



Courses of Instruction

Course Numbering System

All courses are distinguished by number and title.

Courses in the semester which they are normally offered are indicated as follows: Fa (Fall), Sp (Spring), Su (Summer), and O (On Demand). Courses offered on alternate years are indicated by E (Even) and O (Odd) following the semester in which they are offered. (The college administration reserves the right to make changes without notice.)

The number of credit hours for which a course is offered is stated immediately following the course title.

The following numbers are designated for special variable courses which allow credit for subjects which may not be covered by other courses. Due to the nature of these courses, students transferring to the University of Wyoming or other colleges may need to petition for acceptance of credits. Contact the registrar at the transfer institution if you have a concern.

Course Numbers for Variable Courses

1395, 1895, 2395, 2895 Capstone Courses
1460, 1960, 2460, 2960 Field Studies:
1465, 1965, 2465, 2965 Directed Studies/
Research Problems
1470, 1970, 2470, 2970 Internship/
Practicum
1475, 1975, 2475, 2975 Independent
Studies
1480, 1980, 2480, 2980 Cooperative
Work Experience
1485, 1985, 2485, 2985 Seminar:
1490, 1990, 2490, 2990 Topics:
1495, 1995, 2495, 2995 Workshop:
Special courses numbered 1490, 1990, 2490,
and 2990 and titled "Topics:" are limited
to a maximum of six (6) hours in any one
department. No more than six hours will apply
toward the Associate of Arts or the Associate of
Science Degree.

Titles of the individual courses will be entered in the transcript and registrars of transfer institutions should write to the Vice President for Learning for specific course descriptions.

Course Prerequisites and Waivers

Many EWC courses have prerequisites that must be met before enrollment in those courses, and which can be found at the end of course descriptions. A course prerequisite is typically met by an appropriate COMPASS score or by completion of a prerequisite course. However, in unusual circumstances a student may have demonstrated comparable knowledge or background equivalent to but different from the listed prerequisite. In those unusual cases the full-time faculty member teaching the course may grant permission for the prerequisite waiver. Adjunct faculty may waive course prerequisites only after consultation with the appropriate division chair or Dean of Instruction.

Accounting-Business (ACCT)

1010 Principles of Accounting I (3) (Fa)

A basic course for those preparing for a bachelor's degree in business administration or accounting. Fundamental accounting concepts and procedures employed by business entities are examined. Basic areas covered include the accounting cycle, income statement, balance sheet, merchandise, cash, systems and controls, receivables, inventories, plant and intangible assets, and current liabilities. Students who have successfully completed ACCT 1050 or ACCT 1060 cannot earn credit in ACCT 1010 and those who have successfully completed ACCT 1010 cannot earn credit in ACCT 1050 or ACCT 1060.
3 hours lecture.

1020 Principles of Accounting II (3) (Sp)

A basic course for those preparing for a bachelor's degree in business administration or accounting. This course is a continuation of ACCT 1010 with an emphasis on partnerships, corporations, bonds, foreign currency transactions, the statement of cash flows, financial statement analysis, cost accounting and variances, budgeting, and managerial profit analysis.
Prerequisites: ACCT 1050 and ACCT 1060, or ACCT 1010 with a grade of "C" or better.
3 hours lecture.

1050 Practical Accounting I (2) (Fa, Sp)

This is a basic course in accounting fundamentals focusing on the accounting cycle and financial statements. Double entry accrual accounting

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procedures are emphasized for a service business organized as a sole proprietorship. Specific areas covered include recording and posting transactions, end-of-the-period procedures, and payroll accounting. No previous knowledge of accounting is necessary. Students who have successfully completed Accounting 1050 or Accounting 1060 cannot earn additional credit in Accounting 1010. Students who have credit in Accounting 1010 cannot earn credit in Accounting 1050 or Accounting 1060.
2 hours lecture.

1060 Practical Accounting II (2) (Sp)

A continuation of Accounting 1050. This course emphasizes accounting procedures for purchase and sale of merchandise, end-of-period activities for a merchandising business, a voucher system, accounts and notes receivable, inventories and long-term assets. Students who have successfully completed Accounting 1050 or Accounting 1060 cannot earn additional credit in Accounting 1010. Students who have credit in Accounting 1010 cannot earn credit in Accounting 1050 or Accounting 1060.
Prerequisite: ACCT 1050 with a grade of "C" or better.
2 hours lecture.

2110 Microcomputer Accounting I (2) (Sp)

A course which provides a lab approach to computerized integrated accounting systems. Students work with the general ledger, accounts receivable, accounts payable, financial statement analysis, depreciation, inventory, and payroll. Students must have an understanding of double-entry bookkeeping as utilized in a manual accounting system.
Prerequisite: ACCT 1050 or ACCT 1010 with a grade of "C" or better or the achievement of a satisfactory score on an accounting fundamentals pretest.
1 hour lecture, 2 hours lab.

2450 Cost Accounting (3) (Fa)

Students will acquire knowledge in the fundamental principles of managerial cost accounting including the accumulation and reporting of accounting information needed for product and standard costing as well as information for planning, decision-making and control activities.
Prerequisite: MATH 1400, ACCT 1010, ACCT 1020 with a grade of "C" or better.
3 hours lecture.

Agricultural Economics (AGEC)

1010 Agricultural Economics I (3) (Fa)

A description and analysis of national income, business cycles, income distribution, governmental economic policies, the banking system, and monetary and fiscal policy. Students cannot earn credit for both AGECE 1010 and ECON 1010.
3 hours lecture.

1200 Economics and Management of Agricultural Equipment (2) (Sp)

A study of equipment management as it effects overall agricultural operation. Emphasis will be placed on comparative buying, analysis of comparable mechanical systems, and ownership versus rental and custom operator services.
2 hours lecture.

1510 Farm/Ranch Applications & Review of Management (3) (Fa)

This course is primarily offered for agricultural operators who would like to improve or update their management skills. The course will cover general principles of financial management and decision making as well as examples and cases where students make applications to their own specific situation. The students will culminate the course with a completed business plan detailing the changes and direction they will follow upon completing the class.
3 hours lecture.

1970 Ag Internship (2) (Fa, Sp)

This class is designed to provide a work-related experience for students. It will emphasize concepts, skills and attitudes needed for employment in farm, ranch, or agri-business management and production. The student must consult the instructor before enrolling in this course. This course is offered for S/U grade only. This course requires 60 hours of work-time, completion of a resume, job application, learning objectives, mock interview, and letter of application. This course should be taken in the second semester of the Farm/Ranch Management program.
Prerequisites: Must have completed 12 hours of courses in the A.A.S. Farm and Ranch program with a grade of "C" or better.
2 hours lab.

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2010 Farm-Ranch Business Records (3) (Fa)

This is a basic course in farm/ranch bookkeeping and accounting.
3 hours lecture.

2020 Farm-Ranch Business Management (3) (Sp)

Economic principles, business methods, and science applied to organization and operation. Measurements of size of business, rates and efficiency of production.
3 hours lecture.

2150 Agri-Business Finance (3) (Sp)

A course dealing with loan applications, options, and determination of loan needs, repayability, and the function and operation of various lending agencies.

Prerequisite: AGEC 2010 with a grade of "C" or better.

3 hours lecture.

2300 Agricultural Marketing (2) (Sp)

A study of marketing and market planning as they deal with sales. Also covered will be the functions, theory, and practices of salesmanship as they relate to wholesale and retail sales.

2 hours lecture.

2350 Agricultural Commodities in Marketing (2) (Fa, Sp)

This course deals with the use of the commodities futures markets for risk management in the marketing of livestock and grain. The cash market will also be studied, including transportation, forward contracting types of markets, and price trends.

2 hours lecture.

2395 AG Capstone Project (2) (Sp)

This course is required to successfully complete the AAS Farm/Ranch Management Degree and the AS degrees in General Agriculture, Agricultural Economics, Agricultural Business, and Animal Science. Sophomore students intending to graduate with the AAS degree will be completing a business plan. Sophomore students intending to graduate with the AS degree will complete a thesis paper consistent with their degree field.

1 hour lecture, 2 hours lab.

Agriculture (AGRI)

1010 Computers: Agriculture (3) (Fa)

This course is designed as a beginning course for agricultural students interested in learning about microcomputers and software applications for agriculture. Main applications are word processing, spreadsheet, database, graphics, and Internet applications. The course is designed for students with little or no previous experience in computer science.

2 hours lecture, 2 hours lab.

2000 Agriculture Chemicals I (2) (Fa)

A study of agricultural chemicals as used in production agriculture. Particular attention will be focused on types and application procedures for insecticides, herbicides, fungicides, and soil sterilants. Safety and proper application will be stressed.

2 hours lecture.

Agriculture Technology (AGTK)

1550 Veterinary Elements (4) (Sp)

Subjects covered in this course include basic animal anatomy and physiological processes, general principles of disease and disease resistance including classification of causes, diseases transmissible from animals to man (zoonosis), poisons and poisonous plants, chemotherapeutic agents and disinfectants, immunization principles and programs, specific infectious diseases and the effects of season, and parasitic diseases and the effects of season, and parasitic diseases. A lab compliments this course so students can get hands on experience.

3 hours lecture, 2 hours lab.

1810 Beginning Hydraulics (3) (Sp)

Studies the use of hydraulic pumps and systems. Special emphasis is given to pumping, controlling, and measuring flows and to system design and analysis. Also emphasized is distinguishing the difference between types of valves, pumps, hoses, and connection arrangement and flow patterns.

2 hours lecture, 2 hours lab.

1910 Equipment Maintenance and Repair (2) (Sp)

A course stressing the fundamentals of preventive maintenance of farm equipment to reduce failures, save on operating costs, and keeping equipment safe. Establishes good habits in the continuous care of equipment through periodic adjustments and servicing as required.

2 hours lecture.

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American Studies (AMST)

2110 Cultural Diversity in America (3) (O)

This course studies processes by which individuals and groups produce, maintain and express cultural identities in various U.S. issues. Race, gender and ethnicity will be addressed, emphasizing historical roots and social context of contemporary cultural variety.
3 hours lecture.

Animal Science-Agriculture (ANSC)

1010 Livestock Production I (4) (Fa, Sp)

Introduction to basic production and management problems of meat animals. A well-rounded picture of the scope, importance, and operation of livestock farms and ranches is presented. Consideration is given to livestock judging, feedlot operation, and marketing and processing of meat animals.
3 hours lecture, 2 hour lab.

1035 Horse Production (3) (Fa)

A basic course covering the evolution and history of the equine species; classes, breeds, and colors; conformation and blemishes; aging by the teeth; nutrition and nutritional diseases; lacerations, fractures, and lameness; infectious diseases; parasitism; and reproduction.
3 hours lecture.

1100 Management of Reproduction (4) (Sp)

Lecture-laboratory course. Introduces methods of manipulating reproduction within livestock management systems. Includes artificial insemination, diagnosis of pregnancy, induction and control of estrus and ovulation, induction of parturition, embryo transfer and control of reproductive diseases. A substantial lab fee is required. Most of the class deals with cattle and some horses.

Prerequisite: BIOL 1010 or VTTK 1610 with a grade of "C" or better.
3 hours lecture, 3 hour lab.

1210 Beginning Livestock Judging I (2) (Fa, Sp)

A basic course covering breeds of livestock, fundamentals of livestock selection, and proper methods of livestock judging. Designed for those with little or no previous livestock judging experience.
2 hours lecture.

1220 Techniques of Livestock Judging II (1) (Sp)

Advanced study in the principles of livestock selection with emphasis on judging and giving oral reasons.

Prerequisite: ANSC 1210 with a grade of "C" or better. This course is offered for S/U grade only.
2 hours lab.

2030 Principles of Livestock Feeding (4) (Fa)

This course will include the review of basic principles of chemistry; classification of nutrients and feeds; basic digestive anatomy and physiology in monogastric, ruminant, and monogastric herbivorous animals; basic nutritive processes including ingestion, digestion, absorption, circulation, metabolism, and excretion; and specific feeding programs for various classes of cattle, swine, horses, and companion animals.
3 hours lecture, 2 hours lab.

2110 Beef Production and Management (3) (Sp)

This course emphasizes a profit-oriented approach to beef cattle production and management making decisions. Different management systems are discussed. Computer software programs are utilized in labs to show the benefit of a good record system as a management tool. Integrates information learned in other classes such as reproduction, nutrition, and range.
2 hours lecture, 2 hours lab.

2230 Advanced Techniques of Livestock Judging III (1) (Fa)

A concentrated study of livestock selection with major emphasis on team competition and national livestock shows.

Prerequisite: ANSC 1210 with a grade of "C" or better. This course is offered for S/U grade only.
2 hours lab.

2240 Advanced Techniques of Livestock Judging IV (1) (Sp)

This course is designed for the competitive livestock judging team to further advance their skills in terms of live animal evaluation, oral reasons, and performance data evaluation. Extreme time and dedication will be involved with travel to competitive contests and practices.
Prerequisite: ANSC 1210 with a grade of "C" or better. This course is offered for S/U grade only.
2 hours lab.

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Anthropology (ANTH)

1100 Introduction to Physical Anthropology (3) (O)

Survey of basic concepts of archaeology and basic concepts relating to the origin, evolution, and biological nature of the human species. 3 hours lecture.

1200 Introduction to Cultural Anthropology (3) (O)

An introduction to the nature of culture and society with a survey of material culture, economic systems, social and political organization, language, magic and religion, and the arts. 3 hours lecture.

Art (ART)

1000 General Art: Studio (3) (Fa, Sp)

A basic introduction to art designed to give a beginner a practical appreciation through design activities applied to different media. Supplementary aspects are covered by lectures and demonstrations concerning art history, drawing, crafts, and others. For non-art majors only. 1 hour lecture, 4 hours lab.

1050 Beginning Drawing (3) (Fa)

Investigation of the visual language required in drawing. A detailed examination of the basic formal and procedural means employed in expressive drawing. Lectures are combined with critiques of problems in a variety of stylistic approaches. Explores problem-solving techniques. Required of all art majors. 1 hour lecture, 4 hours lab.

1060 Drawing II (3) (O)

Objective drawing exploring a variety of possible media. This may include pen and ink, wash, scratchboard, and/or other media depending on availability of supplies.

Prerequisite: ART 1050 with a grade of "C" or better, or consent of instructor.

1 hour lecture, 4 hours lab.

1110 Foundation: Two-Dimensional (3) (Fa)

Introduction to the elements and principles of design and structure for ordering two-dimensional space. Explores creative visual problem solving techniques. Problems are related to investigative theories of visual perception. Required of art majors. 1 hour lecture, 4 hours lab.

1130 Foundation: Color Theory (3) (Fa, Sp)

Introduction to the elements and principles of color theory and fundamentals. Problems are related to investigations of color perception, sensation, and manipulation of color harmonies. Required of art majors.

Prerequisite: ART 1110 with a grade of "C" or better, or consent of instructor.

1 hour lecture, 4 hours lab.

1179 Photoshop I (3) (Fa)

An introduction to Adobe Photoshop as a creative medium. We will explore a range of possibilities with various aspects of the program, including layers, filters, tools, and color modifications. Projects will use scanned and captured images such as photographs, sketches, and real textures in a range of possible fine art and commercial applications.

2 hour lecture, 2 hours lab.

1250 Water Based Media I (3) (O)

Studies in watercolor using various techniques enabling the student to control the medium.

Students are expected to have previous experience in color theory.

1 hour lecture, 4 hours lab.

1310 Sculpture I (3) (Sp)

An introduction to the fundamentals of sculpture and three-dimensional form. Exploration of various media techniques and concepts through a series of assigned and open projects. Includes an emphasis on the traditional methods and formal, abstract elements of sculpture. Leads to an understanding of both classic and modern concepts of form. Required of all art majors.

1 hour lecture, 4 hours lab.

2010 Art History I (3) (Fa)

Art History I is the first semester of a one-year survey. Studies will include Ancient, Medieval, Renaissance, and Modern Art with special reference to various historic factors which motivated and conditioned the aesthetic forms. The first semester is concerned with Ancient, Medieval, and Gothic periods. Either semester may be taken separately without regard to order. Required of all art majors.

3 hours lecture.

2020 Art History II (3) (Sp)

Art History II is the second semester of a one-year survey. Includes the study of Ancient, Medieval, Renaissance, and Modern Art with a special reference to various historical factors

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which motivated and conditioned the aesthetic forms. Second semester is concerned with Renaissance, Baroque, Rococo, Eighteenth Century and Nineteenth Century periods. Either semester may be taken separately without regard to order.

Required of all art majors.

3 hours lecture.

2115 Electronic Media (3) (O)

Designed to investigate the role of electronic media in visual literacy. Students gain practice with basic graphics software and hardware, explore using the Internet in informing the development of art work, and discuss how application of these skills are used in the classroom, studio, and commercial art fields.

Prerequisites: ART 1050 and ART 1110 with a grade of "C" or better.

3 hours lecture.

2145 Digital Photography (3) (Sp)

Students will learn photographic and computer techniques essential for creating computer based imagery. This course is designed to develop your skills in pixel based photographic design and imagery. It will cover digital camera operation, photo editing software, desktop scanners, and printing. Digital images will be edited with appropriate professional digital imaging software.

Prerequisite: ART 1179 with a grade of "C" or better.

2 hours lecture, 2 hours lab

2210 Beginning Painting (3) (Sp)

A continuation of Art 1050. An introduction to problems in painting with emphasis on skill, techniques, and concepts. Problems concerning color theory, composition, media techniques, and concepts of painting. The student is encouraged to explore the possibilities of all manners of representation. Required of all art majors.

Prerequisite: ART 1050 with a grade of "C" or better, or consent of instructor.

1 hour lecture, 4 hours lab.

2220 Painting II (3) (Sp)

A development of techniques and concepts introduced in Beginning Painting 2210. Exploration of different historical modes of representation as well as advanced study in color theory, composition, and technique. Students will work primarily in Acrylic, although they will be exposed to mixed media approaches.

Prerequisite: ART 2210 with a grade of "C" or better.

1 hour lecture, 4 hours lab.

2410 Ceramics I (3) (Fa, Sp)

An introduction to ideas about ceramic form through various construction techniques.

Explores methods of pottery construction such as coil, slab, free-form and throwing on the wheel. Students learn ceramic decoration, glaze application, and theory of firing. Course emphasizes principles of design with clay and technical awareness.

1 hour lecture, 4 hours lab.

2420 Ceramics II (3) (Fa, Sp)

Continued exploration of ideas about ceramic form specifically through wheel-throwing techniques. Includes glaze testing, glaze application, surface decoration, kiln operation. Course emphasizes design and conceptual development through the creation of specific wheel-thrown forms.

Prerequisite: ART 2410 with a grade of "C" or better, or consent of instructor.

1 hour lecture, 4 hours lab.

Biology (BIOL)

1000 Principles of Biology (4) (Fa, Sp, Su)

Primarily for the non-major. Considers fundamental principles of ecology, evolution, cell biology and genetics, as well as their relevance to contemporary society. Emphasizes critical thinking and problem-solving abilities. Laboratory is required. (This course is not equivalent to BIOL 1010, and credit cannot be earned for both courses.)

3 hours lecture, 3 hours lab.

1002 Discovering Science (4) (Sp) (O)

This is a one-semester interdisciplinary course that integrates Biology, Chemistry, Physics, Geology, and Astronomy for non-science majors. Fundamental concepts from each discipline are addressed through lectures, while weekly laboratory activities enable students to integrate science into their every day experiences and societal issues. Students cannot earn credit for both BIOL 1002 and CHEM 1002.

Prerequisite: Placement score for MATH 0920 or better, and DVST 0640 or better, and no reading improvement required, or appropriate ACT score.

3 hours lecture, 3 hours lab.

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1010 General Biology I (4) (Fa, Sp)

A survey of the basic principles of biology. Units are included on the scientific method, the cell, genetics, evolution and diversity, and ecology. Prerequisite: Placement score for MATH 0920 or better, and DVST 0640 or better, and no reading improvement required, or appropriate ACT score.

3 hours lecture, 3 hours lab.

1050 Medical Terminology (3) (Fa-E)

This course provides instruction in the structure of medical language, introducing commonly used word roots, prefixes, suffixes, and the terms formed from these word parts. Many additional terms not built from word parts will also be included. The course is recommended for students planning on entering medical fields as well as those in medical fields who wish to upgrade their present knowledge.

3 hours lecture.

1080 Environmental Science (3) (Sp)

Intended for both majors and non-majors. Primary focus will be on modern environmental problems including conservation of natural resources, ecosystems, water pollution, air pollution, waste management, endangered species and land use issues.

Prerequisite: BIOL 1000 or 1010 with a grade of "C" or better.

3 hours lecture.

2020 General Biology II (4) (Fa, Sp)

A continuation of Biology 1010. Units are included on ecology, nutrition, reproduction and development, anatomy and physiology, animal behavior, and the life and diversity of plants and animals.

Prerequisite: BIOL 1010 with a grade of "C" or better.

3 hours lecture, 3 hours lab.

2200 Genetics (3) (Sp-E)

A study of genetics and inheritance. Topics include the structure and function of genetic material, protein synthesis, gene regulation, and Mendelian, molecular, and population genetics. Students who received credit in VTTK 2820 prior to Fall 1993 cannot earn additional credit in BIOL 2200.

Prerequisite: BIOL 1010 or VTTK 1610 with a grade of "C" or better.

3 hours lecture.

2415 Ecology and Field Biology (4) (Fa)

An introductory course for the major and non-major designed to study fundamental concepts in ecosystem and population ecology. Emphasis will be placed on understanding basic principles and their application in understanding natural and man-manipulated ecosystems. Laboratory will focus on field studies, sampling techniques, and methods of analyzing data.

Prerequisite: BIOL 1000 or 1010 with a grade of "C" or better.

3 hours lecture, 3 hours lab.

Botany (BOT)

2100 Forest Management (3) (Sp)

A discussion of the objectives and the general principles of forestry, including identification of trees, forest production, methods of cutting and measuring forest, forest conservation, range management, wildlife management, and forest recreation.

Prerequisite: BIOL 1000 or 1010 with a grade of "C" or better.

3 hours lecture.

2120 Plant Taxonomy (4) (Sp)

A study of the classification and nomenclature of vascular plants with special emphasis on those found in the Rocky Mountain Region. Emphasis will be on the identification of local species of grass, forbs, shrubs and trees.

Prerequisite: BIOL 1000 or 1010 with a grade of "C" or better.

2 hours lecture, 4 hours lab.

Business Administration (BADM)

1000 Introduction to Business (3) (Fa)

This course explores the nature of the American free enterprise system and its business organizations. It provides a broad overview of the business environment, management, organization, marketing, finance, and human resources. Other topics covered include international trade, securities markets, and risk management.

3 hours lecture.

1005 Business Mathematics I (3) (Fa, Sp)

A course providing instruction in solving practical business problems utilizing fundamental principles of mathematics. Topics include fractions, decimals, percents, bank records and reconciliation, payroll, the mathematics of buying

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and selling, depreciation, simple and compound interest, annuities, and financial statement analysis.

Prerequisite: MATH 0900 or MATH 1515 with a grade of “C” or better or appropriate score on placement exam.

3 hours lecture.

1020 Business Communications (3) (Fa)

This course will cover the topic of business communications—written, oral, nonverbal, and listening. Application will be made to business situations. The major focus of this course is on writing business messages and reports.

Emphasis will be given to the study of effective writing principles, problem analysis, and the writing process. Prerequisites: ENGL 1010 or TECH 1005 with a grade of “C” or better.

3 hours lecture.

1030 Personal Finance (3) (Fa-E)

An introductory course in managing personal finances. Topics covered include financial planning, managing taxes, managing cash, use of credit, risk management and investments. Considerable emphasis is placed on insurance and the basics of investing.

3 hours lecture.

2010 Business Law I (3) (Sp)

An introductory course providing a broad overview of business-related legal topics. Students are familiarized with courts and alternative dispute resolution, constitutional law, torts, contracts, intellectual law, criminal law, and cyber law.

3 hours lecture.

2395 Business Office Capstone (3) (Sp)

This course covers office organization, systems, and functions. The class includes coverage on mail services, human relations, records management, communication systems, reprographics, basic accounting procedures, computer applications and equipment usage, ethics, globalization of business practices, cultural awareness and international business practices. It is designed as a capstone course and allows the student to experience the wide variety of roles an office professional assumes in an information age.

3 hours lecture.

Business Office Technology (BOTK)

1510 Office Skills and Services (3) (Sp)

This course is designed to provide the students with the ability to operate electronic calculators, transcription machines, and multi-line telephone systems in a business office setting. Customer service will be emphasized, addressing such topics as preventing and solving problems, listening and communication skills; professional appearance and attitude. Also included is a review of grammar and punctuation. The course will be a combination of lecture and application exercises.

2 hour lecture, 2 hours lab.

1640 Keyboarding Applications I (3) (Fa, Sp)

The beginning typewriting student will learn touch-typing skills. This course includes instruction in the preparation of centered displays, simple tables, letters, manuscripts, and other standard business documents.

1 hour lecture, 4 hours lab.

1645 Keyboarding Office Documents (3) (Fa)

This course designed to give appropriate preparation in document formatting for work in office employment. This course seeks to develop in the student a marketable skill in keyboarding as well as a knowledge of business forms, letters, tabulations, and manuscripts. Emphasis will be placed on detailed proofreading, document formats, and application of knowledge to office problems. Production speed and accuracy are emphasized.

1 hour lecture, 4 hours lab.

1970 Occupational Internship I (1-3, *Maximum 6) (O)

This course is designed to provide a work related experience for students. It will emphasize concepts, skills, attitudes, and develop an understanding of the function of citizenship needed for office professionals. The student must consult the coordinator/instructor before enrolling in this course. *A maximum of six credit hours may be earned through a combination of BOTK 1970 and BOTK 2970. This course is offered for S/U grade only. Prerequisites: CMAP 1715 or CMAP 1700 with a grade of “C” or better.

2 lab hours per credit hour.

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2750 Records & Information Management (3) (Fa)

A course covering the background training in the basic filing principles and in the technique of records control with special emphasis given to the principles common in all systems of filing. 3 hours lecture.

2970 Occupational Internship II (1-3, *Maximum 6) (O)

This course is designed to provide a work related experience for students. It will emphasize concepts, skills, attitudes, and develop an understanding of the function of citizenship needed for office professionals. The student must consult the coordinator/instructor before enrolling in this course. *A maximum of six credit hours may be earned through a combination of BOTK 1970 and BOTK 2970. This course is offered for S/U grade only. Prerequisites: CMAP 1715 or CMAP 1700 with a grade of "C" or better. 2 lab hours per credit hour.

Chemistry (CHEM)

1000 Introductory Chemistry (4) (Fa, Sp)

A one-semester course dealing with principles of chemistry and some applications to inorganic chemistry. For students in home economics, nursing, and most agriculture curricula. Students who receive credit in this course cannot earn additional credit in Chemistry 1020. Prerequisite: MATH 0930 with a grade of "C" or better or concurrent enrollment in MATH 0930 or a placement-test recommendation for MATH 1400 or a higher level course. 3 hours lecture, 3 hours lab.

1002 Discovering Science (4) (Sp) (O)

This is a one-semester interdisciplinary course that integrates Biology, Chemistry, Physics, Geology, and Astronomy for non-science majors. Fundamental concepts from each discipline are addressed through lectures, while weekly laboratory activities enable students to integrate science into their every day experiences and societal issues. Students cannot earn credit for both CHEM 1002 and BIOL 1002. Prerequisite: Placement score for MATH 0920 or better, and ENGL 0640 or better, and no reading improvement required, or appropriate ACT score. 3 hours lecture, 3 hours lab.

1020 General Chemistry I (4) (Fa)

A broad general coverage of the principles of chemistry and their application to chemical systems for majors in engineering, the physical sciences, and laboratory technology. Students who receive credit in this course cannot earn additional credit in Chemistry 1000. Prerequisite: MATH 1400 with a grade of "C" or better or concurrent enrollment in MATH 1400 or a placement-test recommendation for MATH 1405 or a higher level course. 3 hours lecture, 3 hours lab.

1030 General Chemistry II (4) (Sp)

A continuation of Chemistry 1020. Prerequisite: CHEM 1020 with a grade of "C" or better. 3 hours lecture, 3 hours lab.

2300 Introductory Organic Chemistry (4) (Sp)

A one-semester non-lab course in organic chemistry and beginning biochemistry. Students cannot earn credit for both Chemistry 2300 and Chemistry 2320. Prerequisite: CHEM 1000 or CHEM 1020 with a grade of "C" or better. 4 hours lecture.

2320 Organic Chemistry I (4) (Fa)

First semester for a two semester sequence. Emphasis is placed on the structural differences of organic compounds and the mechanistic concepts of organic reactions. Students cannot earn credit for both Chemistry 2320 and Chemistry 2300. Prerequisites: CHEM 1030 with a grade of "C" or better. 3 hours lecture, 3 hours lab.

2340 Organic Chemistry II (4) (Sp)

The second semester of a two-semester sequence. Emphasis is placed on the structural differences of organic compounds and the mechanistic concepts of organic reactions. Prerequisites: CHEM 2320 with a grade of "C" or better. 3 hours lecture, 3 hours lab.

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Communication and Mass Media (CO/M)

1010 Public Speaking (3) (Fa, Sp)

An introduction to the principles of public speaking, with emphasis on practical skills in communicating to audiences, classes, and groups. Course includes training in manuscript preparation and composition.
3 hours lecture.

1030 Interpersonal Communication (3) (Fa, Sp)

Introduction to oral communication in interpersonal group and audience situations. Brief survey of communication rhetoric, principles, and techniques.
3 hours lecture.

1040 Introduction to Human Communication (3) (Sp-O)

This course focuses on the role of communication in current affairs, business, and personal relations. Practical application of theory to communication problems in everyday life.
3 hours lecture.

2060 Forensics (1, Maximum 4) (Fa, Sp)

Develops basic skills in contest and public service speaking by refining the speaking and thinking competence of students. Requires attendance at two competitive tournaments per semester in debate and/or individual events. May be repeated three times for credit.
2 hours lab.

2100 Reporting & Newswriting I (3) (O)

This course begins with an overview of journalistic practice but concentrates on reporter techniques: the study and practice of the basic kinds of newswriting—such as interviews, features, speech and meeting reports, sports—with attention to the problems of gathering and evaluating the news for responsible, effective reporting. Students will be called upon to pursue news assignments outside of class.
2 hours lecture, 2 hours lab.

2395 Social Science Capstone Experience (0) (O)

The Social Science Capstone Experience is directed toward the application of broad principles in the social sciences with specific attention given to the student's discipline of study. The course seeks to enhance and enrich the student's academic background, and involve the student in activities/experiences that demonstrate an ability to continue study in the

social sciences.

Prerequisite: Sophomore standing, major in relevant social science semester of graduation.

Computer Applications (CMAP)

1500 Computer Keyboarding (1) (O)

Students will develop basic touch keyboarding skills through computer instruction. Designed for non-office systems majors. This course is offered for S/U grade only.
1/2 hour lecture, 1 hour lab.

1505 Information Processing Orientation (1) (Fa, Sp)

An introductory course in computer literacy, featuring a "hands-on" approach using microcomputers. Elementary concepts of computer organization, hardware, software, and peripheral devices will be introduced. Standard operations will be explained and routine care of equipment will be covered. This course is designed to be a "first course" in computer science. No previous exposure to computers is assumed.
1/2 hour lecture, 1 hour lab.

1610 Windows: (1) (O)

This course is intended to familiarize the student with basic concepts and skills necessary for using Microsoft Windows to become a productive user of computing technology. Windows is a consistent and integrated graphical user interface that is an efficient and popular way of interacting with IBM compatible computers.
1/2 hour lecture, 1 hour lab.

1625 Introduction to OS and Hardware (4) (Fa)

This course provides an introduction to the IT industry and in-depth exposure to personal computers, hardware, and operating systems. Students learn the functionality of various hardware and software components and best practices in maintenance and safety issues. Through hands-on lab activities, students learn how to assemble and configure computers, install operating systems and software, and troubleshoot hardware and software problems. This course is designed to prepare the students for the CompTIA A+ certification.
2 hour lecture, 4 hours lab.

Courses of Instruction

1650 Local Area Networks I (3) (Fa)

This course teaches students the skills needed to obtain entry-level home network installer jobs. It also helps students develop some of the skills needed to become network technicians, computer technicians, cable installers, and help desk technicians. It provides a hands-on introduction to networking and the Internet using tools and hardware commonly found in home and small business environments. Topics include PC installation, Internet connectivity, wireless connectivity, file and print sharing and installation of game consoles, scanners, and cameras.

2 hours lecture, 2 hours lab.

1685 Using Computers In: (0.5-1.0) (O)

A course in which students acquire knowledge about current computer concepts, terminology, and software. Word processing, spreadsheet, database, graphics, or other appropriate computer software will focus on a specified curriculum, which may vary with each offering. This course is offered for S/U or letter grade. 1/2 hour lecture, 1 hour lab.

1700 Word Processing: WordPerfect (2) (O)

This course provides experience in learning the features of WordPerfect. It begins with the basic skills of word processing including editing and formatting documents, saving and printing files. It then progresses into advanced topics which include merges; working with columns; using math features; creating styles; working with macros; using graphics; and designing basic web pages. This course will be a combination of lecture and application exercises.

1 hour lecture, 2 hours lab.

1715 Word Processing: Microsoft Word (2) (O)

This course is designed to introduce basic, intermediate, and advanced word processing features using the Microsoft Word word processing program with PC-compatible microcomputers. Working hands-on with this software will insure transfer of learning from textbook and applications to business, personal, and home-based business using word processing.

1 hour lecture, 2 hours lab.

1765 Spreadsheet Applications II: Microsoft Excel (2) (Fa,Sp)

A course designed to learn the operation of Microsoft Excel. Using practical business problems, students will learn the fundamentals of spreadsheet operations, database functions, and

creating and enhancing all types of charts (graphs) using spreadsheet data. Other areas covered include macro commands, advanced analysis tools, creating templates and graphic objects, Internet and Web integration. Emphasis is placed on the use of MS-Excel in the workplace.

1 hour lecture, 2 hours lab.

1800 Database Applications I: Access (2) (O)

This course provides instruction in a relational database management system. Areas covered include file organization, storage, retrieval, queries, file management, catalogs, linking files, and programming. Access is a windows-based database that lets you enter, update, and work with data in an easy-to-use format.

1 hour lecture, 2 hours lab.

1850 Desktop Publishing I: (3) (O)

This course is designed to provide an understanding and practical application of computer desktop publishing emphasizing hands-on learning. Topics include but are not limited to single and multi-page publications, editing text, colors, and graphic design objects to create flyers, newsletters, brochures, and logos. Additional topics cover business forms.

2 hours lecture, 2 hours lab.

1886 Outlook (1) (O)

This course is designed to provide an understanding of Microsoft's Outlook and is geared toward learning basic e-mail skills. The student will learn how to work with and manage the e-mail, calendar, appointment scheduling, meeting scheduling, contacts and to-do lists that are available in Outlook. It will cover every topic listed by the Microsoft Office Specialist Program, giving the student the opportunity to get Outlook certified at the Expert level.

Prerequisite: CMAP 1610 with a grade of "C" or better.

1/2 hour lecture, 1 hour lab.

1900 Integrated Applications I: Microsoft Office (2) (O)

This course is designed to give students introductory skills in using the components of the Microsoft Office Suite, which include: Word, Excel, Access, Powerpoint, and the integration of the above components.

1 hour lecture, 2 hours lab.

Courses of Instruction

1905 Integrated Applications II: WordPerfect Suite (2) (Fa)

An introduction to the use of WordPerfect Suite integrated software package that includes word processor, spreadsheet, presentation, and database as well as advanced document preparation and voice recognition software training.

1 hour lecture, 2 hours lab.

1915 MS Office-Advanced Concepts and Techniques (2) (O)

This course is designed for the student already familiar with the fundamentals of Microsoft Office-MS Word, MS Excel, MS Access, and MS PowerPoint. The course will extend basic knowledge of MS Office by the use of practical problems for personal computer applications. Students completing this course will have a firm knowledge of MS Office and will be able to solve a variety of personal computer-related problems. The two-course sequence of MS Office prepares students to pass the Proficient level of Microsoft Office Specialist Exam.

Prerequisite: CMAP 1900 with a grade of "C" or better.

1 hour lecture, 2 hours lab.

1920 Computer Hardware Maintenance (3) (O)

This course is designed to provide students with the skills necessary to install and troubleshoot hardware devices. Topics include system setup, RAM, hard and floppy drives, data buses, power supplies, I/O cards, devices, and diagnostic tools.

Prerequisite: Knowledge Windows operating systems.

2 hours lecture, 2 hours lab.

1930 LAN Wiring and Network Technologies (3) (Sp)

This course prepares students for jobs as network technicians. It also helps students develop additional skills required for computer technicians and help desk technicians. It provides a basic overview of routing and remote access, addressing, and security. It also familiarizes students with servers that provide e-mail services, Web space, and authenticated access. Students also learn about soft skills required for help desk and customer service positions. Network monitoring and basic troubleshooting skills are taught in context.

Prerequisite: CMAP 1650 with a grade of "C" or better.

2 hours lecture, 2 hours lab.

1940 LAN Server Installation and Configuration (4) (Sp)

This course focuses on networking fundamentals and multiuser/multitasking network operating systems. Characteristics of the Linux and Windows network operating systems will be discussed. Students will explore a variety of topics including installations and configuration procedures. More advanced administrative tasks such as troubleshooting issues, security issues, and remote access will also be covered.

3 hours lecture, 3 hours lab.

1955 LAN Design and Implementation (3) (Sp)

This course familiarizes students with the equipment, applications, and protocols installed in local and enterprise networks, with a focus on switched networks, IP Telephony requirements, and security. It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol. Hands-on exercises include configuration, installation, and troubleshooting of networks and network equipment.

Prerequisite: CMAP 1650 with a grade of "C" or better.

2 hours lecture, 2 hours lab.

1970 Occupational Internship (1-3) (Sp)

This course is designed to provide a work-related experience for students. It will emphasize concepts, skills, and attitudes needed for networking technicians. The student must consult the coordinator/instructor before enrolling in this course. This course is offered for S/U grade only.

Prerequisite: Successful completion of CMAP 1650 and CMAP 1625 with a grade of "C" or better. Contact hours vary depending on credit hours.

1995 Certification Preparation (2) (Sp)

This self directed studies course is designed to train students for taking certification exams and to provide a structured environment for preparation of specific exams. In this course students will be taught a variety of test taking techniques, study habits, certification simulations, and finding alternative recourses.

Prerequisite: Successful completion of CMAP 1625, CMAP 1650 with a grade of "C" or better.
4 hours lab.

Courses of Instruction

2510 Multimedia Presentation (2) (O)

This course introduces the technical foundation and general principles that compose multimedia and making effective presentations. Students will be introduced to the requirements of making effective presentations and with special regard to effective multimedia productions. Different production techniques for making effective presentations will be covered. Students will trace project development from design to implementation and delivery.

1 hour lecture, 2 hours lab.

2630 Presentation Graphics: PowerPoint (1) (O)

This course provides students with the skills needed to create and edit presentations. Coverage includes basics as well as adding enhancements, changing formats, creating different graph types, and linking to other programs. PowerPoint is a windows-based business presentations software package.

1/2 hour lecture, 1 hour lab.

2720 Systems Management (3) (Sp)

Students will progress through a variety of case studies and role-playing exercises, which include gathering requirements, designing basic networks, establishing proof-of-concept, and performing project management tasks. In addition, lifecycle services, including upgrades, competitive analyses, and system integration, are presented in the context of pre-sale support. Prerequisites: Successful completion of CMAP 1955 with a grade of “C” or better.

2 hours lecture, 2 hours lab.

2970 Internships (6) (Sp)

This course is designed to provide a work-related experience for students. It will emphasize concepts, skill, and attitudes needed for job placement in an Information Technologies Specialist. The student must consult the coordinator/instructor before enrolling in this course. This course is offered for S/U grade only. Prerequisite: Successful completion of CMAP 1955 with a grade of “C” or better.

Computer Science (COSC)

1010 Introduction to Computer Science I (4) (Fa)

An introduction to algorithmic problem solving and computer programming. Problem analysis, algorithmic top-down design, implementation, testing, debugging, and maintenance are stressed as the student learns the fundamental structures of programming, data types, and file input/

output. Algorithms will be developed by hand and programming will be done in a popular programming language.

Prerequisite: MATH 0930 or equivalent with a grade of “C” or better. Previous experience with computers and programming is recommended but not required.

3 hours lecture, 2 hours lab.

1030 Computer Science I, Programming with C++ (4) (O)

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 the laboratory portion supplement the discussion.

Prerequisite: MATH 0930 and COSC 1010 with a grade of “C” or better.

3 hours lecture, 2 hours lab.

1200 Computer Information Systems (3) (Fa, Sp)

An introduction to computers and information processing, computer systems, hardware, computer software, information processing systems, and management information systems. Spreadsheet, data base, and word processing software are used extensively by the student in applying program capabilities to practical business problems. Students who earn credit in COSC 1200 cannot earn credit in CMAP 1900.

Prerequisite: MATH 0920 with a grade of “C” or better or appropriate score on math placement exam.

2 hours lecture, 2 hours lab.

Construction Technology (CNTK)

1510 Safety and Tools in Construction (3) (O)

This course is designed to familiarize students with OSHA safety rules and regulations related to residential construction. Topics include safety laws, proper identification of hand and power tools, safe use of hand and power tools, and maintenance of hand and power tools.

2 hours lecture, 2 hours lab.

1520 Residential Blueprint Reading (3) (O)

This course is a study of basic principles of interpreting blueprints and plans along with reading of specifications basic to the building trades.

Prerequisite: CNTK 1510 with a grade of “C” or better, or concurrent enrollment in CNTK 1510.

2 hours lecture, 2 hours lab.

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1530 Site Preparation (3) (0)

This course is designed to help students learn the techniques of site preparation for a residential house. Topics include site selection, legal requirements, location of property corners, layout of house location, establishing grades, and designing adequate drainage.

2 hours lecture, 2 hours lab.

1540 Foundation Systems (3) (0)

This course is designed to help students learn the techniques of foundation preparation according to the International Building Codes. Topics include types of foundation forms, form installation and removal techniques, OSHA trenching and fall protection regulations, planning concrete layout, and concrete placement. Prerequisite: CNTK 1530 with a grade of “C” or better, or concurrent enrollment in CNTK 1530.

2 hours lecture, 2 hours lab.

1550 Concrete Flatwork (2) (0)

A course designed to help students learn the techniques of and skills associated with concrete flatwork according to the current Uniform Building Codes. Topics include concrete types, concrete preparation, estimating materials, types of concrete application, forming, and finishing methods.

1 hour lecture, 2 hours lab.

1650 Framing: Floors and Stairs (2) (0)

This course is designed to provide students with the skills necessary to plan, select, estimate, and install floor systems and stairs in a residential house that meet the current International Building Codes and industry standards.

Prerequisite: CNTK 1520 with a grade of “C” or better, or concurrent enrollment in CNTK 1520.
1 hour lecture, 2 hours lab.

1652 Framing: Walls, Windows, and Exterior Doors (2) (0)

This course is designed to provide students with the skills necessary to plan, select, estimate, and install wall systems, window applications, and exterior doors. Students become knowledgeable about layout procedures for interior and exterior walls in a residential house that meet the current International Building Codes, industry standards, and manufacturers’ specifications. Students also acquire knowledge about the different types, application and materials used on exterior doors. Prerequisite: CNTK 1650 with a grade of “C” or better, or concurrent enrollment in CNTK 1650.

1 hour lecture, 2 hours lab.

1654 Framing: Roof (2) (0)

This course is designed to provide students with the skills necessary to plan, select, estimate, and install roof systems. Students install a roof on a residential house. The installation meets the current International Building Codes, industry standards, and manufacturers’ specifications. Students become knowledgeable about different types of framing methods and roof covering materials and applications.

Prerequisite: CNTK 1652 with a grade of “C” or better, or concurrent enrollment in CNTK 1652.

1 hour lecture, 2 hours lab.

1658 Exterior: Siding, Trim, and Finishes (2) (0)

This course is designed to provide students with the knowledge and skills necessary to identify, select, estimate, and install exterior siding, trim, and finishes for a residential house. The installation meets the established industry standards, and manufacturers’ specifications.

Prerequisite: CNTK 1654 with a grade of “C” or better, or concurrent enrollment in CNTK 1654.

1 hour lecture, 2 hours lab.

1760 Mechanical Systems: Heating (2) (0)

This course is designed to provide students with the knowledge and skills necessary to identify, select, and estimate heating system materials and to install a heating system in a residential house. The installation meets the established current industry standards, and manufacturers’ specifications.

1 hour lecture, 2 hours lab

1762 Mechanical Systems: Plumbing (2) (0)

This course is designed to provide students with the knowledge and skills necessary to identify, select, and estimate plumbing materials and to install a plumbing system in a residential house. The installation meets current industry standards, and manufacturers’ specifications.

1 hour lecture, 2 hours lab

1764 Mechanical Systems: Electrical (2) (0)

This course is designed to provide students with the knowledge and skills necessary to identify, select, and estimate electrical system materials and to install an electrical system in a residential house. The installation meets current industry standards, and manufacturers’ specifications.

1 hour lecture, 2 hours lab

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1880 Interior: Drywall Applications (2) (0)

This course is designed to provide students with the knowledge and skills necessary to plan, select, estimate, and install interior drywall systems. Installations meet established industry standards, and manufacturers' specifications.
1 hour lecture, 2 hours lab.

1882 Interior: Taping, Mudding, and Texturing (2) (0)

This course is designed to provide students with the knowledge and skills necessary to plan, select, estimate, and install taping, mudding, and texturing systems. Installations meet established industry standards, and manufacturers' specifications.
1 hour lecture, 2 hours lab.

1884 Interior: Painting and Wallpaper (2) (0)

This course is designed to provide students with the knowledge and skills necessary to plan, select, estimate, and install paint and wallpaper systems. Installations meet established industry standards, and manufacturers' specifications.
1 hour lecture, 2 hours lab.

1920 Interior Trim: Closets (2) (0)

This course is designed to provide students with the knowledge and skills necessary to plan, design, estimate, and install closet systems in a residential house. Installations meet established industry standards, and manufacturers' specifications. Students become knowledgeable about different types and materials of closet hardware and accessories.
1 hour lecture, 2 hours lab.

1924 Interior Trim: Cabinets (2) (0)

This course is designed to provide students with the knowledge and skills necessary to plan, design, estimate, and install closet systems in a residential house. Installations meet established industry standards, and manufacturers' specifications. Students acquire knowledge about cabinet hardware and accessories.
1 hour lecture, 2 hours lab.

1926 Interior Trim: Moldings (2) (0)

This course is designed to provide students with the knowledge and skills necessary to plan, select, estimate, and install molding systems in a residential house. Installations meet established industry standards, and manufacturers' specifications. Students acquire knowledge about different types and materials of molding.
1 hour lecture, 2 hours lab.

Cosmetology (CSMO)

1000 Intro to Nail Technology (6) (Fa, Sp)

This course provides a complete guide to basic nail technology as it applies to the hands and feet. Prerequisite: Enrollment in Cosmetology or Nail Technology.
190 hours lab.

1010 Intro to Skin Technology (6) (Sp)

This course is an introduction into the structure of the skin, its functions and treatments. Applications will include facial procedures, brow shaping, proper and safe application of make up. Prerequisite: Enrollment in Cosmetology or Skin Technician.
90 hours lecture.

1015 Skin Technology Lab (1) (Sp)

This is an opportunity for the skin tech student to work through the applications taught in CSMO 1010. It is limited to a skin technician student only. Prerequisite: Enrollment in Skin Technician program.
45 contact hours.

1020 Intro to Hair Technology (4) (Fa, Sp)

This is an introductory course into the key concepts of hair design. Hair structure, treatments, design principles, chemical services, tools and safety will be covered. Prerequisite: Enrollment in Cosmetology A.A.S. or Hair Technician Certificate.
180 contact hours.

1075 Pre-Clinic Assessment (1) (Fa)

This course is a required segment of the Cosmetology Curriculum to assess the knowledge and skill level of key applications for progression to the clinic area. Prerequisite: Enrollment in Cosmetology Program.
35 hours lab.

1100 Nail Technician Clinicals (6) (Fa, Sp)

This lab is the opportunity for Nail Technicians to practice all applications on the public. Prerequisite: Enrollment in Nail Technician program and completion of CSMO 1000 with a grade of "C" or better.
190 contact hours.

1175 Nail Technician Assessment (1) (Fa, Sp)

This comprehensive exam is a three day

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procedure. It assesses the Nail Tech student's skill level for exiting the program and to make application to take the National Nail Technician exam.

Prerequisite: Enrollment in Nail Tech program and completion of CSMO 1100 with a grade of "C" or better.

35 hours lab.

1210 Esthetics Concepts I (4) (Sp)

This esthetic course is a comprehensive, more in-depth study into the morphology and treatments of the skin, and the technological tools used.

Prerequisite: Enrollment in Skin Technician program and completion of CSMO 1010 with a grade of "C" or better.

65 hours lecture.

1215 Esthetics Clinicals I (4) (Sp)

This clinical will focus on the hands on application techniques of subjects covered in CSMO 1210.

Prerequisite: Enrollment in Skin Technician program and completion of CSMO 1010 with a grade of "C" or better.

184 clinic floor hours.

1220 Esthetics Concepts II (3) (Su)

This course begins to explore the areas of advanced clinical skin care, spa body treatments and color theory.

Prerequisite: Enrollment in Skin Technician program and completion of CSMO 1210 with a grade of "C" or better.

140 contact hours.

1225 Esthetics Clinicals II (3) (Su)

This clinical application course is intended for the student to practice and assess their application skills and complete the required number of hours required to make application to take the National Examination for Esthetics.

Prerequisite: Enrollment in Skin Technician program and completion of CSMO 1215 with a grade of "C" or better.

90 hours lab.

1275 Esthetics Assessment (1) (Su)

This is a comprehensive examination intended to evaluate the students' level of competency in the area of esthetics.

Prerequisite: Completion of CSMO 1010 and CSMO 1015 with a grade of "C" or better.

30 hours lab.

1370 Hair Assessment Overview (1) (Fa)

This is a preparatory course designed for the Hair Technician to prepare and practice specific tasks orientated towards the National Examination for Hair Technician.

Prerequisite: Enrollment in Hair Technician program and completion of CSMO 1020 with a grade of "C" or better.

35 hours lab.

1375 Hair Technician Assessment (1) (Fa)

A comprehensive assessment intended to evaluate the students' level or competency in the area of hair technology.

Prerequisite: Enrollment in Hair Technician program and completion of CSMO 1020 with a grade of "C" or better.

35 hours lab.

1400 Cosmetology Lab I (1) (Sp)

This is the first of five lab/lectures intended for Cosmetology students to perform and practice hands on skills necessary for clinical applications.

Prerequisite: Completion of CSMO 1020 with a grade of "C" or better.

45 contact hours.

1405 Cosmetology Lab II (1) (Sp)

This is intended for Cosmetology students and the only lab/lecture for the Hair Technician student to perform and practice hands on skills necessary for clinical applications.

Prerequisite: Completion of CSMO 1020 with a grade of "C" or better.

45 contact hours.

1410 Cosmetology Lab III (1) (Fa)

This is intended for Cosmetology students to perform and practice hands on skill necessary for clinical applications.

Prerequisite: Completion of CSMO 1020 with a grade of "C" or better.

45 contact hours.

1415 Cosmetology Lab IV (1) (Fa)

This is intended for Cosmetology students to perform and practice hands on skills necessary for clinical applications.

Prerequisite: Completion of CSMO 1020 with a grade of "C" or better.

45 contact hours.

1420 Cosmetology Lab V (1-2) (Sp)

This is intended for Cosmetology students to perform and practice hands on skills necessary for clinical applications. Depending on the number

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of clock hours the student needs to complete the Cosmetology A.A.S., this class may not run the entire semester.

Prerequisite: Completion of CSMO 1020 with a grade of “C” or better.
45-90 contact hours.

1425 Techniques in Cosmetology (6) (Su)

This course will explore new and innovative techniques as they relate to the areas of cosmetology.

Prerequisite: Completion of CSMO 1075 with a grade of “C” or better.
90 hours lecture.

1430 Cosmetology Mentorship (1) (Sp)

This course is intended for the student finishing the required hours to become a mentor for a group of students. The mentor will “manage” the portfolio set up for the salon, and will be required to guide the business practices that normally follow.

Prerequisite: Completion of CSMO 1075 with a grade of “C” or better.
45 contact hours.

1500 Clinical Applications I (5) (Sp)

This course is one of five clinical applications that will focus on the hands on application techniques in all areas of cosmetology on the public.

Prerequisite: Completion of CSMO 1075 with a grade of “C” or better.
120 hours lab.

1505 Clinical Applications II (4) (Sp)

This is the second of five clinical applications for the cosmetology student and the first of five for the hair technician student. It focuses on the hands on application techniques in all areas of cosmetology to the public for the cosmetology student; however it is limited to only practicing hair services for the hair technician student.

Prerequisite: Completion of CSMO 1075 with a grade of “C” or better.
180 contact hours.

1510 Clinical Applications III (5) (Fa)

This is the third of five regular blocked clinical applications for the cosmetology student and the second of five for the hair technician student.

Prerequisite: Completion of CSMO 1075 or CSMO 1535 with a grade of “C” or better.
225 contact hours.

1515 Clinical Applications IV (5) (Fa)

This is the fourth of five regular blocked clinical applications for the cosmetology student and the third of five for the hair technician student.

Prerequisite: Completion of CSMO 1075 with a grade of “C” or better.
225 contact hours.

1520 Clinical Applications V (5) (Fa, Sp)

This course is five of five regular blocked (not including summer) clinical applications for the cosmetology student.

Prerequisite: Completion of CSMO 1075 with a grade of “C” or better.
225 contact hours.

1525 Clinical Applications VI (1-5) (Fa, Sp)

This course is clinical applications for the cosmetology student.

Prerequisite: Completion of CSMO 1075 with a grade of “C” or better.
45-225 contact hours.

1530 Clinical Applications VII (1) (Su)

This is an optional clinical application for the cosmetology student; however this is two of five of the required clinical applications for a hair technician student. The focus will be on specific techniques in hair design.

Prerequisite: Completion of CSMO 1020 and CSMO 1550 with a grade of “C” or better.
30 hours lab.

1535 Clinical Applications VIII (5) (Su)

This is the second optional clinical application for the cosmetology student; however this is three of five of the required clinical applications for a hair technician student. The focus will be on specific techniques in hair design.

Prerequisite: Completion of CSMO 1075 with a grade of “C” or better.
225 contact hours.

1550 General Cosmetology Science (3) (Fa, Sp)

This course will explore the cosmetology sciences. This is a broad exploration into infection control, anatomy and physiology, electricity and basic cosmetology chemistry.

Prerequisite: Concurrent enrollment in one of the following: CSMO 1000, CSMO 1010, or CSMO 1020.
45 hours lecture.

1560 Skin and Nail Technology (2) (Fa, Sp)

This course will explore the in-depth structure, growth and diseases of the skin and nail,

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ingredient technology, its safety and usage.
Prerequisite: Enrollment in or completion of CSMO 1000 with a grade of "C" or better.
30 hours lecture.

1570 Assessment Overview (2) (Fa, Sp, Su)

This is a preparatory course designed for the cosmetology student to prepare and practice specific tasks orientated towards the National Examination for Cosmetology.
Prerequisite: Completion of CSMO 1075 with a grade of "C" or better.
30 hours lecture.

1575 Cosmetology Assessment (1) (Fa, Sp, Su)

A comprehensive assessment intended to evaluate the students' level of competency in the area of cosmetology.
Prerequisite: Enrollment in Cosmetology program.
35 hours lab.

Criminal Justice (CRMJ)

1510 Law Enforcement Procedures (3) (Fa)

This course covers basic law enforcement operations including patrol procedures, traffic enforcement, police report writing, field interviews, problem solving, first responses to emergencies, and police ethics and discretion.
Prerequisite: CRMJ 2120 or concurrent enrollment.
3 hours lecture.

1520 Law Enforcement Operations (3) (Sp)

This course covers community policing practices, using an interdisciplinary problem solving approach to solving, police-community relations, crime prevention programs, and interagency operations.
Prerequisite: CRMJ 2120 or concurrent enrollment.
3 hours lecture.

2120 Introduction to Criminal Justice (3) (Fa, Sp, Su)

This course introduces the student to the study of criminal justice. It covers the philosophy and history of law enforcement, the judicial system, and corrections. Major issues facing these disciplines are also covered.
3 hours lecture.

2125 Forensic Psychology (3) (Sp)

This course introduces the criminal justice/

social science major to the uses of psychology in the field. Topics covered include basic criminal profiling, suspect interviewing, psychological theories of crime/delinquency, victimology, legal applications of psychology in conducting assessments, and correctional psychology.
Prerequisite: PSYC 1000 (General Psychology) and CRMJ 2120 (Introduction to Criminal Justice) or permission of Instructor.
3 lecture hours.

2210 Criminal Law I (3) (Sp)

The course deals with the broad spectrum of criminal law and the procedures of criminal justice. Substantive criminal law, criminal procedures and roles of evidence that are of importance to the law enforcement officer are studied. The course builds a sound base for a more advanced study of criminal law. Also included may be other relevant subject matter the instructor feels is necessary.
Prerequisite: CRMJ 2120 with a grade of "C" or better.
3 hours lecture.

2250 Criminal Justice Administration (3) (O)

An introduction to the theories of organization and administration in law enforcement and corrections. Topics covered include police and corrections history, comparisons of various organizational systems, and the study of police/correctional operations.
3 hours lecture.

2280 Criminal Procedures (3) (Fa)

This course deals with procedural problems that occur in processing an individual through the criminal justice system with special emphasis on search and seizure.
Prerequisite: CRMJ 2120 with a grade of "C" or better.
3 hours lecture.

2350 Introduction to Corrections II/I (3) (Fa)

A general course describing the history and evolution of the corrections process. Covers all aspects of institutional and community based corrections.
3 hours lecture.

2370 Institutional Corrections (3) (Sp)

This course covers the history and current status of institutional correctional facilities including prisons, jails, and intermediate units. Programs, procedures, institutional culture and

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administration are covered.

Prerequisite: CRMJ 2120 (Introduction to Criminal Justice) and CRMJ 2350 (Introductions to Corrections) or permission of instructor.
3 hours lecture.

2400 Criminology (3) (O)

An introduction to the study of the nature and causes of criminal behavior. Biological, psychological, and sociological theories are examined. Types of criminal behavior, historical perspectives, crime statistics, and current trends are also covered.

Prerequisite: SOC 1000 with a grade of "C" or better.
3 hours lecture.

2420 Juvenile Justice (3) (O)

This course is designed as an introduction to the field of juvenile justice. It will cover all the aspects of the juvenile justice system, from early history reform schools to the progressive development centers of today, along with alternatives to incarceration. This course will follow the evolution of the courts and the laws pertaining to the juvenile.

Prerequisites: CRMJ 2120 with a grade of "C" or better.
3 hours lecture.

2550 Criminal Investigation I (3) (Sp)

A course relating to the fundamentals of investigation. Included are crime scene search, sketching and recording, collection and preservation of physical evidence, scientific aids, sources of information, interviewing and interrogation, modus operandi, and case preparation.

3 hours lecture.

2560 Criminal Investigation II (3) (Fa)

The study of various crimes and investigative techniques from the initial report through the final disposition of the case.

Prerequisite: CRMJ 2550 with a grade of "C" or better.
3 hours lecture.

2570 Criminalistics (Forensics) (3) (Sp)

Introduces the student to the collection, preservation and analysis of biological, chemical, physical and other forensic evidence from the crime scene. Also includes work with trace evidence including hair, fibers, etc. Instruction will encompass crime scene management and evidence collection as well as laboratory analysis

procedures.

Prerequisite: BIOL 1000 or BIOL 1010, CRMJ 2120 and CRMJ 2550 with a grade of "C" or better.

2 hours lecture, 2 hours lab.

2590 Drugs & Criminal Justice (3) (Sp)

This course covers the physiology and chemistry of abused substances. Also addressed are the history and evolution of drug regulations including the current status of the Controlled Substance Act. Detection, identification, and drug enforcement are also covered.

Prerequisite: CRMJ 2120 (Introduction to Criminal Justice) or permission of instructor.
3 hours lecture.

2690 Supervised Lab Experience (3) (O)

This course exposes the criminal justice major to the various work settings in the field. The student will rotate between placements with law enforcement, detention, corrections, and communications. The schedules will be variable and depend upon availability at each site. Approximately 8-10 hours per week at the assigned site will be required, as will weekly meetings with the instructor.

Prerequisite: Criminal Justice major, sophomore standing, approval of criminal justice agencies.
1 hour lecture, 4 hours lab.

2781 Use of Force I (3) (Fa)

Introduces the criminal justice major to the use of force. Non-lethal force and the escalation of force is covered, as are legal and ethical concerns. Instruction is provided in the use and care of police sidearms including the service revolver and semiautomatic pistol.

Prerequisite: Criminal justice major.
2 hours lecture, 2 hours lab.

2791 Use of Force II (3) (Sp)

This is the second course in the use of force sequence. It includes continued use of the police sidearm with the goal of increasing proficiency. It also introduces the student to the use of the police rifle, shotgun, and special weapons and tactics such as the use of tear gas and explosive devices.

Prerequisite: CRMJ 2120 (Introduction to Criminal Justice) and CRMJ 2781 (Use of Force I) with a grade of "C" or better.
2 hours lecture, 2 hours lab.

Courses of Instruction

2895 Criminal Justice Capstone Project (1) (Fa, Sp)

This course is designed as a review for the Criminal Justice major. Syllabi from all CJ classes will be reviewed and all objectives will be discussed and tied together showing the interaction and interconnectiveness of the Criminal Justice System. This course is offered for S/U grade only.

Prerequisite: Sophomore status as Criminal Justice major set to graduate at the end of same semester.

1 hour lecture.

Additional criminal justice courses will be offered at the Wyoming Law Enforcement Academy. Course descriptions are available from the office of the Vice President for Learning.

Crop Science-Agriculture (CROP)

1150 Pesticide Safety and Application (3) (0)

In this course, basic chemical principles are reviewed and applied to an in-depth study of herbicides, insecticides, and fertilizers. Students become familiar with selection methods and rates. They also learn about laws governing purchase and use of insecticides and fertilizers. Particular attention is given to environmental concerns. The integrated pest management approach to total pest control is stressed.

3 hours lecture.

2200 Forage Crop Science (3) (Sp)

A general course dealing with forage and commercial crops including methods of seeding, cultivation, harvest, selection, grading, and variety improvement. History and importance of legumes, grasses, and cash crops when used as forages.

Prerequisites: BIOL 2020 with a grade of "C" or better.

2 hours lecture, 2 hours lab.

Economics (ECON)

1010 Macroeconomics (3) (Fa)

A description and analysis of national income, business cycles, income distribution, governmental economic policies, the banking system, and monetary and fiscal policy. Students cannot earn credit for both ECON 1010 and AGECE 1010.

3 hours lecture.

1020 Microeconomics (3) (Sp)

A description and analysis of price determination, resource allocation, market structures, international economics, and current economic issues.

3 hours lecture.

Education (EDUC)

1500 Multicultural Awareness (3) (0)

An introduction to the impact of family relationships and cultural diversity in American society for educators and child care providers. Family patterns and the diverse characteristics of ethnicity, race, exceptionality, class, and religion will be examined.

3 hours lecture.

1501 Effective Substitute Teaching (2-3) (0)

The objectives of this course are to: understand professional ethics and responsibilities; expand awareness of classroom management techniques; increase knowledge of effective teaching behaviors; and develop a teaching resource file. Not applicable toward EWC graduation requirements. May be applied toward electives. This course is offered for S/U grade only.

Prerequisite: Concurrent enrollment in EDUC 2005 or documented DFS Pre-screen or criminal background check within previous 24 months.

Contact hours vary depending on credit hours.
2 credits = 25 hours lecture, 20 hours classroom observation

3 credits = 25 hours lecture, 30 hours classroom observation

1515 Effective Literary Strategies (1-2) (0)

The Wyoming Writing Institute—Effective Reading/Writing Strategies is offered in the field to teachers, para-professionals, and other staff associated with a school district as requested by the district. All pertinent staff members take the course as a part of a staff development plan requiring training of all staff. This training focuses on standards-based literary structures—

—writers’ workshop, literary circles, and guided reading— with the focus of growing students to attain success in reading, writing, listening, and speaking.

2005 Pre-Screen for Practicum in Teaching (0) (0)

This course completes the process necessary for the background check required prior to participating in any K-12 field experience.

2100 Practicum in Teaching (2-3, Maximum 6) (Fa, Sp)

Students will participate in an extensive practicum experience for prospective educators in an accredited school under the supervision of a certified teacher.

Prerequisite: Educational Foundations 2020 with a grade of “C” or better, or 400 clock hours employed in an educational setting. Concurrent enrollment in EDUC 2005 or documented DFS pre-screen or criminal background check within previous 24 months.

2105 Tutorial Instruction (1-2, Maximum 4) (0)

This course is designed to provide the student with practical experience as a tutor in a specific academic discipline in which the student has demonstrated both interest and effectiveness. A tutor must be selected by an Eastern Wyoming College instructor and must work at least 3 hours a week to receive 1 credit. In order to receive 2 credits, a tutor must work at least 6 hours per week. This course is offered for S/U grade only.

2150 Creative Activities (2) (0)

This course provides basic instruction in methods which encourage creativity, imagination, concept formation and self-expression in children through the use of appropriate activities and materials. Dramatic play, language development, arts, crafts, and activities to stimulate cognitive development will be included.
2 hours lecture.

2220 Multi-Cultural Education (1) (0)

This is an introductory class designed to give the student an overview of some of the many aspects of multicultural education. The course focuses on a multitude of multicultural activities which can be incorporated across the curriculum. These activities involve student research, observation, and participation. They will assist educators in laying a foundation for their students for national and internal citizenship in the 21st century.
1 hour lecture.

Education-Early Childhood (EDEC)

1020 Introduction to Early Childhood Education (3) (0)

This course is designed to introduce students to the study of early childhood education— preschool through the primary grades. The student will study the types, objectives and philosophies of various early childhood programs. The course addresses a wide range of issues related to young children and their education through lectures, discussion and observation.
3 hours lecture.

1100 Observation and Guidance of Young Children (2) (Sp)

This course provides effective methods of observation and guidance to meet children’s needs individually and in groups with an emphasis on promoting a positive and constructive climate in the early childhood setting. Topics include assessment, recording behaviors, planning environments, materials and equipment, scheduling, discipline and parent-teacher communication.

Prerequisite: EDEC 1020 and FCSC 2121 with grades of “C” or better.
2 hours lecture.

1105 Observation and Guidance of Young Children Lab (1) (Sp)

This course provides supervised experience in the observation and guidance of young children at an early childhood center.
Prerequisite: EDEC 1100 (or concurrent enrollment). Enrollment in EDUC 2005 or documented DFS pre-screen or criminal background check within previous 24 months.
2 hours lab.

1200 Administration in Early Childhood Programs (3) (Fa)

This course is designed to develop skills in both business and human relations components of administering child care for young children. Content includes procedures in establishing early childhood centers, administering paperwork, fiscal management, selection, development and motivation of staff, parent and community involvement strategies, and program regulations and evaluation.

Prerequisite: Successful completion of or concurrent enrollment in EDEC 1020-Introduction to Early Childhood Education.
3 hours lecture.

Courses of Instruction

1300 Curriculum Planning and Development for Young Children (2) (Sp)

This course will focus on the development of skills in planning, implementing and evaluating developmentally appropriate experiences to encourage intellectual, physical, social, emotional, and creative growth in young children. The focus will be on the concept of optimum development of the whole child. Prerequisite: EDEC 1020, FCSC 2121 with grades of "C" or better. 2 hours lecture.

1305 Curriculum Planning and Development for Young Children Lab (1) (Sp)

This course will provide the opportunity for students to engage in supervised experiences in planning, implementing, and evaluating curricular activities in an early childhood program. Prerequisite: Successful completion of or concurrent enrollment in EDEC 1300. Enrollment in EDUC 2005 or documented DFS pre-screen or criminal background check within previous 24 months. 2 hours lab.

1480 CDA-Child Development Associate Seminar (3) (O)

This course is designed to prepare candidates for the assessment process for the Child Development Associate credential. This course is intended to assist the student in preparing the Professional Resource File, The Parent Opinion Questionnaire and prepare for the national examination and Verification visit. Prerequisite: Students must be 18 years of age, hold a high school diploma or GED, have 480 hours of experience working with children within the past five years and have 120 clock hours of formal child care education within the past five years. This course is offered for a S/U grade only.

Education-Elementary (EDEL)

1410 Elementary School Math Seminar I (1) (Fa)

This course is designed to discuss strategies and instructional activities used in Theory of Arithmetic I and to be a linkage between what the prospective teachers study and what they will teach. It provides the opportunity to discuss appropriate activities, strategies and programs in teaching areas related to problem solving and to the use of whole numbers, rational numbers, and real numbers. Prerequisite: Concurrent enrollment in MATH 1100. 1 hour lecture.

1430 Life Science in the Elementary School (1) (Sp)

Covers selection of basic life science concepts, materials and curricula appropriate for elementary school. This course parallels the content of Biology 1000 or 1010 and previous or concurrent enrollment is ideal, but not required. 1 hour lecture.

1440 Physical Science in the Elementary School (1) (Sp)

Covers selection of basic physical science concepts, materials and curricula appropriate for elementary school. This course parallels the content in PHYS 1090 and previous or concurrent enrollment in a physics or chemistry course is ideal but not required. 1 hour lecture.

1450 Earth Science in the Elementary School (1) (O)

This course covers the selection of basic earth science concepts to the teaching of elementary students. The course includes topics in geography, meteorology, geology, and astronomy. 1 hour lecture.

2420 Elementary School Math Seminar II (1) (Sp)

This course is designed to discuss strategies and instructional activities used in Theory of Arithmetic II and to be a linkage between what the prospective teachers study and what they will teach. It provides the opportunity to discuss appropriate activities, strategies and programs in teaching areas related to probability, statistics, and geometric concepts. Prerequisite: Concurrent enrollment in MATH 1105. 1 hour lecture.

Courses of Instruction

Education-Educational Foundations (EDFD)

2020 Foundations of Education (3) (Fa, Sp)

A basic course for those preparing for a teaching career. This experience supplies a critical examination of educational thought and practice in the United States viewed as a phase of social progress. The study will include classroom observations as well.
3 hours lecture.

2100 Educational Psychology (3) (Sp)

Students will demonstrate knowledge and understanding of psychological concepts, principles, and research relevant to teaching and learning with an emphasis on the school setting. Prerequisite: EDFD 2020 and PSYC 1000 with a grade of "C" or better.
3 hours lecture.

2451 Life Span: Adulthood (1) (O)

This course provides a psychosocial overview of human development during the adult years. Issues of physical, psychological, social and emotional development will be explored. Prerequisite: PSYC 2300 with a grade of "C" or better or concurrent enrollment.
1 hour lecture.

Education-Exceptional Children (EDEX)

2484 Introduction to Special Education (3) (Sp)

This course is designed to meet the needs of education majors for a required course in special education. Prerequisite: Successful completion of EDFD 2020 with a grade of "C" or better AND successful completion of or concurrent enrollment in EDUC 2100 Practicum in Teaching.
3 hours lecture.

Electrical Technology (ELTR)

1515 Electrical Concepts (2) (Fa, Sp, O)

This course introduces students to A/C and D/C electricity. This will include the principles of voltage, current, resistance and power. Students will use electrical meters for measuring and reinforcing Ohm's law.
2 hours lecture.

Engineering Technology (ENTK)

1510 Drafting I (1) (Fa)

This course is an introduction to the fundamental techniques of drafting with the use of drafting instruments and freehand sketching of pictorial and multiview drawings, including the skills of dimensioning and lettering.
1/2 hour lecture, 1 hour lab.

2500 Computer Aided Drafting I (1) (O)

This course is an introduction to Computer Aided Drafting (CAD). The content of this course is designed to provide the student with a basic understanding of CAD program features and explore drafting and design essentials in a 2-dimensional format. Coursework is valuable for anyone needing to prepare, interpret, or use virtually any type of drawings, plans, schematics, or other technical graphic communication documents.

Prerequisite: Previous experience with computers is recommended.
1/2 hour lecture, 1 hour lab.

2505 Computer Aided Drafting II (1) (O)

This course is a continuation of Computer Aided Drafting I. The content of this course is designed to provide the student with an advanced understanding of CAD program features and further explore drafting and design essentials in a 2-dimensional format. Coursework is valuable for anyone needing to prepare, interpret, or use virtually any type of drawings, plans, schematics, or other technical graphic communication documents.

Prerequisite: ENTK 2500 with a grade of "C" or better.
1/2 hour lecture, 1 hour lab.

2510 Computer Aided Drafting III (1) (O)

This course is a continuation of CAD I and CAD II. The content of this course is designed to provide the student with a comprehensive understanding of CAD program features and drafting and design techniques in a 2-dimensional format. Focus will be on the creation of presentation quality drawings and prints. Students will be introduced to a 3-dimensional design using wire-frame and solid modeling techniques. Coursework is valuable for students transferring CAD credits to a four-year institution, or for anyone needing to prepare, interpret, or use virtually any type of drawings,

Courses of Instruction

plans, schematics, or other technical graphic communication documents.

Prerequisite: ENTK 2500 and ENTK 2505 with a grade of “C” or better.

1/2 hour lecture, 1 hour lab

English (ENGL)

0100 English as a Second Language (3) (O)

This course is designed to develop the basic writing skills of the high-beginning level ESL learner through daily assignments, the development of the paragraph and essay, and the study of grammatical structures relevant to various writing genres. Learners will examine and practice writing three rhetorical forms: Chronological process, spatial description and listing using specific descriptive details, reasons and examples.

Prerequisite: IBTTOEFL: 61 or Computer-based TOEFL: 173 or Paper-based TOEFL: 500
3 hours lecture.

0620 Foundations of Grammar (3) (O)

Study of English grammar with emphasis on word formation. Grading in this course will be based on student progress. A final grade of “C” or better does not necessarily indicate readiness for the next course in the sequence.

Prerequisite: Appropriate score on the placement examination.
3 hours lecture.

0630 Grammar and Writing Improvement (3) (Fa, Sp)

The study of English grammar with emphasis on sentence formation.

Prerequisite: Appropriate score on the placement examination.
3 hours lecture.

0640 Writing Skills (3) (Fa, Sp)

Instruction, reading, and writing practice in the organization of short compositions. Review of sentence elements and of usage as necessary. This course may be used as a preparatory course for students who plan to enroll in English 1010.

Prerequisite: Appropriate score on the placement examination or DVST 0630 with a grade of “C” or better.
3 hours lecture.

1010 English I: Composition (3) (Fa, Sp)

Instruction, reading, and writing practice in the fundamentals of composition, including essay assignments such as expository, argumentative, persuasive, comparison and contrast, analysis, and research papers.

Prerequisite: ENGL 0640 with a grade of “C” or better or appropriate score on placement exam.
3 hours lecture.

1020 English II (3) (Fa, Sp)

An introductory study of literature in its varied forms, such as poetry, drama, short fiction, novels, and literary nonfiction. Several composition assignments requiring students to write about literary works.

Prerequisite: ENGL 1010 with a grade of “C” or better.
3 hours lecture.

2050 Creative Writing—Introduction to Fiction (3) (Fa)

This course deals with an analysis of the forms of fiction and the practice of creative writing at an introductory level.

Prerequisite: ENGL 1020 with a grade of “C” or better.
3 hours lecture.

2140 World Literature (3) (O)

This course focuses on the major literary works representative of the significant periods in the history of Western civilization. Through reading, study and discussion, students explore literature from Homer through the medieval period of Chaucer.

Prerequisite: ENGL 1020 with a grade of “C” or better.
3 hours lecture.

2210 English Literature I (3) (O)

A survey of major British authors and literary movements. The first semester covers British literature from the Old English period through Neo-Classical period.

Prerequisite: ENGL 1020 with a grade of “C” or better.
3 hours lecture.

2220 English Literature II (3) (O)

A continuation of English 2210. The second semester covers writers and literary movements from the Romantic period to the present.

Prerequisite: ENGL 1020 with a grade of “C” or better.
3 hours lecture.

Courses of Instruction

2310 American Literature I (3) (O)

A survey of major American authors and literary movements. The first semester covers American literature from the early 1600's through the mid-19th century.

Prerequisite: ENGL 1020 with a grade of "C" or better.

3 hours lecture.

2320 American Literature II (3) (O)

A continuation of English 2310. The second semester covers literature from the mid-19th century to the present.

Prerequisite: ENGL 1020 with a grade of "C" or better.

3 hours lecture.

2370 Western American Literature (3) (O)

A survey of works by major writers of Western fiction and nonfiction, including short stories, novels, and autobiographies. Includes works with both historical and modern settings.

Prerequisite: ENGL 1010 with a grade of "C" or better.

3 hours lecture.

2440 Literary Genres: Short Story (3) (O)

Examination of the short story as a literary genre. Includes reading of short stories by writers of international rank, emphasizing but not necessarily limited to British, American, and Canadian writers. Includes writing essays of analysis.

Prerequisite: ENGL 1010 with a grade of "C" or better.

3 hours lecture.

2480 Literary Genres: Drama (3) (O)

Reading of plays to acquaint students with problems and possibilities of drama as a genre.

Prerequisite: ENGL 1020 with a grade of "C" or better.

3 hours lecture.

Equine Studies (EQST)

1570 Horseshoeing I (1) (Fa)

This course will include a study of the hoof in general, shaping shoes, trimming, and placement.
½ hour lecture, 1 hour lab.

1580 Horseshoeing II (1) (Sp)

This course deals with the detection of hoof problems, determination of causes for such problems, and the proper method of treatment

to correct these problems. Students will be required to shoe a minimum of one horse without assistance before completion.

Prerequisite: EQST 1570 with a grade of "C" or better.

½ hour lecture, 1 hour lab.

1725 Rodeo Rough Stock I (2) (Fa)

This is the first course in a series of rodeo rough stock events classes. Students will learn the rules of the different rough stock events, safety procedures for each of the events, proper equipment for each of the events, and the correct use for each piece of equipment. Lab sessions will deal with practical application of material that is presented in the lecture. A \$30 fee will be charged for this course. Verification of a NIRA card will be required. A student may enroll in only one rodeo event class or one rough stock class per semester.

1 hour lecture, 2 hours lab.

1730 Rodeo Rough Stock II (2) (Sp)

This is the second course in a series of rodeo rough stock events classes. Students will learn about physical fitness for the rough stock competitor, development of a positive competitive attitude, communication skills as a rodeo competitor, humane treatment of bucking horses and bulls, application of support devices for the competitor, entering rodeos, and selection of proper attire. Lab sessions will deal with practical application of material that is presented in the lecture. A \$30 fee will be charged for this course. Verification of a NIRA card will be required. A student may enroll in only one rodeo event class or one rough stock class per semester.
1 hour lecture, 2 hours lab.

1740 Rodeo Timed Events I (2) (Fa)

This is the first course in a series of rodeo timed events classes. Students will learn the rules of the different timed events, safety procedures for each of the events, proper tack for the events, and rules and regulations regarding brand inspections and health certificates. Lab sessions will deal with practical applications of material that is presented in the lecture. A \$30 fee will be charged for this course. Verification of a NIRA card will be required. Students may enroll in only one rodeo event class or one rough stock class per semester.
1 hour lecture, 2 hours lab.

Courses of Instruction

1750 Rodeo Timed Events II (2) (Sp)

This is the second course in a series of rodeo timed events classes. Students will learn about physical fitness for the time event competitor, correct application of equine bandages, development of a positive competitive attitude, communication skills as a rodeo competitor, humane treatment of timed event stock, entering rodeos, and selection of proper attire. Lab sessions will deal with practical applications of material that is presented in the lecture. A \$30 fee will be charged for this course. Verification of a NIRA card will be required. Students may enroll in only one rodeo event class or one rough stock class per semester.

1 hour lecture, 2 hours lab.

2740 Rodeo Rough Stock III (2) (Fa)

This is the third course in a series of rodeo rough stock events classes. Students will learn about selection of bucking horses and bulls, nutrition, immunization and parasite control for rough stock, safety in loading and hauling broncs and bulls, health certificate and brand inspection regulations pertinent to bucking stock, and financial transactions involved with rodeo. Lab sessions will deal with practical application of material that is presented in the lecture. A \$30 fee will be charged for this course. Verification of a NIRA card will be required. A student may enroll in only one rodeo event class or one rough stock class per semester.

1 hour lecture, 2 hours lab.

2750 Rodeo Rough Stock IV (2) (Sp)

This is the fourth course in a series of rodeo rough stock events classes. Students will learn techniques for judging each of the different rough stock events as well as public relations involving the rodeo competitor. Lab sessions will deal with practical application of material that is presented in the lecture. A \$30 fee will be charged for this course. Verification of a NIRA card will be required. A student may enroll in only one rodeo event class or one rough stock class per semester.

1 hour lecture, 2 hours lab.

2760 Rodeo Timed Events III (2) (Fa)

This is the third course in a series of rodeo timed events classes. Students will learn about selection of stock, nutrition, immunization and parasite control for the performance horse and the cattle, hauling horses, and financial transactions involved with rodeo. Lab sessions will deal with practical applications of material that is presented in the

lecture. A \$30 fee will be charged for this course. Verification of a NIRA card will be required.

Students may enroll in only one rodeo event class or one rough stock class per semester.

1 hour lecture, 2 hours lab.

2770 Rodeo Timed Events IV (2) (Sp)

This is the fourth course in a series of rodeo timed events classes. Students will learn techniques for judging each of the different timed events as well as public relations involving the rodeo competitor. Lab sessions will deal with practical applications of material that is presented in the lecture. A \$30 fee will be charged for this course. Verification of a NIRA card will be required. Students may enroll in only one rodeo event class or one rough stock class per semester.

1 hour lecture, 2 hours lab.

Family and Consumer Science (FCSC)

1141 Principles of Nutrition (3) (O)

A study of the science of food as it relates to the attainment and the maintenance of health and/or contributes to specific pathologies. Course emphasis will include: principles of nutrition; scientific basis of nutrition; nutrients, their functions, requirements, and interactions; nutritional fads and fallacies; energy consumption; energy expenditure; and metabolism. Special topics will include national and world nutrition and laboratory situations.

3 hours lecture.

2121 Child Development (4) (Fa)

A course in the study of the various societal and cultural influences on the growth and development of children during the early childhood period. Emphasis will be placed on the period from conception to age eleven. Students will observe infants, toddlers, preschoolers and primary grade children for a total of 30 hours during the semester in order to relate theory to the actual behavior of children.

Prerequisite: Concurrent enrollment in EDUC 2005 or documented DFS Pre-screen or criminal background check within previous 24 months.

2 lab hours, 3 lecture hours.

2131 Family Relationships (3) (Fa)

This course will help the student develop understanding about patterns of interactions at different stages of the family life cycle and transactions between families and other social system.

3 hours lecture.

Courses of Instruction

French-Language (FREN)

1010 1st Year French I (4) (O)

Fundamentals of grammar, composition, reading, and conversation.

4 hours lecture-recitation, 1 hour lab.

1020 1st Year French II (4) (O)

Continuation of French 1010.

Prerequisite: FREN 1010 with a grade of "C" or better.

4 hours lecture-recitation, 1 hour lab.

2030 2nd Year French I (4) (O)

Progressive reading of French prose, with additional review in verbs, idioms, and conversation.

Prerequisites: FREN 1010 and FREN 1020 with a grade of "C" or better.

4 hours lecture-recitation, 1 hour lab.

Geography and Recreation (G&R)

1000 Introduction to Geography (3) (Fa)

A one-semester survey of geography which introduces the earth's regions through a conceptual approach.

3 hours lecture.

1020 Human Geography (3) (Fa)

Analysis of spatial patterns of and interaction between the world's great cultural systems.

Topics include settlement patterns, behavior patterns, agricultural land use and resource utilization.

3 hours lecture.

1030 Introduction to World Regional Geography (3) (Sp)

Covers the distributions, traits, and processes of the Earth's peoples and landscapes through the perspective of regional geography, which is the study of the spatial relationships of natural environments and human societies.

3 hours lecture.

Geology (GEOL)

1100 Physical Geology (4) (Sp)

The study of the earth's physical make-up including rocks and minerals, streams, glaciers, geologic structures, earthquakes and plate tectonics. Laboratory sessions will cover rocks, minerals and topographic maps.

3 hours lecture, 2 hours lab.

1200 Historical Geology (4) (Fa)

Historical geology is a one-semester introductory study of the earth's formation, composition and changes, and the corresponding evolution of life through time.

3 hours lecture, 2 hours lab.

German-Language (GERM)

1010 1st year German I (4) (Fa)

Explores fundamentals of grammar, composition, conversation, and reading.

4 hours lecture, 1 hour lab.

1020 1st year German II (4) (Sp)

This course examines fundamentals of grammar, composition, conversation, and reading.

Prerequisite: GERM 1010 with a grade of "C" or better.

4 hours lecture, 1 hour lab.

Health Education-Physical & Health Education (HLED)

1006 Personal Health (3) (Fa)

A study of health problems as they relate to the development of personal health values leading to an understanding of the responsibility of oneself, the family, community, and the world.

3 hours lecture.

1221 Standard First Aid & Safety (2) (Sp)

A study of accident prevention, assessment procedures and immediate first aid care for victims of accidents or sudden illness. The student has the option of receiving certification by the American Red Cross for Adult, Child, Infant CPR (\$5.00) and First Aid (\$5.00).

2 hours lab.

Courses of Instruction

1280 Drug Use and Abuse (2) (0)

A general study of licit and illicit drugs and their metabolic and central nervous system alterations with special emphasis on the consequent impact on an individual, family, subculture, and world society, both in the past and the present.

2 hours lab.

Health Technology (HLTK)

1220 Growth & Development (3) (Sp)

This course introduces the theories, processes and enhancement of the development of infants, young children, adolescents, and adults. Through research, discussion, and field observation/participation, the student will study life span growth and development.

3 hours lecture.

1510 Nurse Assistant (4) (0)

This course is designed to provide concepts and skills of caring for residents of long-term care facilities under the supervision of licensed nursing personnel. The successful student will be eligible for certification and to function in the field of long term care. It also prepares the student to take the competency exam to become certified in the State of Wyoming. The CNA certificate may be transferred out of state. This course is offered for S/U grade only.

3 hours lecture, 2 hours lab.

1515 Home Health Assistant Re-Certification (1) (0)

This course is designed to provide 16 recertification hours for certified nursing assistants employed in home health, public health, or community settings. It will apply the principles learned in the basic nursing assistant program to the specific needs of clients in the home setting.

Prerequisite: Current unencumbered Wyoming Nursing Assistant Certificate.

This course is offered for S/U grade only.

1560 Introduction to Health Careers (1) (Fa, Sp)

This course is designed to introduce the student to the U.S. Health Care Delivery System as well as the health related professions involved in patient care. In addition, other health related professions will be explored. Through classroom content and field observations, the student will investigate the various health/health-related careers.

1 lecture hour.

1650 Advanced First Aid and Basic Emergency Care (3) (Sp)

Provide training in fundamentals of emergency care. Follows State of Wyoming Guidelines to provide students with core knowledge, skills and attitudes to function in the capacity of a first responder.

2 hours lecture, 4 hours lab.

1690 Emergency Medical Technology (4) (0)

This course is a basic EMT class. The structure is dealing with emergency care. This course is offered for S/U grade only.

Prerequisite: High school diploma or GED.

2 hours lecture, 4 hours lab + clinical experience.

1695 Emergency Medical Technology II (3) (0)

This course is a basic EMT class. The topics include advanced patient assessment, respiratory system, general pharmacology, and medical emergencies and medications.

Prerequisite: HLTK 1690, EMT I with a grade of "C" or better.

2005 Pre-Screen for Health Tech (0) (0)

This course completes the process necessary for the background check required prior to participating in HLTK 1510.

Courses of Instruction

History (HIST)

1110 Western Civilization I (3) (Fa-O)

An introductory course in the study of Western civilization with attention given to the political, social, and economic developments from the beginning of civilization to 1650.

3 hours lecture.

1120 Western Civilization II (3) (Sp-E)

A continuation of History 1110. From 1650 to the present.

3 hours lecture.

1210 United States History I (3) (Fa)

A general course which reviews the history of the United States from the colonial period to 1865. Emphasis is placed on the important events and personalities that shaped our nation's heritage.

3 hours lecture.

1211 U.S. to 1865 (3) (Fa)

A general survey course which reviews the United States' history from the colonial period to 1865. Emphasis is placed on the important events and personalities that shaped our nation's heritage. This course meets the requirements of the Wyoming statutes providing instruction in the provisions and principles of the United States and Wyoming constitutions.

3 hours lecture

1220 United States History II (3) (Sp)

A continuation of History 1210. 1865 to the present.

3 hours lecture.

1221 U.S. from 1865 (3) (Sp)

A general survey course which reviews the United States' history from 1865 to the present. Emphasis is placed on the important events and personalities that shaped our nation's heritage. This course meets the requirements of the Wyoming statutes providing instruction in the provisions and principles of the United States and Wyoming constitutions.

3 hours lecture.

1250 History of Wyoming (3) (Sp)

A study of Wyoming history from the late 18th century to the present.

3 hours lecture.

1290 History of US West (3) (Fa)

An introductory course designed to acquaint students with the history of the Trans-Mississippi West. Emphasis is placed on the 19th century.

3 hours lecture.

2020 American Military History (3) (O)

This course surveys U.S. military experiences from the colonial period to the present. In addition to specific wars, it examines military doctrines and political, social and economic forces that shaped conduct of war in American history.

3 hours lecture.

2045 Introduction to Asian Civilization (3) (O)

A survey course which emphasizes the cultural, economic, political, and social development of East Asia or monsoon Asia with special attention paid to India, China, Japan and Korea since the arrival of Europeans in East Asia. The impact of Western technology upon political ideas, cultural-religious values, and economics will be stressed.

3 hours lecture.

2290 North American Indians (3) (O)

This course studies American Indian history through 500 years and across the continent. Considers Indian political, social and economic continuity and change. Focuses on how Indian peoples experienced and responded to times of dramatic change.

3 hours lecture.

2395 Social Science Capstone Experience (0) (O)

The Social Science Capstone Experience is directed toward the application of broad principles in the social sciences with specific attention given to the student's discipline of study. The course seeks to enhance and enrich the student's academic background, and involve the student in activities/experiences that demonstrate an ability to continue study in the social sciences.

Prerequisite: Sophomore standing, major in relevant social science, semester of graduation.

This course offered for S/U grade only.

Courses of Instruction

Honors Program (HP)

1000 Honors Experience: Communities (1) (Fa, Sp)

This course is specifically designed as an orientation to the college community for honors students. Students will explore and understand the college environment; gain an understanding of intellectual communities; identify and utilize campus and community resources to access knowledge; and assist the student in the development of short and long term academic and career goals.

Prerequisite: Acceptance in Honors Program.
1 hour lecture.

1151 Freshman Honors Colloquium I (3) (Fa)

Studies significant works in the history of Western civilization to the Renaissance, both in their historical context and in relation to one another. Required for all incoming honors freshman.

Fulfills English Composition degree requirement.
Prerequisite: Appropriate placement scores and Honors Program status.
3 hours lecture.

1161 Freshman Honors Colloquium II (3) (SP)

Studies significant works in history of Western civilization from the Renaissance to present, both in their historical context and in relation to one another. Required for all incoming honors freshman. Fulfills Intensive Writing degree requirement.

Prerequisite: Appropriate placement scores and Honors Program status.
3 hours lecture.

Human Development (HMDV)

0510 Fundamentals of Reading I (3) (Fa, Sp, Su)

This course is designed to develop basic reading and vocabulary skills. Students will spend 2 hours per week in the classroom and 2 hours per week in a reading lab, which will include individual work with the instructor, computer-aided learning, and independent work.

Prerequisite: Appropriate score on the placement examination.
2 hours lecture, 2 hours lab.

0520 Fundamentals of Reading II (3) (Fa, Sp, Su)

This course is designed to develop reading comprehension and reading vocabulary, as well as general reading strategies. Students will spend 2 hours per week in the classroom and 2 hours per week in a reading lab, which will include

individual work with a tutor or instructor, computer-aided learning, and individual work. Special emphasis will be placed on reading content-related materials and developing a working vocabulary in the student's program area.

Prerequisite: Appropriate score on the placement examination.
2 hours lecture, 2 hours lab.

0810 Spelling Improvement (1-2, Maximum 2) (Fa, Sp)

Students learn to improve their spelling skills using a phonetics and rules approach. This is a self-paced program using a variety of methods, including computer-assisted instruction. This independent study lab course may be added until midterm. A student must schedule a minimum of 2 hours per week per credit hour for a class scheduled within the parameters of the regular semester; otherwise, the hours per week will be dependent on the student's date of entry to the class.

2 lab hours per credit hour (total of 30 lab hours per credit hour).

1000 College Studies (1) (Fa, Sp)

This course is designed as a general orientation and a transition to college for all new students and all transfer students who have less than thirty semester hours. This course will enable the student to explore and understand the whole college environment, to identify and utilize campus resources (programs and other courses) that will enhance his/her academic experience. The course will assist the student to begin to develop short and long term academic and career goals. The course will assist the student to identify community resources which will also enhance his/her academic experience.

1 hour lecture.

1025 Orientation to Distance Learning (1) (O)

This course provides an overview of the elements required for successful distance learning. Technological skills and learning strategies necessary for effective interaction with distance courses will be the focus of this interactive orientation. This course is highly recommended for anyone who enrolls in a distance education course. Distance learners may substitute for HMDV 1000 for EWC degree requirements. This course is offered for S/U or letter grade.
1 hour lecture.

Courses of Instruction

1050 Study Skills (2) (O)

This course is designed to teach skills and attitudes which enable students to achieve their academic goals. Areas addressed will include utilizing SQ3R, note-taking, reviewing, preparing for and taking tests, listening effectively, improving memorization skills, organizational and other related skills.

Prerequisite: HMDV 1000 with a grade of "C" or better.

2 hours lecture.

1500 Human Development: Empowerment (3) (Fa, Sp)

This course defines the personal qualities and characteristics that contribute to student success as it teaches the attitudes and study skills that contribute to academic achievement. Students become more aware, discover self-motivation, accept personal responsibility, and master self-management techniques through in-class exercises, take-home assignments, and journal writing. The course provides instruction in listening, reading, writing, note-taking, and test-taking skills so that students acquire the disciplines that distinguish life-long learners. This course may be substituted for both HMDV 1000 and HMDV 1050 for EWC degree and elective requirements.

3 hours lecture.

1510 Success in the Workplace (1) (Sp)

A class designed to emphasize those concepts, skills, and attitudes needed by an individual to have a successful work-related experience. Topics include: resumes, workplace ethics, customer relations, and other employment skills.

1 hour lecture.

1550 Lifestyle Management (2) (Fa, Sp)

This class covers basic lifestyle topics to help students become more successful in life and in school. It includes topics in nutrition, exercise, goal setting, resume building, interviewing skills, mental and emotional health topics and working with community resources.

2 hours lecture.

2000 Sophomore Project (3) (O)

This course is designed to be an interdisciplinary approach to library research and the I-Search paper, providing students with a variety of research skills and methods. It will stress the MLA documentation style. Emphasis will be placed on critical thinking and analysis.

Passing the course with a grade of "C" or better satisfies the Outcomes Assessment activity for Interdisciplinary Studies majors.

Prerequisite: English 1010 with a grade of "C" or better.

3 lecture hours.

Information Management (IMGT)

2400 Introduction to Information Management (3) (Sp)

Concerned with 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.

Prerequisite: Sophomore standing.

3 hours lecture.

Instructional Technology-Education (ITEC)

2360 Teaching With Microcomputers (1 or 3) (Fa,Sp)

This course provides an introduction to effective utilization and integration of information technology with classroom instruction. Topics will include: hardware, software, integrated applications, grade books, Internet, world wide web, e-mail, educational media and evaluation, and educational issues regarding information technology.

Prerequisite: CMAP 1715, CMAP 1710 with a grade of "C" or better, or high school word processing/keyboard courses.

Contact hours vary depending on credit hours.

Internet (INET)

1510 Website Analysis (1) (Fa)

This course introduces methods of assessing website design and content. In this course, students use analytical skills to critically appraise websites. They also gain knowledge of the current trends in website design.

1 hour lecture.

1550 Introduction to the Internet. (1) (O)

This course provides an understanding of the development and function of the Internet, and introduces students to the basic tools for using the Internet for communication and research and as a resource for electronic media. The course will include hands-on interaction with Internet tools.

1/2 hour lecture, 1 hour lab.

Courses of Instruction

1580 Web Page Authoring (2) (Fa, Su)

This course is intended for the beginning Web page designer. It will familiarize students with HTML (Hypertext Markup Language), XHTML (Extensible Hypertext Markup Language) and CSS (Cascading Style Sheets). Using these tools, students will learn to design their own simple web pages for personal or business use.
1 hour lecture, 2 hours lab.

1590 Web Page Design (3) (Sp)

This is an introductory course on web page design using design techniques in Dreamweaver. Upon completion of this course, participants will have the necessary skills to design and publish basic custom web sites for viewing on the World Wide Web. Dreamweaver is a web design program used to create multimedia-rich web pages through interactive web pages containing text, images, animation, sounds, and video.
2 hours lecture, 2 hours lab.

1610 Dynamic Web Graphics: Flash Web Design (3) (Sp)

Dynamic Web graphics allows the Web designer to create animations and Web interfaces. Web pages are used by most businesses today, and skills acquired in this course will help the designer enhance the published Web page.
2 hours lecture, 1 hours lab, 1 hour Web enhanced.

1700 Web Site Usability and Management (3)

This course introduces the student to the concepts of Web Site Usability and Project Management. Upon completion of this course, students will have acquired the skills necessary to develop a web site that is efficient and user friendly.
Prerequisite: INET 1580 with a grade of "C" or better.
3 hours lecture.

2010 Database Driven Web Sites (3) (Sp)

Students will acquire the skills necessary to build and maintain dynamic Web pages. Topics include data resources, record sets, dynamic content, and database use.
Prerequisite: COSC 1200 and CMAP 1800 with a grade of "C" or better.
2 hours lecture, 2 hours lab.

2620 Designing Effective Web Sites (4) (Sp)

This advanced level course builds upon the skills learned in the Web Design program. Participants

will be given the opportunity to collaborate with an existing business or organization to develop a comprehensive public web site. Successful completion of this course will culminate in a working web site that will be viewed by the public on the World Wide Web.
Prerequisite: INET 1580 with a grade of "C" or better.
3 hours lecture, 2 hours lab.

Journalism (JOUR)

1010 Publications Production I (1, Maximum 4) (O)

Practical experience dealing with campus or campus-related affairs and events. Students may work in writing, editing, advertising, photographic, and/or production areas. Sustained professional-level performance is required.
2 hours lab.

Library Science-Education (LIBS)

2280 Literature for Children (3) (Fa)

Wide reading and discussion of the literature for children is emphasized in this course. 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. In addition to becoming acquainted with a wide sampling of children's literature, students also establish criteria for evaluation.
Prerequisite: ENGL 1010 with a grade of "C" or better.
3 hours lecture.

Machine Tool Technology (MCHT)

1500 General Machine Shop (2) (Fa, Sp)

This is a course in the theory and practice of hand tools and shop equipment. Emphasis is given to good working habits and attitudes toward benchwork layout, drilling, tapping, filing, grinding, metal cutting, drill sharpening, and letter stamping. The course will teach students how to get the job done safely, accurately, and quickly.
1 hour lecture, 2 hours lab.

1610 Machine Tool Technology I (2) (Fa, Sp)

A course providing instruction in turning fundamentals including safety, tooling, feeds, speeds, threading, boring, work holding, and machine maintenance on belt drive and geared head manual lathes. The student will also learn

Courses of Instruction

how to calibrate and read a micrometer and a dial caliper.

1 hour lecture, 2 hours lab.

1620 Machine Tool Technology II (3) (O)

This course provides the student with the technical understanding and skill required to do more advanced turning, threading, and boring on the lathe. This is followed by learning to set up and use the vertical mill to cut key seats.

Prerequisite: MCHT 1610 with a grade of "C" or better.

1 hour lecture, 4 hours lab.

Management-Business (MGT)

1000 Introduction to Supervision (3) (Fa-O)

This course seeks to develop an understanding and appreciation of the basic concepts of supervision, to include planning, organizing, human resources management, directing, and controlling. Topics covered also include motivation, delegation, leadership, communications, team-building, total quality management, and discipline. The course should assist one to acquire the skills necessary for effective first-level management.

3 hours lecture.

Marketing (MKT)

1000 Sales (3) (O)

Students will acquire skills and knowledge necessary to achieve success in the sales profession. Students will develop knowledge and an understanding of how to prepare for a selling career, how to better understand their customers, selling techniques and procedures, and how to increase their sales effectiveness.

3 hours lecture.

2100 Principles of Marketing (3) (O)

An overview of marketing including the strategies for product, distribution, promotion, and pricing decisions; the relationship of these decisions to the external environment; global perspectives for tactical and strategic planning related to marketing; and ethics in marketing considerations.

Prerequisite: Sophomore standing.

3 hours lecture.

Mathematics (MATH)

0860 Fundamentals of Arithmetic (4) (Fa)

This course is designed for those who are weak in basic arithmetic skills and those who would benefit from a very structured course with time in class to practice those skills. It will cover whole numbers, primes, fractions, decimals, ratio and proportion, and percents, as well as the use of formulas. At the end of the course, students will retake the placement exam to determine proper placement into subsequent mathematics courses. People whose placement test score is 22 or below must take this course instead of DVST 0900.

3 hours lecture, 2 hours lab.

0900 Pre-algebra Arithmetic (3) (Fa, Sp)

This course is designed for those who are weak in basic skills, those who require a review of the fundamentals, and those who desire a chance to develop their self-confidence in mathematics.

This course is a comprehensive study of arithmetic including such topics as operations on whole numbers, primes, fractions, decimals, ratio and proportion, and percents, as well as the use of formulas and introductory algebra skills including the use of a scientific calculator.

3 hours lecture.

0906 Math Lab I (1) (Fa, Sp)

If the student is having difficulty in Developmental Studies 0900, or if the student wishes to have lab work time on a regular basis with tutorial assistance, he/she may take the math lab. The lab would be on a to be arranged basis. The student will be able to register for the lab any time before midterm. This course is offered for S/U grade only.

Prerequisite: Concurrent enrollment in DVST 0900.

3 hours lab.

0915 Math 0920 Lab (1) (Fa, Sp)

If a student is having difficulty in Mathematics 0920, or if the student wishes to have lab work time on a regular basis with tutorial assistance, he/she may take the math lab. The lab will be on a to be arranged basis. The student will be able to register for the lab any time before midterm. This course is offered for S/U grade only.

Prerequisite: Concurrent enrollment in MATH 0920.

3 hours lab.

Courses of Instruction

0920 Elementary Algebra (4) (Fa, Sp)

This is a one-semester beginning course in algebra. Basic concepts of algebra will be studied, including real numbers, linear, quadratic, and rational equations, with emphasis placed on solving “word” or “story” problems.

Prerequisite: A grade of “C” or better in BADM 1005, MATH 0900, or appropriate score on mathematics placement exam within one year prior to registering for the course.

4 hours lecture.

0930 Intermediate Algebra (4) (Fa, Sp)

Basic techniques and skills of algebra with applications. Topics include solving linear equations and inequalities, quadratic equations, rational expressions, factoring, exponents, graphing of linear equations and conic sections, and an introduction to functions and logarithms.

Prerequisite: MATH 0920 with a grade of “C” or better, or appropriate score on mathematics placement exam within one year prior to registering for the course.

4 hours lecture.

1000 Problem Solving (3) (Fa, Sp)

This course is specifically designed to satisfy basic mathematics requirements at many colleges for students not planning to enroll in Mathematics 1400 or a calculus course. The course treats modern topics chosen for their applicability and accessibility; it provides students with the mathematical and logical skills needed to formulate, analyze, and interpret quantitative arguments in a variety of settings. Statistics is introduced and the use of a calculator is stressed in the course.

Prerequisite: MATH 0920 with a grade of “C” or better, or appropriate score on mathematics placement exam within one year prior to registering for the course.

3 hours lecture.

1100 Numbers & Operations for Elementary School Teachers (3) (Sp)

This course is for prospective elementary school teachers. The purpose of this course is to prepare students to be competent in teaching the major concepts and practical skills related to the real number system with the four arithmetic operations. Students enrolling in this course must also enroll concurrently in EDEL 1410, Elementary School Math Seminar I.

Prerequisite: MATH 0920 with a grade of “C” or better, or level 2 on the Math Placement Exam.

3 hours lecture.

1105 Data Probability, and Algebra for Elementary School Teachers (3) (Fa)

This course is a continuation of Mathematics 1100. The purpose of this course is to prepare students to be competent in teaching the major concepts and practical skills related data analysis, probability, & algebra.

Prerequisite: MATH 0920 with a grade of “C” or better or Level 2 on the Math Placement Exam.

3 hours lecture.

1400 Pre-Calculus Algebra (4) (Fa, Sp)

Algebraic equations and inequalities are studied as well as the following functions: polynomial, rational, exponential, and logarithmic. Emphasis is placed on graphing relations and functions.

Prerequisite: MATH 0930 with a grade of “C” or better, or appropriate score on mathematics placement exam within one year prior to registering for the course.

4 hours lecture.

1405 Pre-Calculus Trigonometry (3) (Fa, Sp)

Topics include circular and trigonometric functions and their inverses, identities and equations, complex numbers, and vectors, and applications of these.

Prerequisite: MATH 1400 with a grade of “C” or better, or concurrent enrollment in MATH 1400.

3 hours lecture.

1450 Algebra and Trigonometry (5) (Fa)

This course will cover the topics of Math 1400 and Math 1405 in a single course. Students who have received credit in either of the above courses may not receive credit for Math 1450. Topics to be covered include algebraic equations and inequalities; algebraic functions (polynomial, rational, exponential and logarithmic) with an emphasis on graphing these and other relations; complex numbers; circular and trigonometric functions and their inverses; trigonometric identities and equations; and applications of all of the above.

Prerequisite: MATH 0930 with a grade of “C” or better, or appropriate score on mathematics placement exam within one year prior to registering for the course.

5 hours lecture.

1515 Applied Technical Mathematics (3) (Fa, Sp)

A mathematics course for students in the technical fields with applications which stress problem solving techniques, measurement systems (both English and Metric), ratio and

Courses of Instruction

proportions, percentages, scale drawings, basic geometry and the use of geometric formulas, the interpreting of graphs and tables, and basic trig functions. This course may not be used to meet the math requirements for AA or AS programs. Prerequisite: MATH 0900 with a grade of “C” or better, or an appropriate score on the placement exam within one year prior to registering for the course.

3 hours lecture.

2120 Geometry & Measurement for Elementary School Teachers (3) (Sp)

This course is a continuation of MATH 1105. The purpose of this course is to prepare students to be competent in teaching the major concepts and practical skills related to geometry and measurement. Students enrolling in this course must also enroll concurrently in EDEL 1420: Elementary School Math Seminar II.

Prerequisite: MATH 1105 with a grade of “C” or better.

3 hours lecture.

2200 Calculus I (5) (Fa)

This course is designed for students in engineering, physics, chemistry, statistics, agriculture, mathematics, and others whose majors require a calculus sequence with emphasis on physical science applications. Mathematical topics included are: plane analytic geometry, differentiation, applications of the derivative, integration, and applications of integration. Students who have earned credit in Mathematics 2350 cannot earn additional credit in Mathematics 2200.

Prerequisites: MATH 1400 and MATH 1405 with grades of “C” or better, or appropriate score on mathematics placement exam within one year prior to registering for the course.

5 hours lecture.

2205 Calculus II (5) (Sp)

This is a continuation of Mathematics 2200. Topics covered are trigonometric, logarithmic, and exponential functions, techniques of integration, indeterminate forms, and polar coordinates.

Prerequisite: MATH 2200 with a grade of “C” or better.

5 hours lecture.

2210 Calculus III (5) (O)

A continuation of Mathematics 2205 including infinite series, partial differentiation, and multiple

integrals. Strong emphasis on vectors in analytic geometry and calculus, with physical applications. Prerequisite: MATH 2205 with a grade of “C” or better.

5 hours lecture.

2250 Elementary Linear Algebra (3) (O)

Topics include linear equations and matrices, vector spaces, linear transformations, determinants, orthogonality, and eigenvalues and eigenvectors.

Prerequisite: MATH 2205 with a grade of “C” or better.

3 hours lecture.

2350 Business Calculus (4) (Fa)

Review of functions, their graphs and their algebra; derivatives and their applications; techniques of differentiation; the calculus for the exponential and logarithmic functions with applications to business; integration and applications; differential equations and applications. Students who have earned credit in Mathematics 2200 cannot earn additional credit in Mathematics 2350.

Prerequisite: MATH 1400 with a grade of “C” or better, or appropriate score on mathematics placement exam within one year prior to registering for the course.

3 hours lecture, 2 hours lab.

2355 Mathematical Applications for Business (4) (Sp)

Continues business and economic applications of mathematics from Math 2350. Topics include finance, linear algebra and matrices, linear programming, least squares, probability and statistics. A mandatory computer lab using spreadsheet software will meet one day per week. Prerequisites: MATH 2200 or 2350 with a grade of “C” or better or MATH 1400 with a grade of “C” or better. Students planning to attend the University of Wyoming must not take MATH 2355 without first taking MATH 2350, as the university will not transfer MATH 2355 without MATH 2350 having been taken first.

3 hours lecture, 2 hours lab.

Courses of Instruction

Mining Technology (MINE)

1850 MSHA Surface New Miner (1.5) (O)

This course provides 24 hours of the mandatory Mine Safety and Health Administration training for surface mine workers. Onsite training must be completed at an actual mine site.

This course is offered for a grade of S/U only.

1855 MSHA Surface Annual Refresher (.5) (O)

This refresher course is offered annually to any individual who has prior certification of completion of a Surface New Miner training program. This course provides eight (8) hours of mandatory MSHA (Miner Safety and Health Administration) training for surface mine workers.

Prerequisite: Certification of completion of Surface New Miner.

This course is offered for a grade of S/U only.

1870 MSHA Underground New Miner (2) (O)

This course provides 32 of the mandatory 40 hours of Mine Safety and Health Administration for the underground mine instruction. The remaining eight (8) hours of the onsite training is the student's responsibility and must be completed at an actual mine site.

This course is offered for a grade of S/U only.

1875 MSHA Underground Annual Refresher (.5) (O)

This refresher course is offered annually to any individual who has prior certification of completion of an Underground New Miner training program. This course provides eight (8) hours of mandatory MSHA (Mine Safety and Health Administration) training for underground mine workers.

Prerequisite: Non-expired 5000-23, past proof of 5000-23, or signed agreement with employer as experienced miner.

This course is offered for a grade of S/U only.

Molecular Biology (MOLB)

2210 General Microbiology (4) (O)

General Microbiology is a lecture/laboratory course which provides instruction in the fundamentals of microbiology. It includes the study of bacteria, fungi, protozoa, and viruses. Both beneficial and harmful effects of microorganism in humans and the environment are discussed. Basic laboratory techniques for the isolation and identification of microorganisms are introduced. This course is designed for students

who are majoring in biology, allied health, and preprofessional programs.

Prerequisite: BIOL 1010 with a grade of "C" or better.

3 hours lecture, 3 hours lab.

2220 Pathogenic Microbiology (4) (Sp)

This course is a lecture and laboratory course which covers bacteria, parasites, viruses and fungi which cause human disease. Laboratory sessions emphasize the techniques used in the identification of disease-causing organisms. Students in biology, allied health, and preprofessional programs would benefit from this course.

Prerequisite: BIOL 1000 or BIOL 1010 with a grade of "C" or better, or approval of instructor.

3 hours lecture, 3 hours lab.

Music (MUSC)

1000 Introduction to Music (3) (Fa-O)

A basic appreciation course in which the student is introduced to the fundamental areas of music study and traditions.

3 hours lecture.

1010 Music Fundamentals (2) (Sp)

For the non-music major, Music Fundamentals emphasizes the basic skills of reading, writing, and playing music. By the end of the course each student will be able to play basic melodies, chords, and rhythms on such instruments as the recorder, drums, bells, and piano. Additional instruments may be added. This course does not equal MUSC 1030.

2 hours lecture.

1030 Written Theory I (3) (Fa)

The study of the fundamentals of music and of written harmony.

Prerequisite: Concurrent enrollment in MUSC 1035.

3 hours lecture.

1035 Aural Theory I (1) (Fa)

Ear training, sight singing, and keyboard harmony.

Prerequisite: Concurrent enrollment in MUSC 1030.

2 hours lab.

1040 Written Theory II (3) (Sp)

Continuation of Music 1030.

Prerequisites: MUSC 1030 with a grade of "C"

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or better and concurrent enrollment in MUSC 1045.

3 hours lecture.

1045 Aural Theory II (1) (Sp)

Continuation of Music 1035.

Prerequisite: MUSC 1035 with a grade of "C" or better and concurrent enrollment in MUSC 1040.

2 hours lab.

1071 Applied Music-Instrument I (2, Maximum 8) (O)

Individual lessons on woodwind, brass, or percussion instruments. One lesson weekly per semester. For beginners, no previous training required.

4 hours lab.

1073 Applied Music Piano (2, Maximum 4) (O)

Individual lessons in piano for beginners, no previous training required. Twelve lessons per semester. Each lesson is approximately one hour. A computer lab accompanies each lesson. Instruction will concentrate on improving piano skills in technique, basic improvisation and harmonization.

4 hours lab.

1074 Applied Music Voice (2, Maximum 4) (Fa, Sp)

Individual lessons in voice. One lesson weekly per semester. For beginners, no previous training required.

4 hours lab.

1150 Guitar I (2, Maximum 8) (Fa, Sp)

Individual lessons in guitar. One lesson weekly per semester. For beginners, no previous training required.

4 hours lab.

1280 Accompanying (1, Maximum 4) (O)

Supervised practice in the art of accompaniment with discussion of traditional usages as applicable to the various schools and periods of vocal and instrumental solo literature and group literature.

2 hours lab.

1378 College Band (1, Maximum 4) (Fa, Sp)

Band is open to all college students having previous experience with brass, woodwind, or percussion instruments. A wide variety of styles and musical abilities will be represented. 1 two-hour class period.

2 hours lab.

1400 Collegiate Chorale (1, Maximum 4) (Fa, Sp)

2 hours lab.

1404 Master Chorus (1) (Fa, Sp)

Master Chorus is open to all college students having little to no experience in voice. Although the music is challenging, emphasis is placed on learning and creating a choral repertoire for the group. Music ranges from classical to modern large choral works.

2 hours lab.

1415 Introduction to Music Technology (2) (Fa)

A beginning course in Music Technology. This course will cover setting up a music workstation, choosing software and equipment. It will also cover the basics of several popular music software programs. In addition to the weekly lecture students will be able to spend time with a computer music workstation.

1 hour lecture, 2 hours lab.

2015 Introduction to the Music of the World's Peoples (3) (Sp)

This course introduces students to the music and cultures of the world's peoples. Students will study, hear, and research music from a wide variety of geographical areas of the world.

3 hours lecture.

2030 Written Theory III (3) (Fa)

A continuation of Music 1030 and Music 1040 with added work in harmonic analysis and with some consideration of contrapuntal techniques. Prerequisites: MUSC 1040, MUSC 1045 with a grade of "C" or better, and concurrent enrollment in MUSC 2035.

3 hours lecture.

2035 Aural Theory III (1) (Fa)

A continuation of Music 1035 and Music 1045. Prerequisites: MUSC 1040, MUSC 1045 with a grade of "C" or better, and concurrent enrollment in MUSC 2030.

2 hours lab.

2040 Written Theory IV (3) (Sp)

Continuation of Music 2030. Prerequisites: MUSC 2030, MUSC 2035 with a grade of "C" or better, and concurrent enrollment in MUSC 2045.

3 hours lecture.

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2045 Aural Theory IV (1) (Sp)

A continuation of Music 2035.

Prerequisites: MUSC 2030, MUSC 2035, and concurrent enrollment in MUSC 2040.

2 hours lab.

2050 Music History Survey I (3) (Fa)

A historical survey of the history and literature of Western Music: Ancient Greece through the Baroque period (c.1750). The course examines the cultural context in which the music of a period was created, how music influenced that culture (or how culture influenced the music), and biographical studies of important musicians. May be taken out of sequence (See Music History Survey II).

3 hours lecture.

2055 Music History Survey II (3) (Sp)

Continuation of Music 2050. A historical survey of the history and literature of Western Music: The Classical period (c.1750) through the present. The course examines the cultural context in which the music of a period was created, how music influenced that culture (or how culture influenced the music), and biographical studies of important musicians.

3 hours lecture.

2071 Applied Music—Instrument (2-4, Maximum 8) (Fa, Sp)

Individual lessons in advanced woodwind, brass, or percussion instrument, with a concentration on breath control, range, resonance, the study of appropriate literature for the student's instrument and ability. For those students with previous training in woodwind, brass, or percussion. Two credits will equal one (1) one-half hour lesson per week, 4 credits equal one (1) one hour lesson per week. Students are required to practice two hours per week, per credit and complete a practice log of practice sessions.

Prerequisite: MUSC 1071 with a grade of "C" or better.

2073 Applied Music Piano (2-4, Maximum 8) (Fa, Sp)

Individual lessons in piano for intermediate to advanced students or those students with previous training in piano. Students will continue to improve piano skills in technique, sight-reading, harmonization, and improvisation. Two credits will equal one (1) one-half hour lesson per week, four credits equal one (1) one hour lesson per week. Students are required to practice 2 hours per week, per credit and complete a practice log of practice sessions.

Prerequisite: Applied Music-Piano MUSC 1073 with a grade of "C" or better.

2074 Applied Music Voice (2-4, Maximum 8) (Fa, Sp)

Individual instruction in advanced vocal technique with concentration on breath control, range, resonance, placement of the voice, diction, and the study of appropriate literature for each student's voice and ability. For those students with previous training in voice. Two credits will equal one (1) one-half hour lesson per week, four credits equal one (1) one hour lesson per week. Students are required to practice 2 hours per week, per credit and complete a practice log of practice sessions.

Prerequisite: Applied Music-Voice MUSC 1074 with a grade of "C" or better.

2150 Guitar II (2, Maximum 8) (Fa, Sp)

Individual lessons in guitar.

Prerequisite: MUSC 1150 with a grade of "C" or better.

4 hours lab.

2455 Convocation (0) (Fa, Sp)

Monthly recital hour for student, faculty and guest performances. Required for all music majors and those non-music majors in second year Applied Music courses. This course is offered for S/U grade only. Meets monthly.

Prerequisite: Concurrent enrollment in an Applied Music course.

Nursing Studies (NRST)

1640 Basic Intravenous Therapy Course (2) (0)

This Basic Intravenous Therapy for Licensed Practical Nurses Course is directed toward establishing acceptable standards so the student is able to delineate the beginning skills and knowledge needed to administer and manage IV therapy. Basic Guidelines include: background information, legal aspects of IV systems, fluid and electrolyte balance, procedures for venipunctures, prevention and assessment of complications, principles of pharmacology as related to IV therapy, and demonstration and practice of required skills.

Prerequisite: Enrollment in HLTK 2005 or documented DFS pre-screen or criminal background check within previous 24 months.

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1645 Advanced Intravenous Therapy Course (2) (O)

This Advanced Intravenous Therapy for Licensed Practical Nurses Course is directed toward establishing acceptable standards so the student will be able to safely and competently follow functions and duties, in addition to those identified above, including discontinuing peripheral intravenous therapy for pediatric patients ages 5-12, obtain a blood specimen, medication administration, and management of central lines under the direct supervision of a registered professional nurse, physician, or dentist. This course is offered for S/U grade only. Prerequisite: Current LPN License and successful completion of NRST 1640 with a grade of "C" or better.

Philosophy (PHIL)

1000 Introduction to Philosophy (3) (Fa)

This course will introduce the student to the meaning and method of philosophy. Critical examination of life occurs through contact with some of the major philosophers in Western culture. Drawing upon key sources in Western thought, the student will be challenged to begin his/her own critical look at life.

Prerequisite: ENGL 1010 with a grade of "C" or better.

3 hours lecture.

2300 Ethics in Practice (3) (Sp)

An examination of contemporary ethical conflicts to provide students with a grounding in the language, concepts and traditions of ethics and with the tools necessary to analyze moral dilemmas in a variety of areas.

Prerequisite: English 1010 with a grade of "C" or better.

3 hours lecture.

2345 Natural Resources Ethics (3) (Sp)

Introduces students to ethics in the context of natural resources use, conservation, and preservation. Ethical frameworks include teleological and deontological theories primarily applied to human needs and desires. Concepts and applications of environmental justice are addressed including private property, sustainability, and obligations to future generations. Students cannot earn credit for both PHIL 2345 and RNEW 2345.

Prerequisite: BIOL 1000, BIOL 1010, or PHIL 1000 with a grade of "C" or better.

3 hours lecture.

PE Activity-Physical & Health Education (PEAC)

All students, except those medically exempted, desiring to receive an Associate of Arts Degree or an Associate of Science Degree from Eastern Wyoming College are required to take two different physical education activity courses which must be taken in separate semesters. Students must select a minimum of one physical education activity course from Area II. Medical exemptions will be allowed only on the receipt of a signed form from the certifying doctor. Note: For those students transferring to the University of Wyoming or Chadron State College, general education credit may not be given for more than one physical education activity class per semester.

Area I-Fitness

1032 Aerobic Conditioning I/Fitness Center (1) (Fa, Sp, Su)

This course is designed for individuals interested in improving total fitness through an aerobic based conditioning program. The course will include screening, individual fitness assessments, and individualized exercise prescriptions based upon the student's goals. Weight training equipment, bicycle ergometers, treadmills, a rowing machine, a Nordic Track, and other aerobic equipment will be used to improve cardiorespiratory fitness. Concurrent enrollment in Physical Education 2000 is highly recommended, but not required.

Concurrent enrollment in PEAC 1020, 1033, 1034, 1035, 1036, 1271, 1273, 1291 is not allowed.

Minimum of 2 lab hours per week.

1033 Aerobic Conditioning II/Fitness Center (1) (Fa, Sp, Su)

A continuation of Physical Education 1032, this course allows students the opportunity to attain a high level of total fitness. The course will include individual fitness evaluation, computerized analysis of test results, a prescribed exercise program, and an opportunity to attend fitness related seminars. Weight machines, bicycle ergometers, treadmills, a Nordic Track, a rowing machine, a stairmaster, and other aerobic activities will be used to elicit improvements in total fitness. Students will be re-evaluated upon completion of 25 workouts in the Fitness Center. Prerequisite: PEAC 1032 with a grade of "C" or better. Concurrent enrollment in PEAC 1020, 1032, 1034, 1035, 1036, 1271, 1273, 1291 is not

allowed.

Minimum of 2 lab hours per week.

1034 Aerobic Conditioning III/Fitness Center (1) (Fa, Sp, Su)

An advanced course in aerobic conditioning designed for individuals interested in attaining a higher level of total body fitness. The course will include individual fitness assessments, computerized analysis of test results, a prescribed exercise program, and the opportunity to participate in a series of fitness related seminars. Bicycle ergometers, mini-tramps, aerobicycles, treadmills, a computerized rowing machine, and other aerobic conditioning activities will be coupled with weight machines to give each student a maximal workout.

Prerequisite: PEAC 1033 with a grade of "C" or better. Concurrent enrollment in PEAC 1020, 1032, 1033, 1035, 1036, 1271, 1273, 1291 is not allowed.

Minimum of 2 lab hours per week.

1035 Aerobic Conditioning IV/Fitness Center (1) (Fa, Sp, Su)

An advanced course in aerobic conditioning designed for those persons currently having a "moderate level" of total body fitness and who desire to attain a higher level of fitness. The course will include fitness testing, computerized analysis of results, a prescribed exercise program, and the opportunity to attend various fitness related seminars. The primary mode of training will be the "Aerobic Super Circuit" supplemented with aerobic work on the treadmill, stairmaster, rowing machine, and individualized weight workouts on the "body parts" equipment.

Prerequisite: PEAC 1034 with a grade of "C" or better. Concurrent enrollment in PEAC 1020, 1032, 1033, 1034, 1036, 1271, 1273, 1291 is not allowed.

Minimum of 2 lab hours per week.

2000 Wellness: Physical Education Concepts/ Fitness Course (1) (Fa, Sp)

A course designed to illustrate the relationship between lifestyle (nutrition, exercise, fitness, etc.) and personal wellness. Emphasis is placed on the role of exercise in wellness. Course will include lecture and laboratory experiences.

Concurrent enrollment in 1020, 1032, 1033, 1034, 1035, 1036, 1271, 1273, 1291 is not allowed.

1 hour lecture, 1 hour lab.

Area II-General Physical Activity

1008 Lifetime Sports (1) (Fa, Sp)

Students receive a brief introduction to individual and dual sports. Approximately two weeks (4 class periods) will be spent on each of the following: archery, badminton, bowling, golf, horseshoes, racquetball, table tennis, and tennis. 2 hours lab.

1012 Beginning Swimming (1) (Fa)

A course designed for the beginning swimmer. Skills will be taught and measured according to the American Red Cross level for the beginning swimmer.

2 hours lab.

1020 Fitness and Conditioning (1) (Sp)

Students will evaluate their physical condition relative to cardiovascular endurance, strength, and flexibility. An individualized training program will be developed to improve and/or maintain these aspects of fitness based upon the student's desire.

Concurrent enrollment in PEAC 1032, 1033, 1034, 1035, 1036, 1271, 1273, 1291 is not allowed.

2 hours lab.

1050 Beginning Tennis (1) (Fa)

A course designed to acquaint the student with the equipment, rules, etiquette, scoring, and skills of tennis. Instruction will cover grips, ground strokes, service, volley, and overhead strokes. Singles and doubles strategies will be discussed. 2 hours lab.

1252 Beginning Badminton (1) (Fa)

A course designed to teach the student the following badminton skills: grips, footwork, serve, forehand strokes, backhand strokes, and overhead strokes. Singles and doubles strategies will also be discussed.

2 hours lab.

1253 Beginning Bowling (1) (Fa)

A course designed to acquaint the student with equipment selection, rules and courtesies of bowling as well as the skills and scoring of bowling. Instruction will cover approach, timing, release (delivery), and aiming.

2 hours lab.

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1255 Beginning Golf (1) (Sp)

A course designed to acquaint the student with the selection and care of equipment, rules and etiquette of the game, and game skills. Instruction will cover swing, grip, putting, chipping, and driving.
2 hours lab.

1257 Beginning Racquetball (1) (Fa, Sp, Su)

A course designed to acquaint the student with rules, etiquette, safety measures, and skills of racquetball. Instruction will cover grip, forehand stroke, backhand stroke, overhand stroke, underhand stroke, and various serves. Singles and doubles strategies will be discussed.
2 hours lab.

1271 Weight Loss Conditioning (1) (Fa, Sp)

Exercise and dietary modifications will be combined in the weight loss course. One classroom session will be held per week and will include information on nutrition, diet analysis, and eating behavior modification, as they relate to weight control and weight loss. Individual weight loss goals will be established for each student. In addition, an individualized exercise program utilizing the Eastern Wyoming Fitness Center will be developed for each student. Students are expected to follow the exercise program in the Fitness Center by working out a minimum of 2 days per week and/or a maximum of 6 days per week.

Concurrent enrollment in PEAC 1020, 1032, 1033, 1034, 1035, 1036, 1273, 1291 is not allowed.

1 hour lecture, 2 hours lab.

1273 Heavy Resistance Conditioning (1, Maximum 2) (Fa, Sp)

A basic strength training program designed for students interested in developing muscular strength and size. An individualized weight program will be developed for each student in accordance with his/her goal. Students will meet in the Fitness Center, and under the supervision and direction of an instructor, proceed through their individualized programs.
2 lab hours per week.

Concurrent enrollment in PEAC 1020, 1032, 1033, 1034, 1035, 1036, 1271, 1273, 1291 is not allowed.

1281 Beginning Casting and Angling (1) (Sp)

A course designed to develop basic casting techniques for spin, bait, and fly fishing.

Selection, care and repair of equipment will be discussed. Field trip experience will be required.
2 hours lab.

1305 Heavy Resistance Conditioning II (1, Maximum 2) (Fa, Sp)

An advanced course in basic strength training designed for students interested in developing muscular strength and size. An individualized weight program will be developed for each student in accordance with his/her goal. Students will meet in the Fitness Center, and under the supervision and direction of an instructor, proceed through their individualized programs.
2 lab hours per week.

2011 Intermediate Swimming (1) (Sp)

A course designed for the intermediate swimmer. Skills will be taught and measured according to the American Red Cross level for the intermediate swimmer.
2 class periods.

Area III-Physical Activity

Courses in Area III, listed below, do not apply toward the physical education activity requirement for any degree or certificate program.

1036 Fitness & Aerobic Conditioning (1-Unlimited Maximum) (Fa, Sp, Su)

This course provides students the opportunity to pursue individual fitness goals. Emphasis is placed on fitness as a lifelong pursuit with wellness being the ultimate goal. This course will not apply toward any degree or certificate program offered through Eastern Wyoming College. This course is offered for S/U grade only.

Prerequisites: 3 hour orientation.

Concurrent enrollment in PEAC 1020, 1032, 1033, 1034, 1035, 1271, 1273, 1291 is not allowed.

2 hours lab.

1291 Individual Adapted Physical Education (1) (Fa, Sp, Su)

This course is designed to assist students and community members in rehabilitation of either surgeries or physical weaknesses. In order to enroll in this class, the student must be referred by his/her doctor and the doctor must prescribe the exercise program the student will perform.

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Students thus enrolled will be allowed access to the Fitness Center and must sign an "Assumption of Risk" form prior to his/her first workout. This course is offered for S/U grade only.

Prerequisites: Must have doctor's authorization/prescription of program, and sign release (assumption of risk) form.

Concurrent enrollment in PEAC 1020, 1032, 1033, 1034, 1035, 1036, 1271, 1273 is not allowed.

2 hours lab.

Physical Education-Athletics (PEAT)

Courses listed below do not apply toward the physical education activity requirement for any degree or certificate program.

2025 Rodeo Activities (1, Maximum 2) (Fa, Sp)

½ hour lecture, 1 hour lab

2051 Varsity Golf (1, Maximum 4) (Fa, Sp)

½ hour lecture, 1 hour lab

2062 Varsity Basketball (1, Maximum 2) (Sp)

½ hour lecture, 1 hour lab

2064 Varsity Volleyball (1, Maximum 2) (Fa)

½ hour lecture, 1 hour lab

2065 Varsity Cheerleading (1, Maximum 4) (Fa, Sp)

½ hour lecture, 1 hour lab

Physical Education Professional-Physical & Health Education (PEPR)

1005 Introduction to Physical Education (2) (Fa)

An introductory course designed to introduce and orient future teachers of health, physical education, and recreation to the purposes, objectives, obligations, concepts, and opportunities within these fields.

2 hours lecture.

1052 Prevention of Athletic Injuries/Illness (3) (O)

Teaches prospective athletic trainer basic concepts of prevention of injury and illness by use of conditioning, taping, padding, physicals, nutrition and other means.

3 hours lecture.

1061 Majors Basketball (1) (Fa)

Designed for physical education majors and minors, or those wishing a course in coaching basketball methodology. Course focuses on

advanced skill development with emphasis on teaching progressions in basketball.

1 hour lecture, 1 hour lab.

1062 Majors Volleyball (1) (Sp)

Designed for physical education majors and minors. For those wishing coaching volleyball methodology. Course focuses on advanced skill development with emphasis on teaching progressions in volleyball.

Prerequisite: PEAC 1260 with a grade of "C" or better.

1 hour lecture, 1 hour lab.

2012 Physical Education for Elementary Schools (3) (O)

This course prepares the instructor to plan and instruct a physical education program that will benefit the children of different age and grade levels. Emphasis is placed on learning skill development and human movement of the elementary school child. Class includes a minimum of sixteen hours of field experience under the supervision of an elementary physical education specialist. Students enrolling in this course must also enroll concurrently in EDUC 2005 or have a documented DFS Pre-screen or criminal background check within previous 24 months.

3 hours lecture.

2017 Water Safety Instructor (1) (Su-O)

Procedures and standards as required by the American Red Cross in performance and teaching techniques of swimming. Learn to conduct the community water safety class and seven levels of learning to swim.

Prerequisite: Red Cross Instructor Candidate Training.

½ hour lecture, 1 hour lab.

2395 Physical Education Capstone Experience (2) (O)

This course is designed as a capstone class in the area of physical education. As a capstone class, it is designed to be taken in the final semester that a transfer physical education major is in residence at Eastern Wyoming College. The intent of the class is to determine whether or not a graduating student can perform skills and has knowledge competencies of acceptable levels in physical education to merit advancement to junior status at a transfer institution. In each case, a student seeking an A.A. degree in physical education will work with the faculty member assigned to

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this class to complete skill competency testing, knowledge based competency testing, physical fitness testing, and theory testing. This course is offered for S/U grading only.

Prerequisite: Physical Education, Health and Recreation Major.

1 hour lecture, 2 hours lab.

Physics (PHYS)

1110 General Physics I (4) (Fa-E)

A course in elementary college physics designed for premedical, pre dental, pharmacy students, and others not having a calculus background. Students who have earned credit in Physics 1050 cannot earn additional credit in either Physics 1110 or Physics 1120.

Prerequisites: MATH 1400 and MATH 1405 or equivalent with a grade of "C" or better.

3 hours lecture, 3 hours lab.

1120 General Physics II (4) (Sp-O)

A continuation of Physics 1110. Students who have earned credit in Physics 1050 cannot earn additional credit in either Physics 1110 or Physics 1120.

Prerequisite: PHYS 1110 with a grade of "C" or better.

3 hours lecture, 3 hours lab.

Political Science (POLS)

1000 American & Wyoming Government (3) (Fa, Sp)

Fundamental introductory course which meets the requirements of the Wyoming statutes providing instruction in the provisions and principles of the constitutions of the United States and Wyoming. Students cannot earn credit for both Political Science 1000 and Political Science 1050.

3 hours lecture.

1015 Overview of US & WY Constitutions (2) (Su)

This course provides instruction in the provisions and principles of the Constitutions of the United States and Wyoming via an interactive approach at the Wyoming Boys' State conference. A final report/research paper is required.

1050 Basics in United States and Wyoming Government (2) (Fa, Sp)

An introductory course emphasizing the basic structure and practices of United States and

Wyoming government. The course is designed to serve the community college student seeking a two-year terminal degree, and satisfies the state requirement. Students cannot earn credit for both Political Science 1050 and Political Science 1000.

2 hours lecture.

1070 Election Campaign Politics (1-2, Maximum 2) (O)

A course directed to an analysis of the election campaign in the election year. While emphasis will be directed to local and state campaigns, attention will also be devoted to the national campaign. Students will become acquainted with candidates, issues and political behavior associated with election campaigns.

1 hour lecture, *2 hours lab.

*Students taking the class for one hour will be required to meet basic course requirements while students taking class for two hours will be assigned a candidate to assist in the campaign.

1075 Current Issues in Political Science (1, Maximum 2) (Sp)

A course designed to promote an interest and awareness of current issues in our political system, and offer a forum for the expression and exchange of political opinion.

1 hour lecture.

1100 Wyoming Government (1) (O)

This course provides an introduction to the Constitution and governmental process of Wyoming. Intended for students who have earned credit for American Government at an out-of-state college or by Advance Placement but have not fulfilled the Wyoming Constitution requirement of University Studies.

1 hour lecture.

This course is offered for S/U grade only.

1200 Non-Western Political Cultures (3) (Sp-O)

This course will provide the student an opportunity to appreciate the basic aspects of non-western political cultures and philosophies that shape political institutions and practices in Africa, Asia, and the Middle East.

3 hours lecture.

2000 Current Issues in American Government (3) (Sp)

The purpose of this course is to introduce the student to public analysis and the process of decision making. Attention will be devoted

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to current issues and topics in American government.

Prerequisite: POLS 1000 with a grade of “C” or better or approval of instructor.

3 hours lecture.

2395 Social Science Capstone Experience (0) (0)

The Social Science Capstone Experience is directed toward the application of broad principles in the social sciences with specific attention given to the student’s discipline of study. The course seeks to enhance and enrich the student’s academic background, and involve the student in activities/experiences that demonstrate an ability to continue study in the social sciences.

Prerequisite: Sophomore standing, major in relevant social science, semester of graduation.

2460 Introduction to Political Philosophy (3) (0)

Surveys history of Western political thought including study of concepts and approaches to political philosophy.

3 hours lecture.

2470 Internship I (6) (Sp)

This course will permit a student to become an intern to a Wyoming legislator during a general or budget session of the Wyoming legislature. The student will assist the legislator on a full-time basis and meet with other interns in a state-wide program under the direction of a state coordinator. 40 hours per week during session.

Prerequisite: POLS 1000 with a grade of “C” or better.

Psychology (PSYC)

1000 General Psychology (4) (Fa, Sp)

A general survey of psychology through lecture, discussion, and assigned readings. Major topics will include: a brief history of the science of psychology, the scientific method as applied to psychology, and the physiological and psychological bases of behavior. Subtopics will include: sensation and perception, motivation, emotion, learning, individuality and personality, mental health, and the life span development of the individual.

4 hours lecture.

2000 Research Psychological Methods (4) (0)

An introduction to some of the methods of investigating psychological questions. Students are exposed to the various research strategies

ranging from observational to experimental designs. Topics include: identifying research questions, designing topic proposals, conducting basic research, gathering data, performing statistical analyses, interpreting results, critiquing published research, writing in scientific style, and developing familiarity with the APA format.

Prerequisite: Completion of PSYC 1000 and ENGL 1010 with grades of “C” or better.

3 hours lecture, 2 hour lab.

2125 Forensic Psychology (3) (Sp)

This course introduces the criminal justice/social science major to the uses of psychology in the field. Topics covered include basic criminal profiling, suspect interviewing, psychological theories of crime/delinquency, victimology, legal applications of psychology in conducting assessments, and correctional psychology.

Prerequisite: PSYC 1000 General Psychology and CRMJ 2120 Introduction to Criminal Justice or permission of Instructor.

3 hours lecture.

2210 Drugs and Behavior (3) (Sp)

A survey of the effects of various drugs on behavior. This course focuses on the behavioral, social, historical, and medical aspects of each major class of psychoactive drugs.

Prerequisite: A grade of “C” or better in PSYC 1000.

3 hours lecture.

2300 Developmental Psychology (3) (Sp)

The development and behavior of children from conception through adolescence is stressed.

Emphasis is placed on the major roles played by maturation and learning in the growth of a child.

Prerequisite: A grade of “C” or better in PSYC 1000.

3 hours lecture.

2330 Psychology of Adjustment (3) (Sp)

A study of the individual’s adjustments to the problems of everyday life. Emphasis is given to the discovery of self and the identification of integrative and non-integrative adjustments as they affect self-fulfillment.

Prerequisite: A grade of “C” or better in PSYC 1000.

3 hours lecture.

2340 Abnormal Psychology (3) (Sp)

A survey of major mental and behavioral disorders which explores the identification of

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types of disorders, their etiology, and potential treatment methods.

Prerequisite: A grade of “C” or better in PSYC 1000.

3 lecture hours.

2380 Social Psychology (3) (Fa)

An exploration of social behavior through the viewpoint of psychological theories and research. Topics include, but are not limited to, the science and methods for exploring social behavior, social cognition, culture and socialization, the “self,” interpersonal perception and attraction, conformity, leadership, aggression, and persuasion and propaganda.

Prerequisite: A grade of “C” or better in PSYC 1000.

3 hours lecture.

2395 Social Science Capstone Experience (0) (0)

The Social Science Capstone Experience is directed toward the application of broad principles in the social sciences with specific attention given to the student’s discipline of study. The course seeks to enhance and enrich the student’s academic background, and involve the student in activities/experiences that demonstrate an ability to continue study in the social sciences.

Prerequisite: Sophomore standing, major in relevant social science, semester of graduation.

Range Ecology and Watershed Management (REWM)

1300 Introduction to Water Resources (3) (Sp)

An introductory course presenting the basic principles of water resource management. The course will emphasize regional, applied watershed management which includes rangeland and forest watersheds, irrigated farmlands, fisheries habitat, and water quality. Basic hydrologic concepts and terminology will be introduced.

Prerequisite: MATH 0920 with a grade of “C” or better or appropriate score on placement exam. 2 hours lecture, 2 hours lab.

2000 Principles of Range Management (3) (Sp)

An introductory course that presents systems of grazing, livestock management on the range, measurement of grazing capacity and forage use, and range improvements including revegetation, weed control, and fertilization.

Prerequisite: BIOL 1000 or 1010 with a grade of “C” or better.

3 hours lecture.

2500. Rangeland Plant Identification. (2) (Fa)

Sight identification and distribution of western U.S. rangeland plants.

Prerequisite: BIOL 1000 or BIOL 1010 with a grade of “C” or better.

1 lecture hour, 2 lab hours.

Religion (RELI)

1000 Introduction to Religion (3) (0)

An introduction to world religions. A multi-disciplinary approach is utilized to investigate the similarities and differences that exist between a variety of religions.

Prerequisite: ENGL 1010 with a grade of “C” or better.

3 hours lecture.

Renewable Resources (RNEW)

2345 Natural Resource Ethics (3) (Sp)

Introduces students to ethics in the context of natural resource use, conservation, and preservation. Ethical frameworks include teleological and deontological theories primarily applied to human needs and desires. Concepts and applications of environmental justice are addressed including private property, sustainability, and obligations to future generations. Students cannot earn credit for both RNEW 2345 and PHIL 2345.

Prerequisite: BIOL 1000, BIOL 1010, or PHIL 1000 with a grade of “C” or better.

3 hours lecture.

Rural Entrepreneurship Through Action Learning (REAL)

1510 Introduction to Rural Entrepreneurship (2) (0)

Any student interested in being an entrepreneur may enroll in this course. Students examine the characteristics of entrepreneurs, examine characteristics of successful entrepreneurs, and determine whether or not they could be entrepreneurs. Personal assessments, group-oriented activities, and personal development exercises will be used to develop and expand students’ entrepreneurial potential.

2 hours lecture.

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Safety Education (SAFE)

1510 Fundamentals of Occupational Health & Safety (1) (Fa)

This course is designed to foster the awareness of accident and fire prevention, and to recognize potential hazards to personal and mental health. It will also familiarize the student with the Occupational, Safety, and Health Act of 1970 and its ramifications in industrial and laboratory settings.

1 hour lecture.

1535 OSHA Construction Safety Refresher (.5) (O)

This course is designed for anyone in the construction industry. The course reorients how one can prevent oneself and others from being injured in their work environments. A variety of topics come from the Occupational, Safety, and Health Act of 1970.

This course is offered for S/U grade only.

1536 OSHA Industry Safety Refresher (.5) (O)

This course is designed for industrial workers and supervisors with safety and health responsibilities. Students will be introduced to OSHA policies, procedures and standards as well as general industry safety and health principles covered in OSHA Act Part 1910.

This course is offered for S/U grade only.

1705 OSHA Construction Safety (2) (O)

This course is designed to raise awareness within construction and industry working environments. The course illustrates how one can prevent oneself and others from being injured in their work environments. A variety of topics come from the Occupational, Safety, and Health Act of 1970.

This course is offered for S/U grade only.

2 hours lecture.

Social Work (SOWK)

1000 Introduction to Social Work (4) (Sp)

A foundation course designed to explore the institution and profession of social work and the field of Social Welfare.

4 hours lecture.

Sociology (SOC)

1000 Sociological Principles (3) (Fa, Sp)

An introductory course providing both a survey of the discipline and a foundation for other sociology courses. Major areas of interest being explored range from small groups and families to bureaucracies and social movements. Significant concepts and theories are introduced, along with the tools of social research. Though much attention is given to contemporary American society, comparative and historical material is included.

3 hours lecture.

1100 Social Problems (3) (Sp)

This course explores various approaches to defining and identifying social problems and applies basic sociological concepts and methods to the analysis of selected social problems and issues. Emphasis is placed on the contemporary society of the United States. Cross-cultural and historical comparisons are presented where relevant.

3 hours lecture.

2200 Sociology of Human Sexuality (3) (Fa)

An investigation of human sexuality as a social and cultural phenomenon. Theoretical issues of human sexuality are related to empirical evidence in discussing social attitudes and actual behavior with American society.

Prerequisite: PSYC 1000 or SOC 1000 with a grade of "C" or better.

3 hours lecture.

2350 Race and Ethnic Relations (3) (O)

Examines relations among minority and dominant groups with an emphasis on the society and culture of the United States. Relevant cross-cultural analysis will also be included.

Prerequisite: SOC 1000 or ANTH 1200 with a grade of "C" or better.

3 hours lecture.

2395 Social Science Capstone Experience (0) (O)

The Social Science Capstone Experience is directed toward the application of broad principles in the social sciences with specific attention given to the student's discipline of study. The course seeks to enhance and enrich the student's academic background, and involve the student in activities/experiences that demonstrate an ability to continue study in the social sciences.

Prerequisite: Sophomore standing, major in relevant social science, semester of graduation.

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2400 Criminology (3) (O)

An introduction to the study of the nature and causes of criminal behavior. Biological, psychological, and sociological theories are examined. Types of criminal behavior, historical perspectives, crime statistics, and current trends are also covered.

Prerequisite: SOC 1000 with a grade of "C" or better.

3 hours lecture.

Soil Science-Agriculture (SOIL)

2200 Applied Soils (3) (Fa)

An applied study of the composition and general properties of soils. Emphasis is given to the practical management of those properties and a study of those factors which must be considered in the proper management of those soils.

2 hours lecture, 2 hours lab.

2300 Soil Science and Fertilizer Technology (2) (Sp)

A study of soil fertility and plant nutrition in crop production. Soil-plant relations, diagnostic techniques and methods of evaluating soil fertility are emphasized.

Prerequisite: CHEM 1010 with a grade of "C" or better.

2 hours lecture.

Spanish-Language (SPAN)

1010 1st Year Spanish I (4) (Fa, Sp)

Fundamentals of grammar, composition, reading, and conversation.

4 hours lecture-recitation, 1 hour lab.

1020 1st Year Spanish II (4) (Sp)

A continuation of Spanish 1010.

Prerequisite: SPAN 1010 with a grade of "C" or better.

4 hours lecture-recitation, 1 hour lab.

2030 2nd Year Spanish I (4) (O)

Progressive reading of Spanish prose, with additional review in verbs, idioms, and conversation.

Prerequisites: SPAN 1010 and SPAN 1020 each with a grade of "C" or better.

4 hours lecture-recitation, 1 hour lab.

Speech Pathology & Audiology (SPPA)

1050 Beginning Sign Language (2-3) (O)

This introductory course teaches the use of sign language to familiarize students with communication for the teaching of hearing impaired children. This course is offered for S/U grade only.

Statistics (STAT)

2050 Fundamentals of Statistics (4) (Sp)

A presentation of the central ideas and applications of statistical inference. Topics include the collection and tabulation of data, statistical description of frequency distributions, elements of probability, applications of statistical distributions, confidence interval estimation, tests of hypotheses, analysis of variance for the one-way classification, and simple linear regression and correlation.

Prerequisite: MATH 1000 or MATH 1400 or equivalent with a grade of "C" or better.

4 hours lecture.

Technology (TECH)

1005 Applied Technical Writing (3) (O)

This course focuses on developing the skills needed to write clearly and concisely on the job. Topics include: technical definitions, summary preparation, technical reports, memos, and business letters. The course also includes oral presentations, job search preparation, and word processing and e-mail correspondence in business. This course is intended for students in technical programs.

Prerequisite: Compass Placement Test Score of 31 or higher.

3 hours lecture.

1700 Basic Construction – Plumbing (1) (Fa)

Homeowner remodeling Class 1 – Bathrooms
This course is offered for S/U grade only.

1750 Professional Development & Leadership (0.5, Maximum 2) (Fa, Sp)

In today's demanding marketplace, students need to be prepared to sell themselves and their skills. This course is an employability skill-building program designed to help students develop an extra edge and help employers gain valuable workers. By reinforcing school-to-work competencies of students, it is designed

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to develop the student in four areas: as an individual, as a team member, as a leader and as an employee.

1/2 hour lecture, 1/2 hour lab.

1980 Cooperative Work Experience (1-8) (O)

An enhancement to the student's curriculum that can become a valuable part of the student's college education. It provides students the opportunity to apply their classroom learning in the work environment. A minimum of 100 hours of on-the-job training represents one semester hour.

Theatre & Dance (THEA)

1000 Introduction to Theatre (3) (O)

A brief history of world theatre and the study of modern American theatre, movies, and television. 3 hours lecture.

2050 Theatre Practice (1-3, Maximum 5) (Fa, Sp)

A practical course in the application of scenic construction, set design, lighting design, make-up, costuming, publicity or performance. Students will work in the theatre shop, on crews, or in performance. This course is offered for S/U grade only.

A minimum of 30 lab hours per credit hour.

Truck Driving Training (TTD)

1500 Novice CDL Training (5) (O)

This course prepares the student to take the state required CDL test. It is designed primarily for the energy service industry. On and off highway terrains are utilized as well as late model tractors and loaded trailers, tankers, and high center point of gravity loads may be used in training. Simulation may also be used to replicate dangerous, expensive, or hard-to duplicate scenarios. Upon completion of this course, students must make arrangements to take the DOT test to be issued their commercial driver's license.

Prerequisite: Students attending this course must have completed written exams for the Department of Motor Vehicles and obtained a Commercial Driving Permit for class A or class B vehicles with an Air Brake endorsement. Students must present a valid Federal Department of Transportation (DOT) medical examination certificate and valid Social Security card on the first day of class.

This course is approved for S/U grade only.

Veterinary Technology (VTTK)

Enrollment in Veterinary Technology courses is restricted to Veterinary Technology majors (unless approval is granted by the Division Chair for Sciences.)

1500 Orientation to Veterinary Technology (3) (Fa, Sp)

This course is an introductory course in veterinary technology. Lectures will include the history of the profession, taking patient histories and physical examinations, clinical sanitation, metric conversions, and breed characteristics of domestic animals. Laboratory sessions of 6-8 students will cover restraint of domestic species and identification of veterinary instruments. Students will have assignments for a veterinary computer application lab as well as caring for the dogs and cats that are housed at EWC. 2 hours lecture, 2 hours lab.

1550 Practical Surgical & Medical Experience I (3) (Fa)

Instruction and experience are provided in practical aspects of veterinary surgical and medical nursing. All diagnosing and surgery will be performed by a staff veterinarian. Both large and small animals are used for laboratory sessions. Prerequisite: VTTK 1600 and VTTK 1630 with a grade of "C" or better, VTTK 2500 with a grade of "C" or better or concurrent enrollment in VTTK 2500.

30 hours lecture, 30 hours lab per semester.

1600 Clinical Procedures (4) (Sp)

This course covers introductory anesthesia, animal nursing, emergency medicine, introductory preventive health and euthanasia of animals. Laboratory sessions include practical application of clinical techniques commonly done by veterinary technicians in the treatment of animals. Students will participate in the care of sub animals.

Prerequisite: VTTK 1500 with a grade of "C" or better.

3 hours lecture, 2 1/2 hours lab.

1610 Anatomy and Physiology of Domestic Animals (3) (Fa)

This course consists of two two-hour lecture-demonstration periods per week in the basic anatomy and physiology of domestic animals. 4 hours lecture-demonstration.

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1620 Anatomy and Physiology of Domestic Animals (3) (Sp)

Instruction in anatomy and physiology of domestic animals is completed in this course. The format is the same as in Veterinary Technology 1610.

Prerequisite: VTTK 1610 with a grade of "C" or better.

4 hours lecture-demonstration.

1625 Veterinary Urinalysis (1) (Fa, Sp)

Urinalysis is a lecture/laboratory course which provides instruction in the evaluation of physical and chemical properties of urine, as well as in the microscopic examination of urine sediment.

1/2 hour lecture, 1 hour lab.

1630 Veterinary Hematology (3) (Sp)

This course provides instruction in the principles of obtaining and examining blood samples from different species of animals commonly seen in veterinary practice today. The laboratory sessions include a practical approach to staining and evaluating the blood of animals in both healthy and disease conditions. Emphasis is placed on the recognition of the types and development stages of erythrocytes and leukocytes. Blood coagulation mechanisms, the immune system, preparation and handling of cytology samples and training in the use of automated cell counters are also included.

2 hours lecture, 2 hours lab.

1700 Medical Terminology (2) (Fa)

This course will introduce students to terminology that they will use in succeeding veterinary technology courses, report writing, professional practice, and professional reading. Emphasis will be placed on word usage, word meanings, and word pronunciations.

Prerequisite: Placement score for DVST 0640 or better.

2 hours lecture.

1750 Veterinary Pharmacology (3) (Fa, Sp)

This class introduces the basic principles of the uses of therapeutic agents in veterinary medicine and the classification of therapeutic agents in common use. Specific subject matter includes definitions and terminology; routes of administration and dosage forms; history of pharmacology; measurements used in pharmacology; actions and effects of drugs; assimilation and elimination of drugs in animals; regulation of the manufacture, sale, and use of

drugs; factors that modify drug action; and study of classes and examples of specific drugs.

1751 Pharmaceutical Calculations (1) (Fa, Sp)

A course designed to introduce students to basic mathematical calculations used in the field of pharmacology. Major topics to be covered include: guidelines for writing prescriptions, abbreviations used in prescription writing, drug dose calculations using both the ratio and the factor label method, metric conversions, and medication dispensing.

Prerequisite: DVST 0900 with a grade of "C" or better or appropriate score on placement exam or MATH ACT of 21 or better.

1 hour lab.

1755 Veterinary Parasitology (2) (Fa)

This course will introduce students to the macro-parasites that commonly infect veterinary species. Students will learn how to collect samples, perform diagnostic tests on these samples, identify parasites, and will gain hands-on experience in these areas. In addition, material covering prevention, treatment, life cycles, and clinical disease will be presented.

Prerequisite: BIOL 1000, BIOL 1010, CHEM 1000, or CHEM 1020 with a grade of "C" or better.

2 hours lecture, 1 hour lab.

2500 Principles of Anesthesiology and Radiography (4) (Fa, Sp)

Principles of anesthesiology are presented in the first half of the semester and principles of radiography are presented in the second half of the semester. The laboratory portions are given to small groups of 3 to 6 students and consists of demonstrations and hands-on experience in the use of anesthesia and radiography equipment. Topics in anesthesiology include narcotic and nonnarcotic analgesics, cholinergic blocking agents, tranquilizers, neurolept analgesics and disassociative anesthetics, general parenteral anesthetics, gas anesthetics, muscle relaxants, and local anesthetics. Topics in radiography include x-ray and x-ray generation; x-ray film, film storage, cassettes, and intensifying screens; developing solutions and processing; tube rating charts and exposure charts; control factors and radiographic quality; radiation safety; positioning; contrast media and diagnostic ultrasound.

Prerequisite: VTTK 1750 and VTTK 1751 with a grade of "C" or better.

3 hours lecture, 2 hours lab.

Courses of Instruction

2510 Clinical Experience I (1) (Fa, Sp, Su)

First-year students spend a minimum of 40 hours at a veterinary clinic of their choice, approved by the instructor. The emphasis of this course will be on observation of the normal workings of a veterinary practice. Course requirements can be fulfilled at any time or times that do not conflict with regular semester courses, such as winter interim session, spring break, summer, or weekends during the regular semester. This course must be completed before the beginning of the third semester in veterinary technology. The instructor must have information identifying the site for the completion of VTTK 2510 five working days prior to the start date for Clinical Experience I.

Prerequisite: VTTK 1500 with a grade of "C" or better or concurrent enrollment in VTTK 1500.

2520 Clinical Experience II (1) (Fa, Sp, Su)

This course is a continuation of Clinical Experience I, but emphasizes hands-on experience by the student. A minimum of 40 hours must be spent at a veterinary clinic of the student's choice, approved by the instructor. Course requirements can be fulfilled at any time or times that do not conflict with regular semester courses, such as summer, winter interim session, spring break, or weekends during the regular semester. This course can be taken at the same clinic as Clinical Experience I. The requirements cannot be completed concurrently with Clinical Experience I, and must be completed before Clinical Experience III. The instructor must have information identifying the site for the completion of VTTK 2520 five working days prior to the start date for Clinical Experience II.

Prerequisite: VTTK 1500, VTTK 1550, VTTK 1600, VTTK 1625, VTTK 1630, VTTK 1755, and VTTK 2510 with a grade of "C" or better.

2550 Practical Surgical & Medical Experience II (3) (Sp)

This course is a continuation and expansion of Veterinary Technology 1550. Instruction and experience will continue in practical aspects of veterinary surgical and medical nursing. All diagnosing and surgery will be performed by a staff veterinarian. Both large and small animals are used for laboratory sessions.

Prerequisite: VTTK 1550 with a grade of "C" or better.

2 hours lecture, 2 hours lab.

2600 Diagnostic Microbiology (2) (Fa)

This is a lecture and laboratory course which provides instruction in the fundamentals of microorganisms and their role in disease production. Laboratory exercises introduce the student to the techniques utilized in the identification of bacterial, fungal, and viral veterinary pathogens.

3 hours a week for 8 weeks lecture, 2 hours a week for 16 weeks lab.

2610 Infectious Diseases (2) (Fa)

Instruction is provided in the basic principles of infection, including etiologic agents, pathogenicity, and host's immune response. Much of the course consists of descriptions of infectious diseases of veterinary and zoonotic importance, and methods of control and prevention.

4 hours a week for 8 weeks lecture.

2620 Noninfectious Diseases (3) (Sp)

An introductory course on the causes, appearance, and handling of noninfectious diseases in companion and economic animals. Instruction covers traumatic, metabolic, nutritional, immune-mediated, neoplastic, congenital, toxicologic, and physical causes of disease. A three- to four-week block is devoted to electrolyte balance and fluid therapy.

3 hours lecture.

2650 Clinical Chemistry (1) (Fa, Sp)

This lecture/laboratory course provides instruction in measurement of the chemical constituents of various body fluids, particularly serum and plasma. The relationships of the test results with organ function in health and disease are stressed.

Prerequisite: VTTK 1630 with a grade of "C" or better.

1 hour lecture plus scheduled lab sessions.

2700 Laboratory and Exotic Animals (3) (Fa)

An introduction to the uses, care, housing, and diseases of laboratory and exotic animal species is provided, both in commercial usage and in the home/pet environment. Emphasis is on the mammalian species, with information also provided concerning reptiles and birds. The course includes hands-on laboratory training in animal handling and restraint along with training in blood collection, drug dosing and administration, anesthesia, and related techniques.

2 hour lectures, 2 hours lab.

Courses of Instruction

2750 Clinical Problems (3) (Fa, Sp)

This course consists of one lecture hour per week of preparation for the job market, the comprehensive examination and the Veterinary Technician National Examination. One hour of lecture and two hours of lab per week will involve actual or developed veterinary clinical activities that faculty present for students to work through. The final examination for this course will be the Veterinary Technology Program Comprehensive Examination that students must pass with a 70% or better to successfully complete this course. Prerequisites: All veterinary technology courses with a grade of "C" or better except VTTK 2950 (concurrent enrollment in veterinary technology courses is acceptable).
2 hours lecture, 2 hours lab.

2810 Veterinary Office Procedures (2) (Fa, Sp)

The course covers office procedures that a veterinary technician would be expected to participate in when working in a veterinary situation. Topics covered include medical records, computerized recordkeeping, veterinary ethics, telephone communications, and working relationships in the veterinary hospital.
2 hours lecture.

2815 Large Animal Techniques (.5) (Fa, Sp)

The work in this lab course will be done by the students under supervision. Techniques to be studied include: physical restraint in various species, breeding soundness evaluation for bulls, castration of various species, dehorning of cattle and goats, reduction of genital prolapse in cattle and sheep, fluid therapy techniques in various species, venipuncture for blood collection and/or IV therapy in various species, paracentesis of the abdominal cavity in cattle, local and general anesthesia techniques in various species, and some obstetrical techniques. This course is offered for S/U grade only.
2 hours lab.

2816 Large Animal Techniques II (.5) (Fa, Sp)

This lab course is similar to Large Animal Techniques I; however, different procedures will be practiced. This course is offered for S/U grade only.
2 hours lab.

2900 Nutrition in Veterinary Medicine (3) (Sp)

(3 hours of UW Transferable Elective)
Topics in this course include a brief review of chemical principles relevant to nutrition;

classification of nutrients and feeds; basic anatomy and physiology of the digestive systems of domestic animals; basic nutritive processes including ingestion, digestion, absorption, circulation, metabolism, and excretion; specific feeding programs for various classes of cattle, swine, horses, and companion animals. Basic ration formulations for beef cattle and small animals are stressed as are other species on a comparative basis.

Prerequisite: BIOL 1000, BIOL 1010, CHEM 1000, CHEM 1010, or CHEM 1020 with a grade of "C" or better.

2 hours lecture.

2950 Clinical Experience III (4) (Fa, Sp, Su)

This course consists of 320 hours of work experience during which the student works in veterinary or veterinary-related institution that has been approved by the instructor. Evaluation forms are completed by the cooperating establishment. This course is offered for S/U grade only. The instructor must have information identifying the site for the completion of VTTK 2950 five working days prior to the start date for Clinical Experience III.

Prerequisites: VTTK 2520 with a grade of "C" or better or concurrent enrollment in VTTK 2520.

Welding Technology (WELD)

1520 Welding for Fun (2) (O)

This course will feature safety and basic welding procedures for those individuals who are interested in the more artistic aspects of welding. This course is not intended for those pursuing certification standards or job-entry level skills.
1 hour lecture, 2 hours lab.

1650 Print Reading: Welding Symbols (3) (O)

This course teaches the fundamentals of shop print interpretation as applied in the welding trade, including the standard American Welding Society (AWS) symbols used in design, fabrication, and construction.
3 hours lecture.

1700 General Welding (3) (Fa, Sp)

The study of shielded metal arc welding, oxyacetylene welding, cutting and brazing processes. The student will develop the skills necessary to produce good quality welds on mild steel joints using filler materials commonly used in industry. Manual oxyacetylene cutting of straight and bevel cuts. Safety practices will be included.
1 hour lecture, 5 hours lab.

Courses of Instruction

1755 Shielded Metal Arc Welding (5) (Fa)

Training to develop the manual skill necessary to make high quality shielded metal arc welds in the flat and horizontal positions on mild steel plate, single and multiple pass. To weld using mild steel electrodes, low hydrogen electrodes and iron power electrodes using AC and DC welding power sources.

1 hour lecture, 9 hours lab.

1760 Advanced Shielded Metal Arc Welding (4)

(Sp)

This course provides the training in shielded metal arc welding (SMAW) to develop the manual skills necessary to produce high quality multipass fillet and groove welds on medium thickness mild steel plates with and without backing in all positions.

8 hours lab.

Prerequisite: WELD 1755.

1772 FCAW (2) (O)

The study of flux cored arc welding (FCAW) fundamentals and safety. It provides training to develop the manual skills necessary to make high quality welds in all positions on mild steel plates.

4 hours lab.

1773 GMAW (2) (O)

The study of gas metal arc welding (GMAW) fundamentals and safety. It provides training to develop the manual skills necessary to make high quality welds in all positions on mild steel plates.

4 hours lab.

1780 GTAW - Plate (3) (O)

The study of gas tungsten arc welding (GTAW) fundamentals and safety. It provides training to develop the manual skills necessary to make high quality GTAW welds in all positions on mild steel, stainless steel and aluminum, using both direct and alternating current.

6 hours lab.

2500 Structural Welding (5) (O)

This course provides training to develop the welding skills necessary to produce high quality groove welds with backing on 1" thick mild steel plates in all positions using the shielded metal arc welding and flux cored arc welding processes.

Weld testing will be based on the American Welding Society Structural Welding Code D1.1.

1 hour lecture, 9 hours lab.

2510 Pipe Welding I (4) (O)

This course provides training to develop the welding skills necessary to produce high quality groove welds on open root steel pipe in the 2G, 5G, and 6G (45 degree fixed) positions using E6010 and E7010-G electrodes with downhill travel. Weld testing will be based on the American Petroleum Institute (API 1104, 1107) pipeline welding practices.

1 hour lecture, 7 hours lab.

2520 Pipe Welding II (5) (O)

Shielded metal arc welding pipe (uphill)—the student will gain technical knowledge of pipe welding procedures and develop welding skills necessary to make high quality welds on open root mild steel pipe in the 2G, 5G, and 6G positions using E6010 and E7018 electrodes.

1 hour lecture, 8 hours lab.

2540 Pipe Layout and Fabrication (2) (O)

This course will provide the fundamentals of Layout and Fabrication of a weldment consisting of plate and typical pipe connections.

Prerequisite: MATH 1515 with a grade of "C" or better.

1 hour lecture, 2 hours lab.

2670 Welding Inspection Technology (3) (Fa)

Students will study the theory of shielded metal arc welding (SMAW), oxyacetylene welding (OAW), cutting (OC), brazing (TB), and destructive and nondestructive testing methods. Attention will be given to the types of welds, joints, filler rods, and electrodes used with metals commonly joined by welding. Safety practices will be included.

3 hours lecture.

2680 Welding Metallurgy (3) (Sp)

The study of gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), flux cored arc welding (FCAW), submerged arc welding (SAW), air carbon arc cutting (AAC), and plasma arc cutting (PAC) processes. Also the study of procedure and welder qualifications, basic welding metallurgy, metal identification, test positions, destructive and nondestructive testing methods, filler rods and electrodes, and various welding codes commonly used for welding of carbon and alloy steels, cast irons, and hardfacing applications.

3 hours lecture.

Zoology (ZOO)

1500 Introduction to Human Anatomy and Physiology (4) (Sp)

This lecture and laboratory course is an introductory study of the structure and function of the human body designed to meet the needs of students preparing for some LPN programs, medical office assistant programs, and some Health and Physical Education majors. Credit may NOT be earned for both ZOO 1500 and ZOO 2015/2025, nor does this course prepare a student to take ZOO 2025.

3 hours lecture, 3 hours lab.

2015 Human Anatomy (4) (Fa)

This lecture/laboratory course provides instruction concerning the structure of the human body with regard to its composition and arrangement. Students in biology, nursing, allied health, and pre-professional programs are encouraged to take this course.

Prerequisite: BIOL 1000 or 1010 with a grade of "C" or better.

3 hours lecture, 3 hours lab.

2025 Human Physiology (4) (Sp)

This lecture/laboratory course provides instruction concerning the function of the human body with regard to the manner in which the component parts interact with each other to ensure the survival of the organism. Students in biology, nursing, allied health, and pre-professional programs are encouraged to take this course.

Prerequisite: ZOO 2015 with a grade of "C" or better.

3 hours lecture, 3 hours lab.

2400 Vertebrate Natural History (4) (Sp)

A study of the major classes of vertebrates with special emphasis on those found in the Rocky Mountain Region. Focus will be on morphological and taxonomic characteristics, functional relationships, environmental adaptations, and life cycles.

3 hours lecture, 2 hours lab.

Prerequisite: BIOL 1000 or 1010 with a grade of "C" or better.

2450 Principles of Fish and Wildlife Management (3) (Fa)

An introductory course for the following majors: wildlife conservation, biology, agriculture, range management, extension agents, ecology,

environmental science, recreation management, and education. The topics include wildlife values, habitat, ecology and management, population structure, natural history, and contemporary issues. Prerequisite: BIOL 1000 or 1010 with a grade of "C" or better.

3 hours lecture.