to expand their role in selected healthcare settings. The student will explore the rationale for skill procedures within the role of a CNA II, and will demonstrate those skills in the classroom and clinical setting. On successful completion of the course, students are eligible for certification as a CNA II. Students must meet eligibility criteria set forth by the Wyoming State Board of Nursing as indicated in the program description. Prerequisites: Completion of NRST 1200, HLTK 1550 (or concurrent enrollment), ZOO 2015, and instructor's permission. A current unencumbered Wyoming certified nursing assistant certificate is required. (2 lect., clinical 36 hours total)

NRST 1600 – Medication Assistant. 6 credits

This course provides students with current Wyoming certified nursing assistant II (CNA II) certification the knowledge and skills to safely administer medications in selected healthcare settings. The student will explore the rationale for medication administration within the role of a medication assistant-certified (MA-C) and will demonstrate these skills in the classroom and clinical setting. On successful completion, students are eligible for certification as a

medication assistant. Students must meet eligibility criteria set forth by the Wyoming State Board of Nursing as indicated in the program description. Prerequisites: Completion of HLTK 1550, NRST 1200, NRST 1550, ZOO 2015, and instructor's permission. A current Wyoming certified nursing assistant II certificate is required. (5 lect., clinical 40 hours total)

NRST 1690 – Pharmacology. 4 credits

This course is designed to guide the student in developing a basic understanding of pharmacological concepts by exploring the mechanisms of action, therapeutic responses, adverse effects, and potential interactions of various classes of drugs. The nursing process is utilized in the study of therapeutic administration of commonly prescribed drugs, with emphasis on the responsibilities of healthcare providers, development of safe medication administration practices, client education, and promotion of self-care. Prerequisite: Acceptance into the nursing program or nursing director's permission. (4 lect.)

NRST 2120 – Nursing Care of Parents & Children. 10 credits (T)

This course focuses on the role of the maternal-child health nurse in assisting individuals and families to maintain, achieve, or regain their optimal level of health. The childbearing family from pre-conception to parenthood will be explored in the first half of the course, and child health and development from infancy through adolescence will be the focus of the second half. Prerequisites: Completion of MATH 1000 or higher; PSYC 1000 (or concurrent enrollment); NRST 1000 and NRST 1690, or nursing director's permission. (6 lect., clinical 12 hours per week)

NRST 2130 – Medical-Surgical Nursing II. 10 credits (T)

This is an advanced adult medical-surgical nursing course where the student has a final opportunity to apply nursing knowledge and practice skills acquired in preceding and concurrent courses. The student will have the opportunity to demonstrate attitudinal, psychomotor, and cognitive abilities necessary to provide safe and appropriate nursing care. Experience is gained in hospitals and community settings. Prerequisites: Completion of NRST 1110, NRST 1120, and NRST 1520. (5 lect., clinical 16 hours per week)

NRST 2400 – Trends in Nursing Leadership. 2 credits

This course will explore current nursing trends, leadership and management theories, legal issues, communication, and professional organizations. The student will explore leadership styles and roles relative to the discipline of nursing. The role of the registered nurse in delegation and the relationship this role has on various care delivery models will be explored. Current issues in nursing will be examined as well as their potential effect on nursing practice. Students will apply critical thinking to solve problems. Prerequisites: Completion of NRST 1110, NRST 1120, and NRST 1520. (1.5 lect., clinical 12 hours total) **CLPE**

NRST 2800 – Perioperative Nursing. 8 credits

The student will learn basic principles of nursing care given to the patient from the time he enters the O.R. suite until transfer to a recovery area. The student will learn assessment of the surgical patient, basic instrumentation, aseptic technique, basic surgical cases with preparation in the surgical field. Practical experience is gained in the campus skills simulated O.R. and hospital surgical rotation sites. Prerequisites: Nurses with unencumbered Wyoming license to practice nursing (LPN/LVN, RN) or graduate of an approved nursing program with eligibility for NCLEX-RN/PN. (S/U grading only) (4 lect., 8 lab)

OUTDOOR EDUCATION/RECREATION**EDUC 1050 – Leading Adventure Programs. 3 credits (T)**

This foundation course will focus on leadership development for adventure programs aimed at providing recreation, education, or therapy for their participants. Students will explore the history and philosophy of adventure programming, outdoor leadership skills, environmental stewardship, risk management and effective facilitation of adventure programs. (3 lect.)

EDUC 1055 – Intro to Outdoor Education. 3 credits (T)

This course will show students how to use physical, cognitive, and affective methods to teach lessons in varied settings to different audiences linking educational theories to teaching methods and applications to foster optimal learning. Students will apply educational theories to outdoor teaching methods and learn to select and deliver the instructional strategy that works best for their audience, whether working for a secondary school, college, camp, tour operator, environmental learning center, guide service, or government agency. (2 lect., 2 lab)

EDUC 2015 – Outdoor Educator. 1-5 credits (Max 12) (T)

This course is offered in conjunction with the National Outdoor Leadership School and prepares students to be safe, competent, responsible wilderness leaders and travelers, familiar with the NOLS outdoor education techniques and philosophies. Students will learn how to supervise novices during a basic wilderness experience. Students will apply environmental ethics during the wilderness experience. This course is offered in more than one environmental setting and may be repeated for a maximum of 12 credits if taken in a new environment each time. (1-5 lect.)

EDUC 2045 – Outdoor Leadership Instructor. 1-5 credits (T)

This course prepares instructors to teach and practice responsible habits that promote the health and safety of self and others. Students are exposed to the theory and practice of outdoor leadership, teamwork and expedition behavior which involves commitment to the group, a positive attitude and cooperation to achieve goals. Students will live, travel and guide others in the outdoors within a framework of safety and care for the environment. An awareness of how to apply minimum impact ideas to their lives beyond the course will be developed. Students are expected to be prepared as wilderness educators as well as wilderness leaders. (1-5 lect.)

EDUC 2470 – Outdoor Education Practicum. 4 credits (T)

This course will provide a practicum for experiential learning in one of the following areas selected by the student: trail design and construction, public land management, environmental conservation education, guiding, outfitting, wilderness skills development, parks and recreation, or outdoor programs for public schools. As a part-time intern, the student will work closely with a practicum supervisor in a faculty-approved host organization. Flexible work schedule may be developed around student's class schedule. Prerequisites: Completion of Introduction to Outdoor Education (EDUC 1055), instructor's approval, and approval of a host organization. (8 lab) **CLPE**

EQST 2655 – Wilderness Horsepacking. 1-5 credits (T)

This course teaches wilderness users to practice responsible habits that promote the health and safety of self, others and livestock. Students are exposed to the theory and practice of outdoor leadership, teamwork and expedition behavior utilizing horses as an accessible, efficient and environmentally sound mode of wilderness travel. Students will apply principles of ecology during the wilderness experience. Prerequisite: National Outdoor Leadership School (NOLS) permission. (1-5 lect.)

G&R 1090 – Avalanche Level 1: Decision Making in Avalanche Terrain. 1 credit (T)

This course provides a complete introduction to the avalanche phenomenon, avalanche terrain, decision making, and rescue protocol. The course is designed for those new to travel in avalanche terrain. Instruction will increase avalanche awareness and safety for participants in all forms of winter recreation: snowshoeing, skiing, snowboarding, and snowmobiling. Students will spend about 8 hours in the classroom and about 16 hours outdoors in the snow. This course is taught in partnership with the American Institute for Avalanche Research and Education (AIARE) and successful students will receive a certificate of completion for the AIARE Level - 1 Avalanche Training. (.5 lect., 1 lab)

G&R 1150 – Outdoor Recreation. 3 credits

This course provides students with foundational knowledge of outdoor recreation practices and delineates a variety of career options in the field of outdoor recreation. A detailed study includes delivery of recreational programming through parks, public recreation, nonprofit organizations, commercial recreation, tourism, and therapeutic recreation. In addition, this course will cover how US public lands are managed for a variety of recreation activities. (2 lect., 2 lab)

G&R 2020 – Mountaineering. 1-5 credits (Max 8) (T)

Along with a wide range of mountaineering techniques, this course prepares students in map-reading and route finding, minimum-impact camping and first aid. Safety, judgment, leadership skills, and environmental ethics are stressed. While this course will focus on outdoor skills, expedition behavior will be part of the course curriculum. Students will learn to live and work closely with classmates. Tolerance for adversity and uncertainty, respect for others and the environment and a willingness to work hard will be critical to success. Students should expect ongoing verbal coaching and feedback throughout the course, as well as verbal performance summaries at the end of each section. This course may be repeated once in a different location. (1-5 lect.)

G&R 2030 – Wilderness Backpacking. 1-5 credits (Max 8) (T)

This course teaches wilderness users to practice responsible habits that promote the health and safety of self and others. Students are exposed to the theory and practice of outdoor leadership, teamwork and expedition behavior. Students will learn to live and travel in the wilderness within a framework of personal safety and care of the environment. Students will develop an awareness of how to apply "Leave No Trace" philosophy to their lives beyond the course. Students will apply principles of environmental ethics during the wilderness experience. This course may be repeated once if in a different location. (1-5 lect.)

G&R 2031 – Combined Expeditions. 1-5 credits (Max 4-10)

This is an expedition-based course, emphasizing leadership and teamwork. Various offerings of this course include both land and water sections emphasizing different skills, such as backpacking, kayaking, canoeing or climbing. While this course will focus on outdoor skills, expedition behavior will be part of the course curriculum. Students will learn to live and work closely with their course mates. Tolerance for adversity and uncertainty, respect for others and the environment, and a willingness to work hard will be critical to success. Students should expect ongoing verbal coaching and feedback throughout the course, as well as verbal performance summaries at the end of each section. This course may be repeated once with a different skill set or in a different location. (1-5 lect.)



G&R 2032 – Winter Expeditions. 1-5 credits (Max 4-6)

This course is designed to enable you to enjoy winter in the mountains safely and comfortably. Snow travel may be either by skiing or snowboarding. Winter mountain skills taught include cold injuries, dressing for winter, avalanche awareness, and snow shelters. Skills will be practiced both in the backcountry and a base camp or other accommodations. Traveling with a pack will be required. This course may be repeated with a different skill set or in a different location. (1-5 lect.)

G&R 2033 – Rock Climbing. 1-5 credits (Max 6)

This is a base camp course that includes some backcountry travel, emphasizing leadership and teamwork. Outdoor skills learned in this course include map reading, navigation, hiking and low-impact camping. Climbing skills include belaying, knots, rope handling, signals, top-roping and rappelling, climbing ethics, protection placement, anchor building and climb leading. While this course will focus on outdoor skills, expedition behavior will be part of the course curriculum. Students will learn to live and work closely with their course mates. Tolerance for adversity and uncertainty, respect for others and the environment, and a willingness to work hard will be critical to success. Students should expect ongoing verbal coaching and feedback throughout the course, as well as verbal performance summaries at the end of each section. There will also be opportunities for interpreting and understanding the natural environment. This is a demanding and fast-paced course. This course may be repeated once with a different skill set or in a different location. (1-5 lect.)

G&R 2034 – Water Expedition. 1-5 credits (Max 6-10)

This is a small group travel-based course, emphasizing leadership and teamwork. Various offerings of this course include water sections emphasizing different skills, such as kayaking, canoeing, sailing or rafting. While this course will focus on outdoor skills, expedition behavior will be part of the course curriculum. Students will learn to live and work closely with their classmates. Tolerance for adversity and uncertainty, respect for others and the environment, and a willingness to work hard will be critical to success. Students should expect ongoing verbal coaching and feedback throughout the course, as well as verbal performance summaries at the end of each section. There will also be opportunities for interpreting and understanding the natural environment. This is a demanding and fast-paced course. This course may be repeated once with a different skill set or in a different location. (1-5 lect.)

G&R 2035 – River Rescue Certification. 1 credit

The River Rescue Certification course focuses specifically on rivers and rescue from a professional or recreational boater's point of view. Short lectures will be followed with immediate hands-on application in the water. This course is appropriate for aspiring whitewater guides and serious recreational river boaters. The course takes place over 2-3 days with case study homework in the evenings and meets all permitting agencies' river/swiftwater rescue certification requirements for river guides and kayakers. (5 lect., 1 lab)

G&R 2050 – Environmental Ethics & Management. 1-5 credits (T)

This course is offered in conjunction with the National Outdoor Leadership School (NOLS). This course involves immersion in the geography and culture of the area in which the course is held. Class work in physical and cultural geography will provide students with information that is easily integrated with the environmental ethics of land management and low impact camping. This course is part of the NOLS semester and must be taken concurrently with EDUC 2050 and BIOL 2045. On certain semesters it is also taken concurrently with HLED 2010. NOLS semesters are taught experientially, so climate, season, terrain, participants, specific course selection, and other factors generally support some outcomes more than others. (1-5 lect.)

G&R 2090 – Avalanche Level 2: Analyzing Snowpack & Avalanche Hazard. 2 credits (T)

The Avalanche Level 2 course provides backcountry leaders the opportunity to advance their avalanche knowledge and decision making skills. The Level 2 builds from the introductory avalanche hazard management model introduced in the Level 1 course, and adds the evaluation of factors critical to snow stability analysis. Students will spend a mix of their time in a classroom and outdoors in the snow. This course is taught in partnership with the American Institute for Avalanche Research and Education (AIARE) and successful students will receive a certificate of completion for the AIARE Level 2 Avalanche Training. Prerequisites: G&R 1090, Avalanche Level 1: Decision Making in Avalanche Terrain. (1 lect, 2 lab.)

PERSONAL DEVELOPMENT

Human Development

HMDV 2150 – Term Paper Clinic. 2 credits

This course provides information and hands-on experience with library resources, as students follow the process of gathering material and creating a term paper. Emphasis is placed on search strategy, available sources, organizing and evaluating information, and writing the paper. Students must complete a term paper as a requirement of the course. (2 lect.)

Personal Development

PDEV 1110 – Job Search Skills. 1 credit

Students will learn how to conduct a successful job search. Topics to be covered include completing job applications, writing an effective resume, preparing for the job interview, using career resources to locate jobs and how to market your unique skills and background. This course is recommended for those who will seek employment following graduation. Block class. (1 lect.)

PDEV 1510 – Gold Minds. .5-3 credits (Max 6)

These courses provide strategies in self and global awareness, and improvement in academic study skills. (.5-3 lect.)

Psychology**PSYC 1250 – Human Potential Seminar. 1 credit (T)**

This is a personal group-based workshop designed to help students become aware of their individual potential. The activities of the course are structured to help students become more self-determining, self-motivating and develop greater self-worth. (1 lect.)

PHILOSOPHY**PHIL 1000 – Intro to Philosophy. 3 credits (E/CH)**

This is an introduction to philosophical problems of ethics, religion, epistemology, and metaphysics. Critical thinking skills will be developed through a study of elementary logic. Philosophical traditions of Eastern and Western cultures are compared. (3 lect.) **HUM**

PHIL 2420 (1100) – Logic I: Critical Thinking. 3 credits (E/CH)

This course is designed to introduce students to basic principles of critical thinking and argument. Specifically, students will learn skills necessary for good critical thinking, sound argumentation and the evaluation of arguments. The course will show how critical thinking skills are related to other disciplines and fields of endeavor. (3 lect.)

PHOTOGRAPHY- See Art**PHYSICAL EDUCATION****Health Education****HLED 1006 – Personal Health. 3 credits (E)**

This course forms a body of knowledge from biological and social sciences essential for sound decision in health maintenance and a proper sense of health values. The activity will be participated in for a minimum of two hours per week and fully documented by a participation log. Students not physically able to participate in any exercise program will be required to submit to the instructor a signed physician's excuse documenting that the student cannot physically exercise. The instructor will then coordinate an alternative educational activity. Students earning credit in HLED 1006 may not earn credit in HLED 1282. (2 lect., 2 lab) **WELL/PEAC**

HLED 1221 – Standard First Aid & Safety. 1 credit (E)

This course provides a basic study of accident prevention and procedures and techniques for first aid care of accident or sudden illness victims. Students who pass with a C or higher will receive American Red Cross certification. (1 lect.)

HLED 1235 – Emergency Medical Training. 4 credits

Designed for the Emergency Medical Technician. Includes anatomy and physiology of the human body, techniques of emergency treatment for various injuries and emergency situations, and other topics relative to emergency medical and first aid practices. Minimum of 60 hours classroom instruction and 24 hours of hospital training. Prerequisite: Standard First Aid or equivalent training. (4 lect.)

HLED 1240 – First Aid & CPR. 3 credits

This course meets American Red Cross Standards for certification and prerequisites for further study in emergency care. Students who satisfactorily complete the course will receive American Red Cross certification in First Aid and CPR. Students may not receive credit in both HLED 1221 and HLED 1240. (3 lect.)

HLED 1245 – BLS for Healthcare Providers. 0.5 credits

This course provides students with the theory and skills necessary for certification in Basic Life Support (BLS) for Healthcare Providers. This course follows the required curriculum identified by the American Heart Association. Certification in Basic Life Support (BLS) for Healthcare Providers is required for individuals who provide direct care to clients in all healthcare settings, as well as other professional roles having direct contact with the public, including day care providers, school district employees, law enforcement and emergency services personnel. Students who successfully complete the course will receive a two year certification or recertification in the American Heart Association BLS Standards for Healthcare Providers. (0.5 lect.)

HLED 1281 – Health & Wellness. 1 credit

Wellness constitutes one of the major components of a healthy lifestyle and general health promotion. The knowledge and experience gained in this course will enable students to make informed decisions about their own health as it relates to their quality of life and longevity. (1 lect.) **WELL**

HLED 1282 – Exercise, Health & Wellness. 2 credits (E/P)

Wellness constitutes one of the major components of a healthy lifestyle and general health promotion. The knowledge and experience gained will enable students to make informed decisions about their own health as it relates to their quality of life and longevity. This course will also include an individualized exercise program coordinated with the instructor. The activity will be participated in for a minimum of two hours per week and fully documented by a participation log/diary. Students not physically able to participate in any exercise program will be required to submit to the instructor a signed physician's excuse documenting that the student cannot physically exercise. The instructor will then coordinate an alternative educational activity. Students earning credit in HLED 1282 may not earn credit in HLED 1006. (1 lect., 2 lab) **PEAC/WELL**

HLED 1599 – Wellness in the Community. .5 credit

Community members who want to use the CWC gym and fitness center for fitness/wellness activities on their own time when these facilities are open and no classes are in session should register for this course. They must have a current application to CWC on file to register. Students will be required to attend a MANDATORY fitness safety briefing. Grading will be Audit only, and the course CANNOT be used toward meeting academic requirements in any CWC academic program. (.5 lab)

HLED 2006 – Health for Elementary Educators. 1 credit (E)

In this course, students will examine national and state health standards in elementary schools. Sample health curricula, learning models and approaches will be compared. Students will present health lesson plans and demonstrate how they can integrate into language arts curricula. Current health related issues facing the elementary age student, families, and the elementary classroom teacher will be evaluated. (1 lect.)

HLED 2010 – Wilderness First Responder. 4 credits

This course is designed to provide outdoor leaders, instructors, guides, rangers, and wilderness and foreign travelers with the knowledge needed to deal with emergencies in remote settings. The curriculum covers standards of care for urban situations with additional protocols for remote situations. Special topics include but are not limited to: CPR considerations (when not to start and when to stop), wilderness wound and burn management, clearing patients of spine and head trauma, athletic injuries, realigning fractures and dislocations, improvising splinting techniques, patient monitoring and long-term management problems, up-to-date information on all environmental emergencies, common simple medical problems, plus advice on drug therapies. Emphasis is placed on prevention and decision-making. Certifications upon successful completion include: Adult & Child CPR certification and a Wilderness First Responder certification. Current EMTs will earn a Wilderness EMT certification. All certifications are current for two years. All levels of prior training are welcome. (3 lect; 2 lab)

HLED 2015 – Wilderness EMT. 9 credits

This comprehensive course integrates the urban Emergency Medical Technician (EMT)-Basic curriculum with a wilderness medicine curriculum delivered through classroom education, practical skills, scenarios and full-scale outdoor mock rescues. Successful completion of the course and both written and practical examinations will certify the student as a National Registry of Emergency Medical Technicians (NREMT) Basic EMT. Students also receive a Wilderness EMT certification from the course provider. Both certifications are current for two years. Students must have a current healthcare provider level CPR certification (most commonly called CPR for the Professional Rescuer or BLS Healthcare Provider CPR) and a TB test completed within 1 year prior to the last day of the course. For clinical rotations, students may also be required to pass a criminal background check, a 9-panel drug screen or other location specific requirements. (6 lect., 6 lab.)

EMT 1500 – Emergency Medical Technician: Basic (EMT-B). 8 credits

This entry-level course is designed to prepare students to provide medical and emergency trauma care at the basic level and to interface with advanced care providers. The course is designed to prepare students to identify medical and trauma emergencies, such as bleeding and shock, soft tissue injuries, fractures and splinting, head and spinal injuries, general pharmacology, cardiovascular and respiratory, diabetic, behavioral, environmental, ambulance/EMS operations, and extrications. In addition, students are instructed in how to provide appropriate interventions for the preceding listed medical and trauma emergencies. Students completing the course and successfully passing the EMT State Certifying Exam are able to work in the field of pre-hospital emergency medicine as paid or volunteer providers. The National Registry of EMTs certification is not equivalent to a state's certification requirements. Students must demonstrate competencies by taking the state certifying exam. Students must provide proof of required immunizations and an AHA Healthcare Provider CPR (or equivalent) certificate before participating in clinical. Recommended: Basic Emergency Care (BEC) Certificate. (6 lect., 1 lab, 1 clinical)

PEPR 1230 – Cardio-Pulmonary Resuscitation. .5-1 credit (E)

This course will focus on one person Cardio-Pulmonary Resuscitation (CPR) for adults, children, and infants, and techniques for handling victims of choking and airway obstructions. Students passing with a C or higher will receive American Red Cross certification cards. (1 lect.)

PEPR 2050 – Prevention & Care of Athletic Injuries. 2 credits (E)

This course is designed to meet the Wyoming State Coaches' certification requirements and prepare coaches for the recognition and care for athletic injuries. (2 lect.)

PEPR 2093 – Sports Officiating. 1-2 credits (Max 6) (T)

This course covers the techniques and rules of sports officiating. Necessary principles and procedures are emphasized for the student to become an effective official for a variety of sports. Laboratory experience in officiating is provided. This course may be repeated for a maximum of six credits toward graduation. (1-2 lect., 2-4 lab)

Physical Education Activity

PEAC 1XXX – Physical Education Activity. 1 credit (Max 6)
(PEAC 1000 – PEAC 1540)

These physical activities courses are for men and women. A maximum of five physical education activity credits plus the one required is allowable toward an AA or AS degree. Not all of the options listed below are offered each semester. (2 lab) *PEAC*

- PEAC 1000 - Physical Education Activity in:**
- PEAC 1009 - Recreational Games**
- PEAC 1011 - Aquatic Conditioning**
- PEAC 1012 - Beginning Swimming**
- PEAC 1022 - Tumbling & Stunts**
- PEAC 1023 - Day Hiking & Regional Trailheads.**

This course is an excellent orientation to regional trailheads and short hikes in both desert and mountain environments. (2 lab)

- PEAC 1031 - Western & Social Dancing**
- PEAC 1037 - Fitness Walking**
- PEAC 1041 - Self-Defense/Martial Arts**
- PEAC 1050 - Tennis**
- PEAC 1248 - Soccer**
- PEAC 1251 - Archery**
- PEAC 1252 - Badminton**
- PEAC 1253 - Bowling**
- PEAC 1255 - Golf**
- PEAC 1257 - Racquetball**
- PEAC 1258 - Skiing & Snowboarding**

This is a beginning level course for students interested in lift-served downhill skiing or snowboarding. Students will practice safe ski and snowboard techniques for resort skiing and snowboarding. The course will also present an overview of equipment, proper clothing, waxing and risk management techniques. All clothing and ski or snowboard equipment must meet instructor approval and must be provided by the student.(2 lab)

PEAC 1259 - Cross Country (Nordic) Skiing.

This course will provide the opportunity to learn and experience cross country (Nordic) skiing and will present an overview of equipment, proper clothing, ski care and waxing and safe skiing techniques. Both classic and skate skiing technique on a groomed track will be presented. (2 lab)

- PEAC 1260 - Volleyball**
- PEAC 1263 - Basketball**
- PEAC 1264 - Softball**
- PEAC 1271 - Weight Loss Conditioning**

- PEAC 1272 - Aerobics
- PEAC 1273 - Heavy Resistance
- PEAC 1275 - Circuit Training/Exercise
- PEAC 1287 - Outdoor Rock Climbing
- PEAC 1292 - Strength & Flexibility
- PEAC 1293 - Advanced Strength & Flexibility
- PEAC 1294 - Introductory Yoga I
- PEAC 1295 - Individual Exercise Programs
- PEAC 1297 - Whitewater Rafting & Rescue.

This course provides an introduction to river running/rafting and swift water rescue training and is geared to the beginner/intermediate boater. This course will provide the opportunity to learn and experience rafting on rivers, possibly up to Class III, and will present an overview of equipment, proper clothing, and safe river techniques for this activity. Various boating techniques for oar-rigs, paddle teams and single cat-a-rafts will be covered.

- PEAC 1387 - **Indoor Rock Climbing. (T)**
This course explores the fundamentals of indoor rock climbing. Students will build fundamental skills in practices of: bouldering, face climbing, movement techniques, strength training, basic equipment, knots, risk management, belaying, toproping, and basic commands. This class will be taught on the CWC climbing wall. (2 lab)

- * PEAC 1401 - Dance & Movement
- * PEAC 1410 - Ballet I/I
- * PEAC 1420 - Ballet I/II
- * PEAC 1431 - Modern Dance I
- * PEAC 1441 - Modern Dance II
- * PEAC 1450 - Beginning Tap Dance

*The 6 courses above may be taken as PEAC 1401, 1410, 1420, 1431, 1441 & 1450 or THEA 1401, 1410, 1420, 1430, 1440 & 1450, but a maximum of one credit will be allowed for graduation.

PEAC 1540 – Mountain Biking 1 credit (T)

This off-road bicycle-riding course will cover basic riding technique, maintenance, risk management, and clothing and equipment selection. It is recommended that students have some experience riding off-road terrain ranging from two-track jeep roads to technical single-track and the physical ability to ride distances of 10-20 miles on trail. The course will include a weekend, mountain-bike trip. (2 Lab) **PEAC**

PEAC 2XXX – Physical Education Activity. 1 credit (Max 6)

These physical activities courses are offered to provide instruction in development of intermediate/advanced skill. A maximum of five physical education activity credits plus the one required is allowable toward an AA or AS degree. Not all of the options listed below are offered each semester. CWC PEAC 2XXX courses **CAN NOW** be used to meet the PEAC General Education requirement. Prerequisites: applicable beginning level PEAC course or instructor's permission. (2 lab) **PEAC**

- PEAC 2011 - Intermediate Swimming
- PEAC 2018 - Emergency Water Safety/Lifeguard Training

- PEAC 2025 - **Wilderness Navigation.**
This field-based course introduces basic techniques of land-based wilderness navigation. Students will use topographic maps, compasses and handheld GPS units for backcountry travel. Topics will include: map reading, route finding, triangulation, minimum impact travel, trip planning, documentation, and fitness considerations for backcountry travel. (2 lab)

- PEAC 2058 - **Backcountry Skiing & Snowboarding.**
This is an intermediate level course for students with previous experience in downhill skiing or snowboarding. Students will practice back-country snow travel using their choice of alpine touring skis, telemark skis, or a split snowboard. Students will learn to use climbing skins, route-find, and assess avalanche hazards in mountainous terrain. The course will also present an overview of equipment, proper clothing, waxing and risk management techniques for winter backcountry travel in the mountains. All clothing and ski or snowboard equipment must meet instructor approval and must be provided by the student. (2 lab)

- PEAC 2088 - **Rock Bouldering II.**
This course will allow for a natural progression from the Rock Bouldering I course and provides for further skill development in the areas of climbing techniques, equipment and gear, safety awareness, and training. Prerequisite: Completion of PEAC 1287 or instructor's permission.

- PEAC 2094 - **Introductory Yoga II**

PEAT 2XXX - Varsity/Club Activities.

The following activities are for enrollments only by members of athletic teams. Participation in these activities will **NOT** satisfy any general education requirements.

- PEAT 2025 - **Varsity Rodeo 1 credit (Max 4)**
This course is designed to prepare varsity rodeo athletes for competition. Emphasis is placed on improving and developing techniques needed to perform in the rodeo arena along with instruction in the interpretation of the rules regulating all rodeo events. Students must be active National Intercollegiate Rodeo Association (NIRA) members and participate in Central Rocky Mountain Region (CRMR) rodeos. Prerequisite: Instructor's permission. (1 credit, 4 max)
- PEAT 2062 - **Varsity Basketball 1 credit (Max 4)**
Varsity Basketball is for enrollment only by members of athletic teams. Participation in these activities will not satisfy any general education requirement. [1 lab]
- PEAT 2064 - **Varsity Volleyball 1 credit (Max 4)**
- PEAT 2171 - **Club Soccer 1 credit (Max 4)**

PHYSICS

PHYS 1050 – Concepts of Physics. 4 credits (E/SP)

This course is an introduction to various fundamental concepts, principles and applications of physics. Conceptual understanding, critical thinking, problem solving, the scientific method and the relationships among physics, technology and society are emphasized. Lecture and discussion will be integrated with laboratory explorations. The course is taught at the mathematical level of basic algebra. Prerequisite: Completion of MATH 0920 or placement into MATH 0930 or higher. (3 lect., 3 lab) *LSCI*

PHYS 1090 – Fundamentals of the Physical Universe. 4 credits (E/SP)

This course is designed to apply fundamental physical science principles to real life situations. Concepts in chemistry and physics are used to study the nature of science and the relationships between science and society. Topics include the scientific method, motion, energy, light, matter, electricity and magnetism, waves, atomic and molecular structures and chemical reactions. Primarily for elementary education majors (who should also enroll in EDEL 1440 concurrently or the following semester), this course may be used as a laboratory science course for other non-science majors and general studies students. This course cannot be used for LSCI credit toward an A.S. degree in Biological Science, Earth and Environmental Science, Pre-Health Professional, Mathematics, Physical Science, Pre-Engineering or Environmental Science and Leadership. Students earning credit in PHYS 1090 may not earn credit in CHEM 1090. Prerequisite: Completion of MATH 0920 or test into MATH 0930 or higher. (3 lect., 3 lab) *LSCI*

PHYS 1110 – General Physics I. 4 credits (E/SP)

This course is the first course in a two-semester sequence which provides an introduction to college physics without calculus. It is primarily designed for pre-medical, pre-dental, pre-optometry, pre-physical therapy, and other students requiring an insight into the physical world. Topics covered include Newtonian mechanics, thermodynamics and wave phenomena. Prerequisite: Completion of MATH 0930 or test into MATH 1400 or higher. (3 lect., 3 lab) *LSCI*

PHYS 1120 – General Physics II. 4 credits (E/SP)

This course is designed to follow PHYS 1110 and to complete the introduction to physics. Topics covered include electromagnetic theory, light and optics, and modern physics. Prerequisite: Completion of PHYS 1110. (3 lect., 3 lab)

PHYS 1310 – College Physics I. 4 credits (E/SP)

This course is the first course in a two-semester sequence which provides a calculus-based introduction to college physics. The course is designed for science and engineering students whose curricula demand a high level of sophistication. Topics covered include Newtonian mechanics, thermodynamics and wave phenomena. Prerequisite: Completion of MATH 2200 or concurrent enrollment in MATH 2200. (3 lect., 3 lab) *LSCI*

PHYS 1320 – College Physics II. 4 credits (E/SP)

This course is a continuation of PHYS 1310. Topics covered include electromagnetic theory, light and optics, and modern physics. Prerequisite: Completion of PHYS 1310. (3 lect., 3 lab)

POLITICAL SCIENCE

POLS 1000 – American & Wyoming Government. 3 credits (E/V)

This introductory course meets the requirements of the Wyoming statute for providing instruction in the principles, processes, and structures of the U.S. and Wyoming constitutions and political systems. (3 lect.) U.S. and Wyoming Constitution POLS

POLS 1006 – Student Government. 1 credit (Max 4)

This course is designed to give student government leaders a basic understanding of the political process while developing parliamentary procedure, leadership, budgetary, and ethical skills. Only students who are elected members of the Student Senate will be allowed to enroll. S/U grading only. (1 lect.)

POLS 1016 – Intro to Political Science. 3 credits (T)

This course is designed to introduce students to the Social Science discipline of Political Science. Political Science is the study of politics, governance, political behaviors and cultures, institutions, and processes. The major sub-disciplines of Political Theory, Political Philosophy, Comparative/World Politics, International Relations, Public Administration, and American Politics are presented. Connections to other social science disciplines such as psychology and sociology are discussed through exploration of the cultural, psychological, sociological dimensions of politics, and political behavior. Monarchy, democracy, theocracy, socialism, communism, dictatorship, and other major political systems and movements, both in terms of political theory and through historical examples from multiple regions and countries are examined. (3 lect.)

POLS 1200 – World Political Cultures. 3 credits (E/CS/G)

The primary objective of this course is to give students an appreciation of non-western political cultures and how these cultures have created different political institutions, practices and worldviews. The course will include three or more case studies of states chosen from non-western regions: the Middle East, East Asia, South Asia, the former Soviet Union, Africa and/or Latin America. (3 lect.) *SOC*

POLS 2000 – Current Issues in American Government. 3 credits (E/CS)

A course designed to complement POLS 1000 American and Wyoming Government. The course seeks to take advantage of current issues in American Government. The following topics are included in the course: foreign and economic policy, the bureaucracy, civil rights and liberties, and Wyoming issues. Other topics of interest may be included. (3 lect.)

POLS 2055 – The Modern Middle East. 3 credits

This course provides a comprehensive introduction to the Middle East, its geography, recent history, politics, and culture. The course will approach the region from both thematic and regional perspectives, including coverage of such topics as Islam, pan-Arabism, nationalism, the Gulf Wars, Israel and Arab-Israeli conflict, the Turkic world, the Gulf States, Iran, the Kurds, and American involvement in the region. (3 lect.)

POLS 2205 – Human Rights Theory & Practice. 3 credits (T)

This course is a treatment of the powerful influence of the concept of human rights upon the historical and contemporary world. It includes the study of theoretical foundations, civil and political rights, social and economic rights, cultural relativism, the effects of globalization, the United Nations, the Universal Declaration of Human Rights, and human rights and foreign policy. (3 lect.)

POLS 2215 – Ethnic Conflict & Genocide. 3 credits

The focus of this course is inter-ethnic and national conflict. Theoretical topics will include issues of identity, race and ethnicity, and nationalism. The course will also address the body of literature on ethnic conflict and conflict resolution. Primary attention in the course will be devoted to the study of tragic ethnic conflict and genocide in the 20th century, including the Holocaust, Soviet deportations and the GULAG system, Bosnia-Herzegovina, and Rwanda. (3 lect.)

POLS 2305 – Topics in World Politics. 1-3 credits (Max 6) (T)

This course provides for detailed study of issues in contemporary world politics. Specific course topics will vary each semester. Topics may include a regional area focus, such as the Middle East or a broader topical focus, such as terrorism. (1-3 lect.)

POLS 2310 – International Relations & World Politics. 3 credits (E/G)

This course is a survey of interactions in the global political arena. The course focuses on classic International Relations theories of national power and war. Specific units of study will address state sovereignty, terrorism, weapons of mass destruction, nonproliferation issues, global democracy, rogue states and failed states, intergovernmental organizations, transnational institutions and non-government organizations, human rights and international law, poverty and international development, environmental issues, and other issues of globalization. (3 lect.) SOC

POLS 2315 – War & International Conflict. 3 credits (T)

This course examines conflict and conflict resolution in the context of international politics. The course will be based on a historical consideration of war, in its various forms, and other forms of conflict in the global political arena. Theories and means of conflict resolution, with an emphasis on the negotiation processes and mechanisms of global governance, will constitute the second major focus of the course. Additionally, a topical theme may be emphasized, such as insurgency/counter-insurgency, nuclear proliferation/non-proliferation, protracted conflicts, state-sponsored terrorism, ethnic conflict, and others. (3 lect.)

POLS 2445 – World Politics Through Film. 3 credits

This course is an introduction to world political issues through the medium of film. The course first studies film as a political tool, i.e. as propaganda, featuring works such as Leni Riefenstahl's *Triumph of the Will*, and Sergei Eisenstein's *Battleship Potemkin*. Next the course focuses on film as an expression of key world political issues such as fascism, communism, democracy, demagoguery, deterrence, ethnic conflict, genocide, and others. Assigned films will be accompanied by examples of the most important texts on each issue. (3 lect.)

POWER SPORTS**PWRS 1500 – Power Sports Maintenance & Tune-up. 3 credits**

This course focuses on motorcycle, ATV, and snow machine maintenance and tune-up procedures. The course covers maintenance procedures such as oil and filter changing, valve adjustment, carburetor synchronization, and timing adjustment for power sports vehicles. Emphasis will be placed on tuning the entire vehicle to achieve maximum performance. The course will include instruction in special tool use, interpretation of factory manuals, manipulation of parts and pieces on vehicles, proper shop documentation of repairs, and safety precautions. The student will be required to provide a project power sports vehicle, hand tools, and personal safety equipment. (1 lect., 2 lab)

PWRS 1510 – 2-Cycle Fundamentals. 3 credits

This course is a basic course in the theory of engine operation, diagnosis of problems, minor repairs, and overhaul procedures relating to 2-cycle power sports engines. The focus of the course is the application of hands-on skills relating to diagnosis and repair of single and multi-cylinder 2-cycle engines, crankshaft repair on single cylinder engines, and top/bottom end repair procedures on single and multi-cylinder engines. (1 lect., 4 lab)

PWRS 1520 – 4-Cycle Engine Fundamentals. 3 credits

This is a basic course in the theory of engine operation, diagnosis of problems, minor repairs, and overhaul procedures relating to 4-cycle powersports engines. The focus of this course is the application of hands-on skills relating to diagnosis and repair of single and multi-cylinder 4-cycle engines, crankshaft repair on single cylinder engines, and top end repair procedures on single and multi-cylinder engines. (1 lect., 4 lab)

PROFESSIONAL DEVELOPMENT**PFDV 1500 – Managing Career Development. 3 credits**

Learning to conduct a career search and to identify career pathways has become an important part of every student's education. When students begin this exploration, they gain a developmental understanding of their own personal strengths and weaknesses, the ever-evolving requirements of the workplace, and the relationship of lifelong learning to career success. This course focuses on career planning, job search techniques, and career management. The course will include topics of self-assessment, personal development, the work environment, career path alternatives, sources of job information, the process of job application from writing resumes and letters to creating portfolios and interviewing, and strategies for successful career management. (3 lect.)

PFDV 1551 – Leadership 1. 1-3 credits (Max 3)

This course provides an introduction to professional leadership. Topics may include leadership qualities, styles and strategies, motivation, mentoring, communication, and management. A maximum of three credits may be applied toward graduation. (1-3 lect.)

PFDV 1552 – Leadership 2. 1-3 credits (Max 3)

This course is a continuation of PFDV 1551 and provides additional training in professional leadership. Topics may include leadership qualities, styles and strategies, motivation, mentoring, communication, and management. A maximum of three credits may be applied toward graduation. (1-3 lect.)

PFDV 1555 – Team Building Challenge. 1 credit

This course demonstrates to students the advantages that a team has over an individual in productivity, solving problems, and achieving goals. The students' abilities to communicate, organize team responsibilities, work together to solve problems, and achieve goals will be put to the test on a challenge course. (1 lect.)

PSYCHOLOGY**PSYC 1000 – General Psychology. 4 credits (E/CS)**

This course will study the neurological basis of behavior, motivation, emotions, perception, learning and thinking, individual differences, personality development, mental health, and the treatment of emotional illness. (4 lect.) SOC

PSYC 1015 – Psychology of Sexuality. 1 credit (T)

This course will answer some of the universal questions we have about sex, particularly gender expectations during courting and mating, the physiological responses that happen during sex, how physical and psychological aspects interfere with sex, and historical research about sex. (1 lect.)

PSYC 1025 – Test Your Personality. 1 credit (T)

This personality-primer course provides an avenue for students to determine underlying characteristics of themselves. A variety of standard and unorthodox tests will help provide students with questions psychologists are now trying to answer about personality: Where did you get your personality? Have you always been “you” or did you become “you” through environmental factors? Does your personality change under stress, or is there a core personality that carries you through all life’s situations? (1 lect.)

PSYC 1070 – Day in the Life of Your Brain. 1 credit (T)

Day in the Life of Your Brain is an entry-level neurobiological course designed for students who want a rudimentary understanding of brain functions as applied to everyday life. This “brain appreciation” course overlaps and goes beyond the neurology topics covered in PSYC 1000. No previous psychology background is necessary, although PSYC 1000 will be helpful. Course delivery methods will include hands on experiments to illustrate brain functions, film clips, interactive computer exercises, and projects. (1 lect.)

PSYC 1080 – Your Brain on Music. 1 credit (T)

The course is designed to be a brief encounter with the physiological and psychological impacts of music and an analysis of the basic components of music in psychological terms. It helps to answer the following questions: Why music is so emotionally compelling? Why is rhythm physically arousing? What has been the evolutionary role of music in the social development of humans? How does a culture determines what you hear? (1 lect.)

PSYC 1090 – Domestic Animal Psychology. 1 credit (T)

This course examines the many facets of the created when we develop relationships with the animals that live and work with us. It explores the psychology of both human and animal in this interaction. (1 lect.)

PSYC 1205 – The Psychology of Morality. 1 credit (T)

Psychology of Morality is an entry-level course for exploring the neurological and developmental processes of moral development through the life span. The challenges of each age group are discussed with accompanying activities: toddlers and violence; youth and intention-al/accidental distinctions; teenagers and identification of moral consequences; adults and “the defining moment,” forgiveness, and the lure of power. (1 lect.)

PSYC 1210 – Consciousness & Altered States. 1 credit (T)

This course explores various states of consciousness, including hypnotism, meditation and altered states, chemically induced altered states, the paranormal and out-of-body experiences, and ESP. The brain-mind controversies and neurological basis for these states are the foundation for these discussions and activities. (1 lect.)

PSYC 1250 – Human Potential Seminar. 1 credit (T)

This is a personal group-based workshop designed to help students become aware of their individual potential. The activities of the course are structured to help students become more self-determining, self-motivating and develop greater self-worth. (1 lect.)

PSYC 1380 – The Psychology of Death. 1 credit (T)

Death is examined as both a psychological and physical process. Topics include and are not limited to personal attitudes and myths, cultural and religious rituals, death as a choice, death as entertainment in the media, superstitions, notions of an afterlife, near-death experiences, the evolutionary need for death, and euthanasia. (1 lect.)

PSYC 2000 – Research Psychological Methods. 4 credits (E/WB)

This course introduces the student to some of the methods of psychological inquiry. Students will study various research strategies from naturalistic observation to experiments. This course is writing intensive and requires written/oral reports. Prerequisite: Completion of PSYC 1000. (3 lect., 2 lab)

PSYC 2080 – Biological Psychology. 3 credits (TE)

This course introduces biological bases of behavior. It includes ethnology and comparative behavior, psychobiological development, physiological and sensory mechanisms of behavior, and evolutionary and behavioral genetics. The course presents basic structural and functional properties of the nervous system. Prerequisites: PSYC 1000 and BIOL 1010. (3 lect.)

PSYC 2100 – Psychology of Personality. 3 credits (T)

This class is designed to introduce the student to the field of personality. The successful student will develop an understanding of the principles, strengths and weaknesses of the major personality theories. Particular attention is paid to the impact that society and culture have on the definitions and expression of personality. Prerequisite: Completion of PSYC 1000 (3 lect.)

PSYC 2110 – Cross-Cultural Psychology. 3 credits (T)

This course explores the basic tenets of psychology—sensation and perception, intelligence, human development, emotion, motivation, social perception and interaction, and mental disorder—from a cross-cultural perspective. Experiential exercises, videos, lectures, small group discussions, and interactive software are utilized. (3 lect.)

PSYC 2210 – Drugs & Behavior. 3 credits (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 the effects of drugs. Behavioral, social, historical, and medical aspects of each major class of psychoactive drugs will be discussed. (3 lect.)

PSYC 2300 – Developmental Psychology. 3 credits (E)

The development and behavior of children from conception to adolescence, with emphasis on the major roles played by maturation and learning. Prerequisite: Completion of four credit hours of psychology or instructor’s permission. (3 lect.)

PSYC 2325 – Marriage & Family. 3 credits (T)

Socio-psychological factors during infancy, childhood, and adolescence which are important to marriage adjustment. Discussion of dating, courtship, engagement, honeymoon, marriage, marital adjustment and family. Special consideration is given to changes in family structure and function, past to present. Prerequisite: Completion of PSYC 1000 and SOC 1000 or instructor’s permission. (3 lect.)

PSYC 2340 – Intro to Abnormal Psychology. 3 credits (E)

This course is a study of the major types of abnormal behavior, including anxiety disorders, psychophysiological disorders, personality disorders, affective disorders, schizophrenic disorders, brain disorders, substance disorders, and the disorders of childhood origin. Divergent theoretical perspectives are utilized in examining the assessment, treatment, and prevention of maladaptive behavior. Prerequisite: Completion of PSYC 1000 or instructor's permission. (3 lect.)

PSYC 2360 – Anxiety & Stress Disorders. 3 credits (E)

This course explores the vast array of fear-related mental illnesses. Students will discover how these disorders stem from an overactive limbic system, and how cognitive functions are impaired by fear, trauma and stress. Prerequisite: Completion of PSYC 1000 or instructor's permission. (3 lect.)

PSYC 2370 – Consciousness 3 credits (T)

This course will provide students with the opportunity to explore aspects of human awareness on an in-depth level, emphasizing areas of contemporary research often omitted from general psychology courses. Prerequisite: Completion of PSYC 1000 is recommended but not required. (3 lect.)

PSYC 2380 – Social Psychology II/I. 3 credits (E)

The psychology of human interaction-socialization, attitudes, group processes, communications, and social influences are covered. Prerequisite: Completion of four credit hours in psychology or instructor's permission. (3 lect.)

RADIO, TV, FILM, OR COMMUNICATION**CO/M 1000 – Intro to Mass Media. 3 credits (E/CS)**

This course surveys the communication process and mass media as they function within the social structure. It studies how society has affected mass media and how mass media has affected society, and includes contemporary and traditional views of communication within a historical perspective. (3 lect.)

CO/M 1480 – Media Arts. 3 credits (Max 9)

In this course, the student will study and analyze specialized media arts topics related to film (Westerns, Sci-Fi, Horror, etc.), TV (Talk Shows, Advertisements, Reality TV, Three-Camera Comedies, etc.), and radio (Radio Dramas, Shock Jocks, Talk Radio, etc.). A student may earn up to three credits in any one semester but may apply no more than nine credits toward graduation. The specific topic will be named after the colon. (1-3 lect.)

CO/M 2000 – Intro to Radio Broadcasting. 3 credits (T)

This course is designed to introduce the student to different facets of everyday business at a radio station. The course will focus on the progression of the radio business. Topics will include terminology, production, sales, and future trends. On-air presentation, including operation and voice tracking, will be discussed and demonstrated. The course will culminate with a DJ shift which includes on-air presentation, operation, and voice tracking. (3 lect.)

CO/M 2005 – Public Address Announcing. 1 credit

This course will focus on the basics of Public Address Announcing for a variety of events. Students will identify different scenarios of PA, then create and organize a plan for announcing. (1 lect.)

CO/M 2040 – Intro to TV Broadcasting. 3 credits (T)

This survey course focuses on the development of operations and programming practices in TV broadcasting/telecommunications. This course covers early practices of broadcasting facilities as well as current methods and trends. Audience research, social aspects of telecommunications, and some global roles of broadcasting are discussed. (3 lect.)

CO/M 2055 – Intro to Film Production. 3 credits

This course introduces students to the people involved in a film production crew. Students will explore the range of careers in film production as well as the entertainment industry. The course will examine the demands and creative aspects of the jobs within these careers. Students explore employment opportunities in the career of film production. The course focuses on the people behind the scenes in film production and their department classifications. Corresponding positions in television, theatre, concerts, trade shows and events will also be covered. (3 lect.)

CO/M 2170 – Broadcast Writing. 3 credits (E)

This course concentrates on the basic skills and practice of various media planning and writing. Emphasis will be on broadcast journalism program planning. Students are introduced to scripting techniques used in various types of program formats. Prerequisite: Completion of ENGL 0620 or concurrent enrollment or test in ENGL 1010. (3 lect.)

CO/M 2175 – Film Screenwriting I. 3 credits

This course focuses on the fundamentals of storytelling within the screenplay format; and provides students with constructive analysis and support as they take a script through the screenwriting process to write the first 60 pages of a feature length screenplay. The intersection of story structure, theme, character, tension, and conflict is examined through detailed script analysis and workshop style feedback sessions. Students are encouraged to tell their stories visually and not rely solely on dialogue to tell the story. Students will read one (1) screenwriting book and two (2) Hollywood produced screenplays and write analyses of all three (3). (3 lect.)

CO/M 2195 – Cinematography. 3 credits (T)

This course focuses on the fundamentals of cinematography in the film production realm. Students will analyze and apply the concepts of advanced cinematography; specifically the use of cameras and lighting. Innovative camera techniques as well as progressive lighting concepts will be studied and applied to various film projects. The management and efficient application of camera, electrical, and grip departments will complete the study of the motion picture cinematographer. Prerequisite: Completion of CO/M 2458. (3 lect.)

CO/M 2200 – Electronic Media Production. 3 credits (E)

This course is an introduction to the fundamentals of electronic media production. The basic principles of creative video production will be explored while learning about the equipment and processes of electronic media. The course will also include an analysis of modern video culture. (1 lect., 4 lab) ARTS

CO/M 2202 – Radio Production. 3 credits

In this course students will focus on the practical application of using various radio production elements; and the proper use and care of radio production equipment, such as an audio console, recording/playback equipment, and a digital editor. In addition, students apply different methods of planning, scripting, and editing radio audio commercial productions. Students should expect to spend a minimum of four hours per week participating in radio production activities for completion of on-air assignments. (3 lect.)

CO/M 2205 – Survey of Sports Broadcasting. 3 credits (T)

This survey course is designed to introduce students to the basic techniques applied in broadcasting a sporting event. The course includes an overview of game preparations, pointers for on-air play-by-play broadcasts, game previews and wraps, story writing with sound, and stat-keeping methods. Students are required to attend, observe, and produce sporting events broadcasts. Prerequisite: CO/M 2202. (3 lect.)

CO/M 2235 (CO/M 2220) – Television Operations I. 4 credits

This is an introductory television production operations course. This course explores the functions of a television production system, the major pieces of television production equipment and their operation, and the functions of production personnel. Students will be provided opportunities for hand-on training in various areas of operation of television production equipment. (2 lect., 4 lab)

CO/M 2280 – Documentary II. 3 credits (T)

This course focuses on developing long-form documentaries. Skills developed in previous television courses are amplified, enhanced, and refined through the development of ideas, storytelling, and a greater sophistication in all areas of electronic field production. Prerequisite: Completion of CO/M 2465. (3 lect.)

CO/M 2451 – Broadcast Speech & Performance. 3 credits

This course is a concentrated study of the various types of broadcast speech and performance. Improving the speaking marking and reading copy, phonetics of vocal sound and formation, and interviewing skills used for audio and video purposes is emphasized. Practical application of performance is stressed, including playing to the microphone and performing before a camera. (3 lect.)

CO/M 2455 – Contemporary Camera Techniques. 3 credits (T)

This course is designed to develop the students' skills in using a single camera for television field production. The course is an overview of various field production scenarios with emphasis placed on the use of the camera, lighting, sound, and nonlinear editing techniques. This is a field-based course in which students will be required to shoot television productions outside of a traditional classroom setting. (3 lect.)

CO/M 2456 – Editing. 3 credits

This course introduces students to the video editing process. The course focuses on teaching students the process of postproduction in the television and film industry. Video editing software is used to prepare students for the basic process of storytelling, introducing techniques in video, audio, graphics and effects editing. The psychological and emotional effects of editing on the overall story are discussed. Classes are supplemented with individual consultations at the computer. (3 lect.)

CO/M 2457 – Film Production I. 4 credits

This course is designed to introduce students to the preproduction, production, and postproduction process of creating a moving image. The course focuses on the basic skills of a production crew including on-set experience along with hands-on-training of the nuts-and-bolts aspects of filmmaking. Basic postproduction skills include using digital editing software that incorporates shot/reverse, spatial, graphics, parallel, temporal, rhythmic, continuity and transition editing techniques into the student's work. The student will demonstrate the role of each key member in a production crew. (3 lect. 2 lab)

CO/M 2458 – Film Production II. 4 credits

This course is an advanced exploration of the art of filmmaking. Students hone their skills by preparing a number of scenes for in-class presentations. Film Production II is designed to build upon basic skills learned in Film Production I. Students apply advanced techniques in the art of the preproduction, production, and postproduction process including advanced on-set experience along with hands-on-training in all aspects of filmmaking. Film Production II students experience advanced training in various film crew jobs that continue to develop their ability to work on a large production. Advanced postproduction skills include using digital editing software integrating advanced techniques in shot/reverse editing, spatial, graphics, parallel, temporal, rhythmic, continuity, and transition editing techniques. Prerequisite: Completion of CO/M 2457. (3 lect. 2 lab)

CO/M 2461 – Directing for Film. 3 credits

This course introduces students to the language and craft of film directing. Students apply techniques to communicate and collaborate effectively with their actors and crew. Students demonstrate unique ways that a director approaches visual storytelling and how the director manages the task of staging scenes, and moving actors within the frame. (3 lect.)

CO/M 2462 – Advanced Reporting. 3 credits

The course is designed to build upon the radio student's basic knowledge of on-air reporting of news and feature stories. Emphasis is placed on spelling, accuracy, radio reporting techniques, AP (Associated Press) style, and news judgment. Students will write, produce, and broadcast a weekly news program to be aired on Rustler Radio. Prerequisite: Completion of CO/M 2170. (3 lect.)

CO/M 2463 – Film Screenwriting II. 3 credits (T)

This course focuses on the fundamentals of storytelling within the screenplay format; and provides students with constructive analysis and support as they take a script through the screenwriting process to write the final pages of a feature length screenplay, to finish the script began in Film Screenwriting I. The intersection of story structure, theme, character, tension, and conflict is examined through detailed script analysis and workshop style feedback sessions. Students are encouraged to tell their stories visually and not rely solely on dialogue to tell the story. Film Screenwriting II students are also expected to model constructive criticism and provide valuable feedback based on knowledge gained in Film Screenwriting I. Students will read one (1) screenwriting book and two (2) Hollywood produced screenplays and write analyses of all three (3). Prerequisite: Completion of CO/M 2175. (3 lect.)

CO/M 2465 – Documentary I. 3 credits (T)

This course focuses on electronic newsgathering, documentaries, sports shows, and creating fictional narratives. It stresses script analysis, working effectively with the community, classmates, and with actors. This course highlights effective lighting design and organizational skills and processes commonly used in pre-production, production and post-production. Skills developed in previous TV courses are amplified, enhanced, and refined through a combination of in-class exercises and outside projects. Emphasis is placed on the development of ideas, storytelling, and greater sophistication in all areas of electronic field production. Prerequisite: CO/M 2245, CO/M 2455. (3 lect.)

CO/M 2970 – Radio Practicum. 3 credits (Max 12) (T)

In this course students are introduced to broadcasting's day-to-day operations and applications, such as show prep, planning, preparing, delivery, scripting, and performance and operational standards. Students are expected to satisfy practicum requirements by assuming KCWC-FM station responsibilities. (3 lect.)

CO/M 2971 – Advanced Radio & Marketing. 3 credits

This course is designed to build on previous levels of Radio Practicum experience by adding in a marketing component. A difference between commercial radio advertising and non-commercial radio underwriting is stressed. Styles of ad spots, use of radio rate cards, sales techniques, planning and implementing a commercial or underwriting campaign for radio station are covered in the course. Student's non-commercial advertisement packages will be aired on CWC 88.1 FM station. Student's commercial advertisement packages will be web streamed on www.rustlerradio.com. Prerequisite: Completion of CO/M 2970. (3 lect.)

RAIL CAR REPAIR**RRTK 1510 – Rail Car Repair I. 12 credits**

This course is designed to prepare students in welding for the rail car repair industry. The focus of this course is to enhance the student's skills and prepare the student to pass welding standards for rail car repair. This course will prepare the students for ASNT SNT-TC-1A non-destructive testing in the rail car industry. In addition to developing the student's welding skills, this course will address other relevant topics in the railcar repair industry as follows: Rail Car Coating Preparation, AAR Manual of Standards and Recommended Practices for Rail Car Repair, Federal Railroad Association Regulations, Occupational Safety and Health Administration Regulations, etc. A student considering enrolling in this course must possess the ability to lift and handle up to 75 pounds of weight without assistance, pass drug-screening tests, and possess the ability to work in a confined space (not claustrophobic). Before enrolling in the course, students must be approved by the CWC Customized Training Department. (8 lect., 8 lab)

RANGE ECOLOGY/WATER MANAGEMENT- SEE AGRICULTURE**READING- See English****RELIGION****RELI 1000 – Intro to Religion. 3 credits (E/CH/G)**

This course introduces students to the study of religion and theological inquiry. Through a variety of sources, students explore the meaning of religion in personal and cultural life and examine different perceptions of the sacred. Students learn to use critical reflection on religion and its place in culture. The objectives of the course are to develop knowledge and understanding of what religious worldview is, and to develop the skill to articulate and evaluate various worldviews of religion, including their own. (3 lect.) *HUM*

RELI 2225 – History of Christianity. 3 credits (E)

This course is a survey of Christianity from Jesus and Paul to today. Political, social, and theological issues are stressed. Christian history is studied through readings, lecture, video, and some internet resources. Special emphasis is given to events in Western Europe and the United States. Students earning credit in RELI 2225 may not earn credit in HIST 2225. (3 lect.) *HUM*

RELI 2320 – History of Islam. 3 credits (E/CH/G)

This course will focus on the origins of Islam and its early formation, its growth and spread across the world, and its intellectual, spiritual and historical character. Time will also be spent on the formation of Islam in the modern world and how that impacts the views and actions of its members. Students earning credit in RELI 2320 may not earn credit in HIST 2320. (3 lect.) *HUM*

SHOSHONE- See Languages**SOCIOLOGY****SOC 1000 – Sociological Principles. 3 credits (E/CS)**

This course examines basic sociological concepts and methods such as socialization, norms, social differentiation, groups, institutions, social change, collective behavior, and deviation. (3 lect.) *SOC*

SOC 1100 – Social Problems. 3 credits (E)

This course explores and applies basic sociological concepts and methods of identifying, defining and analyzing selected social problems and issues, such as inequality in its various manifestations, crime and violence, alcohol and drug abuse, violence, war and terrorism. (3 lect.) *SOC*

SOC 1380 – Death & Dying. 3 credits

This course explores the issues and problems associated with our contemporary encounter with death. As the manner, place and circumstances of death have changed, so have our attitudes toward death and dying. Death will be viewed from the perspectives of literature, law, medicine, psychology, religion, secular culture and business. (3 lect.)

SOC 2335 – Victims of Violence. 3 credits (T)

This course focuses on the issues of domestic assault, family violence, child abuse and neglect, sexual assault, and other victims of violence. Dynamics of the various forms of abuse are examined. How abuse affects people psychologically and how people heal from the effects of abuse are also examined. Legal issues are explored as well. (3 lect.)

SOWK 2000 – Intro to Social Work. 3 credits (E)

This is an introductory course required of all Social Work students, but also appropriate for students interested in the field of Human Services. The course is designed to present the profession of social work as well as provide an understanding of social welfare programs as part of our country's social system. (3 lect.)

SPANISH- See Languages**SPEECH-LANGUAGE PATHOLOGY- See Languages****TELEVISION- See Radio, TV, Film or Communication****THEATER****CO/M 2470 – Cinema History. 3 credits (E)**

This course is designed to enhance the student's understanding, appreciation, and critical perceptions of cinema as an art form and cultural force. A historical survey approach is used to trace the artistic and technical development of cinema from its origins to today. Significant world films representing key historical periods, styles and national movements will be screened in class and analyzed within their historical and cultural contexts. (2 lect., 2 lab) *HUM*



THEA 1000 – Intro to Theater. 3 credits (E/CA)

This theater appreciation course is intended for students with little or no theater experience. Through hands-on creative projects students will explore the processes of acting, directing, designing, and playwriting while examining historical and contemporary plays and production styles (2 lect., 2 lab) **ARTS**

THEA 1015 – Scene Painting I. 3 credits (T)

This course introduces and explores a variety of methods and techniques used in painting scenery for theater, television and film. The student will learn scumbling, stenciling, sponge and brush techniques. Projects include painting bricks, ashlar, wood grain, and marble. The student will also learn several trompe l'oeil techniques. (3 lect.) **ARTS**

THEA 1017 – Community Theatre. 1 credit (Max 4)

This is a course for community members who are participating in a CWC theatre production. Students will acquire practical experience in the rehearsal and performance process.(2 lab)

THEA 1040 – Production Crew I. .5 credit (E)

This course encompasses practical training in backstage production. The student will learn job duties and headset etiquette and will participate in being a member of the crew for a theater production at CWC. Crew responsibilities might include, but are not limited to, assistant stage manager, light board operator, sound board operator, stagehand, properties master, costume crew, and electrician. (.5 lect.)

THEA 1100 – Acting I. 3 credits (E/CA)

This course is designed for beginning actors with little or no experience. Students are given a foundation in the Stanislavski system of acting with an emphasis on the inner processes of the actor. Students will rehearse and perform a variety of realistic acting exercises. (3 lect.) **ARTS**

THEA 1200 – Intro to Stage Design. 3 credits (E)

This course introduces and explores visual aesthetic principles as they relate to the various aspects of stage design. Projects are designed to give the student an understanding of the use of line, color and composition as it relates to stage design. The student will explore the process of producing a design including research, conceptualization and presentation of the design. Studio projects in scene, lighting and costume design complement lectures. (3 lect.)

THEA 1401 – Dance & Movement. 1 credit (E/CA)

This course emphasizes the fundamentals of dance for the stage. It focuses on technique, terminology, and the execution of the basic steps used to choreograph stage productions, as well as the discovery of movement in space and time. The class will attempt to touch on many forms of dance that could be used on the stage, such as jazz, modern and musical theater. This course will satisfy one hour of the physical education activity required at CWC. The transferability of the credit as a P.E. activity is the responsibility of the accepting institution. Course may be taken as THEA 1401 or PEAC 1401, but a maximum of one credit may be earned. (2 lab) **PEAC**

THEA 1410 – Ballet I/I.**1 credit (E/CA)**

This course introduces the principles and practices of the classical art form of ballet. This course will satisfy one hour of the physical education activity required at CWC. The transferability of the credit as a P.E. activity is the responsibility of the accepting institution. Course may be taken as THEA 1410 or PEAC 1410, but a maximum of only one credit may be earned. (2 lab) **PEAC**

THEA 1420 – Ballet I/II.**1 credit (E/CA)**

Ballet I/II expands upon the principles and practices of the classical art form of ballet. This course will satisfy one hour of the physical education activity required at CWC. The transferability of the credit as a P.E. activity is the responsibility of the accepting institution. Course may be taken as THEA 1420 or PEAC 1420, but a maximum of only one credit may be earned. (2 lab) **PEAC**

THEA 1430 – Modern Dance I.**1 credit (E/CA)**

A beginning course in modern dance including a survey of contemporary dance history from Isadora Duncan to the present, with experience in basic dance technique, choreography and improvisation. This course will satisfy one hour of the physical education activity required at CWC. The transferability of the credit as a P.E. activity is the responsibility of the accepting institution. Course may be taken as THEA 1430 or PEAC 1431, but a maximum of only one credit may be earned. (2 lab) **PEAC**

THEA 1440 – Modern Dance II.**1 credit (E/CA)**

The second semester of Modern Dance will include more technique and choreography for the continuing dance student. This course will satisfy one hour of the physical education activity required at CWC. The transferability of the credit as a P.E. activity is the responsibility of the accepting institution. Course may be taken as THEA 1440 or PEAC 1441, but a maximum of only one credit may be earned. Prerequisite: Completion of THEA 1430 or PEAC 1431. (2 lab) **PEAC**

THEA 1450 – Beginning Tap Dance.**1 credit (E)**

This class explores basic tap techniques and related principles of tap dance composition. This course will satisfy one hour of the physical education activity required at CWC. The transferability of the credit as a P.E. activity is the responsibility of the accepting institution. Course may be taken as THEA 1450 or PEAC 1450, but a maximum of only one credit may be earned. (2 lab) **PEAC**

THEA 2005 – Creative Dramatics.**3 credits (E)**

This is a course in the use of creative dramatics as an enrichment and teaching tool. It is focused for elementary and secondary educators, recreation directors, preschool instructors, and all who work in social services. Creative dramatics will be examined as a performance art that is valuable in its own right as well as a means for accomplishing a variety of educational and child developmental objectives. This course has been designed in accordance with the Wyoming State and National Standards for the Arts. (3 lect.) **ARTS**

THEA 2010 – Theatrical Backgrounds Drama I.**3 credits (E)**

This course provides a foundation in western drama from classical Greece through the Renaissance. Selected plays will be examined within their historical and cultural contexts and in relation to developments in theater architecture, acting, directing, and design. Prerequisite: Completion of ENGL 1010. (3 lect.) **HUM**

THEA 2015 – Scene Painting II.**3 credits (T)**

This course explores historical and contemporary trends and techniques used in painting scenery for theater, television and film. It is an in depth study designed to develop advanced techniques in scene painting and apply them to various projects. Treatment of form and color; current concepts and developments in scene painting and an understanding of the historical background of this art form will be explored. Projects include: bricks, stone, damask wallpaper, drapery and sign painting. Prerequisite: Completion of THEA 1015 (3 lect.)

THEA 2020 – Theatrical Backgrounds Drama II.**3 credits (E)**

This course provides a foundation in western drama from the Seventeenth century through the Post-modern period. Selected plays will be examined within their historical and cultural contexts and in relation to developments in theater architecture, acting, directing, and design. Prerequisite: Completion of ENGL 1010. (3 lect.) **HUM**

THEA 2030 – Beginning Playwriting.**2 credits (T)**

This course introduces students to the craft of playwriting through the analysis of plays, the completion of writing exercises, and the writing and revising of a one-act play. Selected scripts will be produced by the Theatre Department. (2 Lect.)

THEA 2040 – Production Crew II.**.5 credit (E)**

This course increases practical training in backstage production. The student will learn advanced job duties. Students in this course will participate in being a member of the crew for a theater production at CWC as well as mentor students in THEA 1040. Crew responsibilities might include, but are not limited to assistant stage manager, properties master, wardrobe manager, and master electrician. Prerequisite: Completion of THEA 1040. (.5 lect.)

THEA 2050 – Theater Practice.**1 credit (Max 4) (E)**

This is an open-entry/open-exit course with supervised practical training in technical production through participation in CWC theater productions. Prerequisite: Instructor's permission. One credit per semester with four credits in Theater Practice applicable towards graduation. (3 lab)

THEA 2055 – Rehearsal & Performance.**1 credit (Max 3)**

This is an open entry/open exit course. Students must be cast in a CWC production to enroll. Students will acquire practical experience in the rehearsal process and the creation of a role. Special emphasis is placed on professional conduct. (2 lab)

THEA 2070 – Touring.**2 credits (Max 4)**

This is an open entry/open exit course. This class is designed for students who participate in touring theater productions. As such, the class is a laboratory experience in total play production. Prerequisites: Instructor's permission and be cast in a current production. Prerequisite: Instructor permission required. (1 lect. 2 lab)

THEA 2100 – Acting II.**3 credits (T)**

This course emphasizes the actor's voice and movement in character development. The course is based on varied character and scene study work as well as improvisation and textual analysis. Prerequisite: Completion of THEA 1100 or instructor's permission. (3 lect.)

COURSE DESCRIPTIONS

THEA 2135 – Voice & Diction. 1 credit

This course is a practical introduction to methods and principles aimed at developing comfortable, efficient, and effective use of the voice for stage performance. Coursework will focus on breath support, relaxation, vocal health, projection, enunciation, expressiveness, vocal variety and flexibility. In addition, students will begin work on eliminating regional dialects and vocal defects such as breathiness, harshness, and nasality, with the goal of attaining Standard American Speech. This course will be helpful to anyone who engages in public speaking. (1 lect.)

THEA 2141 – Professional Practices in Theatre. 1 credit (T)

This course introduces students to the business of theater. It is the study and practice of the techniques and skills required to find a job in theater or to advance theater education. Students will learn about unions, career options and job requirements and will develop a resume, headshot, cover letter and prepare a technical portfolio. This course will prepare students to present their work and themselves in a professional manner when interviewing for advanced education or jobs in the theater. (1 lect.) *CLPE*

THEA 2145 – Intro to Theatrical Costuming. 3 credits (E)

This one semester course in costume construction emphasizes the development of decision-making skills in selection, use, and evaluation of materials and techniques for costume construction. Students will be involved in actual hands-on experience with the techniques and gain knowledge of the use of machines and textiles. (2 lect., 1 lab)

THEA 2150 – Drafting for Design. 3 credits (E)

This course introduces design and technical students to the fundamentals of hand drafting for theater design. The student will learn basic hand drafting techniques, industry approved standards, how to read scale plans and how to properly arrange a drafting package. (3 lect.)

THEA 2160 (1160) – Stage Make-up. 3 credits (E)

This is a beginning course designed to instruct students in the correct use of makeup for the stage. This will include 2-dimensional, 3-dimensional, and prosthetics. It will be offered in spring of alternate years. (3 lect.)

THEA 2220 – Stagecraft. 3 credits (E)

This is a concentrated course in the theories and techniques of planning, building and handling stage scenery, lighting, and properties. It includes practical laboratory work with CWC productions. (2 lect., 2 lab)

THEA 2230 – Intro to Stage Lighting. 3 credits (T)

This course is designed to give the student a basic knowledge and understanding of electricity, lighting for the stage, color use, instrument use and maintenance, light board operation, as well as hanging, cabling and focusing a show. The course uses formal lectures, group discussions, a computer-based virtual light lab and practical lab sessions to cover the material. (3 lect.)

THEA 2240 – Stage Production. 3 credits (T)

This course introduces students to the basic stage production techniques in numerous areas, including, but not limited to costume construction, property design and construction, scenic painting, upholstery, and lighting instrument repair and maintenance. (3 lect.)

THEA 2255 – Performance Studies. 3 credits (T)

This course provides experienced actors the opportunity to work in-depth in several acting styles and to develop specific performance skills. Normally broken down into three five-week units, each unit will focus on a different style or skill. Topics may include Shakespeare, musical theater performance, dialects, improvisation, and Commedia dell'arte. Prerequisite: Completion of THEA 1100. (3 lect.)

THEA 2310 – Auditioning. 1 credit (T)

This course will explore the skills and techniques used in auditioning and interviewing for the theater. The course is designed primarily for students interested in pursuing the performing arts as a career. Audition material will be drawn from the Musical Theater, Theater and Film. (1 lab)

THEA 2431 – Advanced Modern Dance. 1 credit

The third semester of Modern Dance will include advanced technique and emphasis on student choreography and performance. (2 lab)

THEA 2470 – Directing Practicum. 1 credit (T)

This course provides students with guided practice in the basic skills of directing for the stage. Through the production of a one-act play, students will learn the fundamentals of play selection, research and analysis, developing a ground plan, casting, creating a rehearsal schedule, blocking, and working with actors. Prerequisite: Completion of THEA 1100. (1 lect.)

UNIVERSITY STUDIES

UNST 1000 – Orientation to College. 3 credits (T)

This course will provide students with the opportunity to take responsibility for their education and give them specific tools to be successful. This course will enable students to identify resources, policies, and career planning tools that will help them during their college career. Additionally, this course will help students understand their learning styles, CWC policies, and personal goals. (3 lect.) *UNST*

UNST 1005 – Freshman Seminar. 1 credit (T)

This course will provide students with the opportunity to take responsibility for their education and give them specific tools to be successful. It is designed to help students acclimate to college. (1 lect.) *UNST*

UNST 1010 – Intro to Online Learning. .5 credit (T)

This course provides students with practical experiences in an online learning environment, including communication strategies, identifying available college resources/tools for success, organization and time management skills, and familiarization with a learning management system. It is designed to help students acclimate to online learning. (.5 lect)

VOCATIONAL EXPLORATION

TECH 1500 – Vocational Exploring I. 3 credits

This exploratory course provides students an opportunity to sample coursework in various industrial/trade areas in CWC's Industrial Technology Department. Students are encouraged to select a program of study based on their experiences in this course. The course is made up of three units. Each unit is five weeks in length and is designed to provide students with useful skills and an overview of a career choice. (1 lect., 2 lab)

WELDING**WELD 1500 – Welding Fundamentals. 2 credits**

This is an introductory course wherein various careers in welding and major welding processes are explored. This course includes the exploration of various welding careers, characteristics of the successful welder, safety, and the history of welding. The various welding processes used in industry today, steel making, metallurgy, and how heat affects metal during the welding process are examined and demonstrated. (2 lect.)

WELD 1550 – Occupational Safety & Health. 2 credits

This course is an introduction to industrial safety and health and emphasizes PPE (personal protective equipment), chemical safety, tool safety, safe materials handling, machine safety, electrical safety, basic fire protection, health protection, and safe work practices. OSHA (Occupational Safety and Health Administration), MSHA (Mine Safety and Health Administration), and other regulations, as related to various occupational hazards, are also discussed. (2 lect.)

WELD 1610 (WELD 1780) – Basic GMAW (M.I.G). 2 credits

This course will introduce the student to the theory and operation of the GMAW welding process. Welds will consist of solid wire containing 25 percent carbon dioxide and 75 percent argon shielding gas. This course will introduce basic welding procedures required to produce quality welds. This course would be ideal for those seeking a basic knowledge and understanding of the GMAW process for various applications such as automotive, art or WELD 2610 Ornamental Iron Works. (1 lect., 2 lab)

WELD 1650 (WELD 1660) – Print Reading & Welding Symbols. 3 credits

This course introduces the basics for prints and progresses to a more advanced interpretation of welding symbols. American Welding Society (AWS) standards demonstrated on engineering drawings will be introduced so the communication between designer, welder, and fitter are effective. This course includes practical application of measuring tools, print layout, and steel usage. (3 lect.)

WELD 1700 – General Welding. 4 credits

This course is an introduction to oxyacetylene brazing (OFZB), welding (OFW), cutting (OFC), and Shielded Metal Arc Welding (SMAW). Students will learn and practice basic arc welding and oxy-fuel cutting techniques including electrode selection and proper usage. All welding, manual oxy-fuel cutting, and plasma cutting will be done on metal 1/8" sheet metal up to 1" plate. An introduction to the power source and the concepts involved for polarity settings is also discussed. Air Carbon Arc gouging and cutting will be introduced for maintenance purposes. (2 lect., 4 lab)

WELD 1760 – Advanced Shielded Metal Arc Welding (SMAW). 4 credits

This course will provide the students with a technical understanding of workplace safety, power supplies, and classification and selection. Topics of study include the use of 5/32 E6010 and 5/32 E7018 on 1" plate lap joints and single V-groove welds with backup in horizontal, overhead, and vertical-up positions. Other areas of welding skills will be administered on 3/8" plate, which are to be welded using 1/8 E6010 and 1/8 E7018 with plate preparation using a single V-groove open butt joint in the vertical-up, horizontal, and overhead position. If a student does not meet the following prerequisites, contact the instructor for a skill level placement test for admittance in the course. Prerequisites: Completion of WELD 1550 and WELD 1700 or by instructor's permission through testing. (2 lect., 4 lab)

WELD 1770 – Gas Metal Arc Welding (GMAW) – Flux Core Arc Welding (FCAW). 4 credits

Students will be introduced to the basics of Gas Metal Arc Welding (GMAW), which includes metal transfer modes, electrode identification, and a detailed introduction to the power source, repairs, techniques, and set-up. The course projects will enable the students' to advance on their skills in GMAW leading up to the process of Flux Core Arc Welding (FCAW) using dual shield with the final being based on the AWS D1.1 Structural Steel Code. If a student does not meet the following prerequisites, contact the instructor for a skill level placement test for admittance into the course. Prerequisites: Completion of WELD 1550 and WELD 1700. (2 lect., 4 lab)

WELD 1780 (WELD 1785) – Gas Tungsten Arc Welding on Plate (GTAW). 3 credits

Students will be introduced to the theory of GTAW, machine set-up, and shielding gases used with various applications on mild steel, aluminum, and stainless steel plate in flat, horizontal, vertical-up, and overhead positions. If a student does not meet the following prerequisites, contact the instructor for a skill level placement test for admittance into course. Prerequisites: Completion of WELD 1550, WELD 1700 and WELD 1760. (1 lect., 4 lab)

WELD 1860 – Welding Fabrication. 3 credits

This course is designed to give the student basic skills in welding layout and fabrication. The student will be required to design and fabricate a minor project and a major project using the techniques learned in prior courses. All projects are to be accompanied by a complete set of prints using all the appropriate welding symbols and notations along with the necessary information needed to prevent major problems in the construction of the projects. The project will then be fabricated from the sketch within a +/- 1/8" tolerance. Students are responsible for the purchase of materials used for the projects. If a student does not meet the following prerequisites, contact the instructor for a skill level placement test for admittance into the course. Prerequisites: Completion of WELD 1650 and WELD 1700. (1 lect., 4 lab)

WELD 1975 (WELD 1585) – Independent Study: Welding. 1-3 credits (Max 6)

This course is designed as an open-entry/open-exit course to assist welders who have sufficient background to update their welding skills following a mutually agreed upon education plan. Prerequisites: Contact the instructor for a skill level placement test for admittance into the course. (2 lab to 6 lab)

WELD 2510 – Pipe Welding 1. 4 credits

This course is an introduction to pipe welding on up to an advanced level. Topics of study include welding V-groove joints on various thickness of pipe in the 2G, 5G, and 5G (45° fixed) positions to API and ASME specifications. The SMAW process will be used with E6010 root and E7018 filler passes. All weld finals will be tested according to the API certification. If a student does not meet the following prerequisites, contact the instructor for a skill level placement test for admittance into the course. Prerequisites: Completion of WELD 1700 and WELD 1760. (2 lect., 4 lab)

WELD 2610 – Ornamental Iron Work. 2 credits

This course introduces the student to various techniques in creating ornamental metal projects. The student will learn the proper use of all welding equipment as well as various surface treatments for metal. Emphasis will also be on the students' creative ability to produce a final project. All material needed for special effects and fabrications are to be furnished by the student. Prerequisites: Completion of WELD 1550 and WELD 1610 or instructor's permission. (1 lect., 2 lab)

COURSE DESCRIPTIONS

WELD 2650 (WELD 2510) – GTAW Pipe. 4 credits

This course will introduce students to topics on GTAW on 3-inch schedule 40 pipe and 6-inch schedule 40 pipe in the 2G, 5G, and 6G positions. The root and hot pass are to be welded with GTAW, while the remaining filler passes with E7018 SMAW to the student's preference. All welds will be destructive tested on the root and face bend test. Contact the instructor for a skill level placement test for admittance into the course. Prerequisite: Completion of WELD 1780 and WELD 2510. (2 lect., 4 lab)

WELD 2670 – Welding Inspection Technology. 3 credits

This course is an introduction to the field of "Welding Inspection". The course is designed to meet the welding standards requirements established by the American Welding Society for a person to become a Certified Welding Inspector. The importance of weld quality in the industry is stressed throughout the course. Topics will include weld inspections, procedures, welding codes and standards, and weld qualifications. Prerequisite: Completion of WELD 1700. (3 lect.)

WELD 2680 – Welding Metallurgy. 3 credits

This course introduces the effects of welding and heat treatment on commercial metals. Students will experiment with simple methods of identification and will evaluate metal samples to understand the effects on the grain structures and behavior of these metals under various applications. The students are introduced to the process of steel, stainless steel, and cast iron production. The chemistry composition of other various types of special metals, the definition of alloys, and ferrous and nonferrous metals will also be discussed. (3 lect.)

WELD 2700 – Welding Certification (Plate). 2 credits

This course is designed to prepare individuals for the requirements necessary for AWS structural steel certification. The Structural Steel Certification Test must be administered by a qualified AWS certified Weld Inspector. For students who choose to take the Structural Steel Certification Test, a separate charge for administering the welding certification will be assessed by the AWS CWI. Prerequisites: Sufficient welding background to pursue testing according to industry codes. Contact the instructor for a skill-level placement test for admittance into the course. This is an eight week course. (4 lab)

WELD 2710 – Welding Certification (Pipe). 2 credits

This course is designed to prepare students for pipe welding certification. An AWS Certified Weld Inspector will instruct and monitor students' pipe welds to meet pipe welding certification standards. The Pipe Welding Certification test must be administered by a qualified AWS Certified Weld Inspector. For students who choose to take the pipe certification test, a separate charge for administering the Pipe Welding Certification will be assessed by the AWS CWI. Prerequisites: Sufficient welding background to pursue testing according to codes. Instructor's permission required. This is an eight-week course. (4 lab)

WELLNESS- See Physical Education-Health Education

WOMEN'S STUDIES

WMST 2015 – Identity Through the Arts. 3 credits

The topic of identity will be explored through the discussion and study of culture, race, gender, and sexuality in the context of different cultures and time periods as they relate to the visual and performing arts. Students earning credit in WMST 2015 may not earn credit in ART 2015. (3 lect.)

WORD PROCESSING- See Computer Applications and Microsoft Office Specialist

ZOOLOGY

Z00 1200 – Human Biology. 3 credits (T)

This course is a survey course in Human Biology. The course emphasizes the basic concepts necessary for a fundamental understanding of all the human body systems. This course introduces students to basic anatomical terms and their spelling, as well as symptoms and disease processes associated with each body system including nervous, endocrine, reproductive, cardiovascular, urinary, digestive, musculoskeletal, and integumentary. (3 lect.)

Z00 2015 – Human Anatomy. 4 credits (E)

This course is a study of human structure in terms of its microscopic and gross anatomy. It is designed to provide students with an adequate background to study human function in Z00 2025: Human Physiology, but will also serve as a human anatomical study for students majoring in Nursing, Physical Education, Athletic Training, Health Science or Biological Science. A laboratory is included where human cadavers will be studied and dissected when available. Otherwise, the cat will serve as the dissection specimen. Prerequisites: BIOL 1010 recommended, but not required. (3 lect., 3 lab)

Z00 2140 – Cadaver Anatomy. 2 credits (T)

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, the student 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. Prerequisites: Successful completion of Z00 2015, Z00 2025 or instructor permission. This course may be repeated for up to four credits on different topics. (1 lect., 3 lab)

Z00 2025 – Human Physiology. 4 credits (T)

Each human organ system will be studied in terms of its functional anatomy and physiology. Integration and control of physiological processes will be emphasized to give students a practical working knowledge of such processes as digestion, nervous transmission, cardiac and circulatory function, respiration, muscle contraction, reproduction, and excretion. The laboratories will include experiments utilizing the most modern computer data acquisition equipment to acquire and analyze electrocardiograms, respiratory function tests, and muscle physiology. Techniques will be learned for determining blood pressure, blood count, complete blood count parameters, urinalysis, vision, hearing body composition, and cardiovascular fitness. The chemistry of digestion will be studied in the laboratory. It is recommended, but not required, that students successfully complete Z00 2015 before taking Z00 2025. Prerequisite: Completion of MATH 0920 or test into MATH 1000; completion of BIOL 1010; and completion of ENGL 1010. (3 lect., 3 lab)

GENERAL EDUCATION REQUIREMENTS

Below are courses listed by General Education Requirements for the fall 2014/spring 2015 semesters.

This list can be added to or subtracted from as curricular changes are made.

See your advisor or consult specific programs of study in this catalog for details.

WRITING LEVEL I: WR1

ENGL 1010 English Composition I

WRITING LEVEL II: WR2

BADM 1020 Business Communications
CO/M 2100 Reporting & Newswriting
ENGL 1020 English Composition II
ENGL 2010 Technical Writing

U.S. & WYOMING CONSTITUTION: POLS

POLS 1000 American & Wyoming Government

VISUAL, PERFORMING, EXPRESSIVE ARTS: ARTS

ART 1000 General Studio Art
ART 1005 Drawing I
ART 1150 Photography I
ART 1450 Fibers I
ART 2145 Digital Photography I
ART 2210 Painting I
ART 2310 Sculpture I
ART 2410 Ceramics I
CO/M 2200 Electronic Media Production
ENGL 2050 Creative Writing: Intro to Fiction
MUSC 1015 Music Fundamentals
MUSC 1050 Private Lessons
MUSC 1055 Individualized Lessons
MUSC 1290 Class Piano I
MUSC 1292 Class Guitar I
MUSC 1378 College Band
MUSC 1390 Jazz Ensemble I
MUSC 1400 Collegiate Chorale
MUSC 1410 Vocal Ensemble
MUSC 1430 Symphony Orchestra
MUSC 1441 Chamber Ensemble
MUSC 1452 Handbell Choir
MUSC 1490 Piano Ensemble
THEA 1000 Intro to Theatre
THEA 1015 Scene Painting I
THEA 1100 Acting I
THEA 2005 Creative Dramatics I

CO-CURRICULAR LEARNING: CL**CULTURAL APPRECIATION: CLCA**

AIST 2350 Cultural Institute
COCR 1000 Cultural Appreciation:

COMMUNITY ENGAGEMENT: CLCE

ART 2146 Digital Photography II
COCR 1005 Community Engagement:
EQST 1340 Horse Event Production
NRST 1520 Client in the Community

PROFESSIONAL EXPERIENCE: CLPE

ANTH 2010 Archaeology Field School
ART 2141 Professional Practice in the Arts
COCR 1010 Professional Experience:
CPED 1000 Cooperative Work Experience I
EDEC 2200 Early Child Practicum
EDUC 2100 Public School Practicum
HMSV 1200 Field Experience in Human Services I
KIN 2078 Athletic Training Clinical II
MUSC 2070 Individualized Lessons
NRST 2400 Trends in Nursing Leadership
THEA 2141 Professional Practice in Theatre

FINANCIAL LITERACY: FIN

FIN 1000 Personal Finance
FIN 1001 Personal Financial Planning
FIN 1002 Personal Finance: Risk Credit Management

HUMANITIES: HUM

AIST 2340 American Indian Literature
ANTH 2022 Petroglyphs & Primitive Art
ART 2010 Art History I
ART 2020 Art History II
ART 2022 Petroglyphs & Primitive Art
CO/M 2470 Cinema History
ENGL 2140 World Literature I
ENGL 2186 Mythology & Folklore
ENGL 2210 American Literature I
ENGL 2230 Intro to Shakespeare
ENGL 2286 Legends and Lore
ENGL 2310 English Literature I
ENGL 2340 American Indian Literature
HIST 1110 Western Civilization I
HIST 1120 Western Civilization II
HIST 1305 Cowboys & Indians
HIST 2225 History of Christianity
HIST 2315 Equality State Gender & Ethnicity
HIST 2320 History of Islam
HUMN 2025 Humanities Through the Arts
HUMN 2430 World Religions
LIBS 2280 Literature for Children
MUSC 1000 Intro to Music

COURSE DESCRIPTIONS

MUSC 1425	History of Rock Music
MUSC 2050	Music History Survey I
MUSC 2055	Music History Survey II
MUSC 2057	Jazz: A Listener's Introduction
PHIL 1000	Intro to Philosophy
RELI 1000	Intro to Religion
RELI 2225	History of Christianity
RELI 2320	History of Islam
THEA 2010	Theatrical Backgrounds Drama I
THEA 2020	Theatrical Backgrounds Drama II

LAB SCIENCE: *LSCI*

ASTR 1050	Survey of Astronomy
ASTR 1070	The Earth: It's Physical Environment
ATSC 2000	Intro to Meteorology
ATSC 2110	Intro to Climatology
BIOL 1002	Discovering Science
BIOL 1010	General Biology I
BIOL 1020	Life Science
BIOL 1080	Intro to Environmental Science
CHEM 1000	Intro to Chemistry
CHEM 1020	General Chemistry I
CHEM 1090	Fundamentals of the Physical Universe
GEOG 2150	Geoinformation Science & Technology
GEOL 1070	The Earth: It's Physical Environment
GEOL 1100	Physical Geology
GEOL 1200	Historical Geology
GEOL 1470	Environmental Geology
PHYS 1050	Concepts of Physics
PHYS 1090	Fundamentals of the Physical Universe
PHYS 1110	General Physics I
PHYS 1310	College Physics I

MATHEMATICS: *MATH*

MATH 1000	Problem Solving
MATH 1100	Mathematics for Elementary School Teacher I
MATH 1400	College Algebra
MATH 1450	Algebra & Trigonometry
MATH 2200	Calculus I

ORAL: *ORAL*

CO/M 1010	Public Speaking
CO/M 1030	Interpersonal Communications
CO/M 2130	Human Relations
MGT 2130	Human Relations

PHYSICAL ACTIVITY: *PEAC*

HLED 1006	Personal Health
HLED 1282	Exercise, Health & Wellness
PEAC 1000-2499	PE: Activity
PEAC 9998	Military PE Credit
THEA 1401	Dance & Movement
THEA 1410	Ballet I/I
THEA 1420	Ballet I/II
THEA 1430	Modern Dance I
THEA 1440	Modern Dance II
THEA 1450	Beginning Tap Dance

SOCIAL & BEHAVIORAL SCIENCE: *SOC*

ANTH 1100	Intro to Physical Anthropology
ANTH 1200	Intro to Cultural Anthropology
ANTH 1300	Intro to Archaeology
EDFD 2450	Human Life-Span Development
ECON 1010	Macroeconomics
ECON 1020	Microeconomics
G&R 1020	Intro to Human Geography
POLS 1200	World Political Cultures
POLS 2310	International Relations & World Politics
PSYC 1000	General Psychology
SOC 1000	Sociological Principles
SOC 1100	Social Problems

UNIVERSITY STUDIES: *UNST*

UNST 1000	Orientation to College
UNST 1005	Freshman Seminar

WELLNESS: *WELL*

HLED 1006	Personal Health
HLED 1281	Health & Wellness
HLED 1282	Exercise, Health & Wellness

BELOW ARE COURSES LISTED FOR USE AS AAS SPECIFIC GENERAL EDUCATION REQUIREMENTS.

APPLIED MATHEMATICS: *APPM*

BADM 1005	Business Math
MATH 1500	Applied Math

INFORMATION TECHNOLOGY: *IT*

ACCT 1065	Computerized Accounting
CMAP 1680	Microcomputer Applications
COSC 1200	Computer Information Systems
NRST 1110	Mental Health & Illness

