Course Catalog Addendum

2020-2021

Updated 2/04/2021

The purpose of this addendum is to indicate where Colorado Northwestern Community College has amended current information or added additional information to the college catalog. The information published herein is effective for the 2020-2021 Catalog (Summer 2020, Fall 2020, and Spring 2021). If any of these changes impact your ability to graduate, please contact the dean for your area of study

Academic Regulations:

Academic Standing Rules – This policy has been updated.
-Effective Immediately, added to the addendum 12-15-2020.

Academic Programs Section:

Accounting -The Associate of Applied Science Accounting Specialized Course requirements credits has been corrected from 27 credits to 33 credits. Elective credits have been corrected from choose 18 credits to choose 12 credits. ACC 125 Computerized Accounting, and ACC 280 Internship have been added to the related course requirements for the Occupational Certificate in Accounting.
-Effective Spring 2021, added to the addendum 12-18-2020.

Aviation - The Occupational Certificate in Aviation Maintenance Technology – Airframe and Occupational Certificate in Aviation Maintenance Technology – Powerplant have been removed.
-Effective Spring 2021, added to the addendum 12-18-2020.

Financial Assistance Section:

Veterans Assistance – The following statement has been added: "VA students' records must be kept for 3 years following the ending date of the last period certified to VA. Referenced law: Title 38 CFR 21.4209(f))"
-Effective Immediately, added to the addendum 12-15-2020.

Satisfactory Academic Progress- This policy has been updated
-Effective Immediately, added to the addendum 12-15-2020.

Return of Title IV Funds- This policy has been updated.
-Effective Immediately, added to the addendum 12-15-2020.

Course Descriptions Section:

Updated Course Descriptions - Delivery location labels have been added to existing course descriptions
-Effective Spring 2021, added to the addendum 11-24-2020.

New Course Descriptions – New courses have been added
-Effective Spring 2021, added to the addendum 11-24-202

Academic Regulations

Academic Standing Rules

During a student's educational experience, CNCC will monitor satisfactory progress through an Academic Alert process. The academic standards apply to all students who have completed nine or more credits in residence. "In residence" refers to courses taken at CNCC. Courses taken elsewhere and transferred in do not apply.

Student Academic Status may be reassigned at any time due to academic or student conduct violations. These changes are based on student history, severity of the violations, and professional programmatic requirements which can vary by the student's course of study. After a finding of violation of the Code of Conduct, restriction of student's privileges for a designated period of time including the probability of more severe disciplinary sanctions if the student is found to be violating any College regulations during the probationary period.

Academic Standing is based on three factors:

1. Student Conduct Violations
2. Academic Integrity Violations
3. Student's Term and Cumulative GPA – (Process Below)

Academic Progress Statuses:

Good Standing: Student who have completed their first academic term, maintained a 2.0 GPA or higher, and have no academic or conduct concerns or outstanding violations.
Initial Standing: All students start here in first academic term.
Academic Alert: Student has had below a 2.0 GPA for one semester, may have minor conduct or academic violations.
Academic Probation: Student has had two consecutive terms below a 2.0 GPA, has academic and/or student conduct concerns.
Academic Probation Continuing: student may remain in Probation if semester GPA is higher than 2.0 but cumulative GPA is still below. Student showing progress toward improving GPA, academic or student conduct issues.
Academic Suspension: Students who have three consecutive semesters below a 2.0 GPA, egregious and/or multiple academic or student conduct violations that demonstrate a pattern of behavior that is unbecoming of a CNCC Student.

GPA Calculation Process:

The GPA calculations for this procedure may not match those used for financial aid purposes or athletic eligibility.
Cumulative Grade Point Average will be abbreviated as CGPA.
Term Grade Point Average will be abbreviated as TGPA.

Based on course completion and CGPA standards, students earn an academic standing as follows:

- **Initial Standing Student** has completed fewer than 9 credits with a CGP => 2.0 for all classes completed.

- **Good Standing Student** has completed at least 9 cumulative credit hours with a CGPA => 2.00 for all classes completed.

- **Returning to Good Standing** By the conclusion of the Academic Probation term, the student must raise their CGPA to at least 2.0. If this condition is met, the student returns to Good Standing.
- **Academic Alert Student** has completed fewer than 9 credits with a CGPA < 2.00 for all classes completed.
- **Probation (initial)** Student has completed at least 9 cumulative credit hours with a CGPA < 2.00 for all classes completed.
- **Probation (continuing)** If a student on Academic Probation earns a TGPA of at least 2.00 for all classes completed during the term, but fails to raise their CGPA to at least 2.0 for all classes completed, the student will be allowed to attend the next term, but will remain on Academic Probation.

• **Suspension** If a student on Academic Probation earns a TGPA of less than 2.00 for all classes completed, the student will be suspended and will not be allowed to enroll at any CCCS College for the next term, excluding summer term (as summer term may not be used as a "suspension term").

Suspension Rules:

- Summer term may not be used as a "suspension term."
- Summer term may be used to remediate (improve) the GPA. If a student wishes to enroll for summer term after being suspended, they will need to follow CNCC's processes.
- Initial suspension is for one term, excluding summer term.
- A second suspension is for two terms, excluding summer term.
- If a student, who has served the suspension time for initial suspension or second suspension, wishes to return, the student will be allowed to re-enroll only after meeting with an academic advisor at the CCCS college that the student wishes to attend. The student will be placed on Academic Probation.
- A third suspension is for two full years, or 4 academic terms, excluding summers.

If a student, **who has served the third suspension time of two years,** wishes to return, the student must meet with an advisor from the CCCS college the student wishes to attend in order to get their suspension hold removed.

Suspension Appeals:

- Students may appeal their suspension by submitting a Student Petition to the Vice President of Instruction. At a maximum, students may appeal to CNCC and to one other CCCS college.
- If the appeal is approved, the student will be placed on Academic Probation.
- If the appeal is not approved, the student may be dropped from all classes registered for in the upcoming term(s). Students are ultimately responsible for their enrollment and need to check their enrollment schedule for accuracy.
- Students on suspension need to check with CNCC regarding enrollment for summer term classes.
- If a student's appeal is granted a meeting with the Vice President of Instruction will be required upon the students return to school.

NOTE: Academic appeals are different from Financial Aid appeals. Please contact the financial aid office regarding Financial Aid appeals.

NOTE: Students' transcripts will include the following notation as appropriate: Good Standing, Probation, Continued Probation, and Suspension (Initial, Second, and Third).

Expulsion

Expulsion from the college shall mean that the student is not allowed to enroll for any classes at the college for four semesters, including the summer semester. Expelled students wishing to re-enter the College must make application for readmission and will be readmitted at the discretion of the Vice President of Student Affairs.

Academic Distinction Lists

Any student who completes 12 or more credit hours (not including developmental courses) in one semester and earns a term GPA of 4.0 will be placed on the President's Academic Distinction List.

Any student who completes 12 or more credit hours (not including developmental courses) in one semester and earns a term GPA of 3.75 to 3.99 will be placed on the Vice President's Academic Distinction List. Any student who completes 12 or more credit hours (not including developmental courses) in one semester and earns a term GPA of 3.5 to 3.74 will be placed on the Dean's List.

Recalculation of Grade Point Average

A student who re-enrolls at CNCC after an absence of two of more years may petition the Vice President of Instruction to have his/her cumulative hours recalculated. The petitioning student must be enrolled and have completed at least 6 hours with a 2.0 minimum GPA. Up to 30 credits can be excluded from the GPA. If the petition is approved, the student resumes his/her academic program and begins with a new cumulative grade point average. All courses taken will remain on the permanent record, but only courses with marks of "A", "B", or "C" will be allowed toward degree requirements and count in the total hours earned.

ACCOUNTING

Associate of Applied Science
Accounting

Credits	General Education Requirements- 15 Credits	Course Number
	Written Communication – 3 Credits	
3	**English Composition I**	**ENG 121**
3	Mathematics – 3 Credits	
	College Algebra or Higher	**MAT 121**
6	Social & Behavioral Science – 6 Credits	
	Principles of Macroeconomics	**ECO 201**
	Principles of Microeconomics	**ECO 202**
3	**Choose one additional course (3 Credits)**	
	AH1: ART 110,111,112,207; MUS 120,121,122; THE 105,211,212;	
	AH2: HUM 115,121,122,123;LIT115,201,202,205,211,212,221,222,225;	
	AH3: PHI 111,112,113,114,214,218;	
	AH4: FRE/GER/ITA/JPN/RUS/SPA 211,212	
	SS1: AGE 102; POS 105,111,205,225;	
	SS2: GEO 105,106; SS3: AGR 260; ANT 101,107,111; CRJ 110;	
	PSY 101,102,205,217,226,227,235,238,249,	
	SOC 101,102,205,207,208,215,216,231,237	
	SC1: AGY 240; AST 101,102; BIO 104,105,111,112,201,202,204;	
	CHE 101,102,105,111,112; ENV 101; GEO 111,112; GEY 111,112;	
	MET 150; NRE 251; PHY 105,111,112,211,212; SCI 155,156	
	SC2: ENV 110, GEY 108	
33	Specialized Course Requirements- 33 Credits	
4	Accounting Principles I	ACC 121
4	Accounting Principles II	ACC 122
3	Income Tax	ACC 131
4	Intermediate Accounting I	ACC 211
3	Cost Accounting	ACC 226
3	Introduction to Business	BUS 115
3	Legal Environment of Business	BUS 216
3	Business Communications/Report Writing	BUS 217
3	Computerized Accounting	ACC 125
3	Internship	ACC 280
12	Electives- Choose 12 Credits	
3	Payroll Accounting	ACC 115
4	Intermediate Accounting II	ACC 212
3	Governmental and Not-for-Profit Accounting	ACC 216
3	Cost Accounting II	ACC 227
3	Business Statistics	BUS 226
3	Introduction to PC Applications	CIS 118
3	Principles of Management	MAN 226
3	Principles of Marketing	MAR 216
3	PC Spreadsheet Concepts	CIS 155
60	**Total Required Credit Hours**	

This program is financial aid eligible.
gtPathways courses are indicated in **BOLD** print

Occupational Certificate
Accounting

Credits	Specialized Course Requirements- 14 Credits	Course Number
4	Accounting Principles I	ACC 121
4	Accounting Principles II	ACC 122
3	Payroll Accounting	ACC 115
3	Introduction to Business	BUS 115
	Related Course Requirements – 9 Credits	
3	Introduction to PC Applications	CIS 118
3	Computerized Accounting	ACC 125
3	Internship	ACC 280
23	**Total Required Credit Hours**	

This program is financial aid eligible.

Financial Assistance

Veterans Assistance

VA students' records must be kept for 3 years following the ending date of the last period certified to VA. Referenced law: Title 38 CFR 21.4209(f))

Satisfactory Academic Progress

Federal and state regulations require that all student financial aid recipients maintain specific academic standards in order to maintain their financial aid eligibility. Except for some private and institutional funds, all forms of financial aid (grants, loans, work-study, and scholarships) are affected by this policy. These standards are applied to a student's entire academic history at CNCC, including periods when financial aid was not received.

The Financial Aid Office will evaluate student academic progress at the end of each semester based on three criteria:

- Cumulative GPA
- Cumulative Completion Rate (%)
- Maximum Time Frame

Satisfactory Academic Progress Standards

- Cumulative GPA – 2.0 or above
- Cumulative Completion Rate – Students must complete at least 67% of cumulative attempted credit hours. The completion rate is defined as the percentage of the total number of credits completed divided by the total number of credits attempted over the entirety of the student's academic record at the school performing the calculation. Transfer and remedial credits are included when computing the student's completion rate.
- Maximum Time Frame – Students will be eligible for financial assistance for up to 150% of the number of credits required to complete their degree/certificate program. (Example – degree is a total of 60 credits a student can receive financial assistance for up to 90 credits.) Transfer and remedial credits are included when computing the student's maximum time frame.

Students who meet these three academic standards will be considered in Good Standing. Students failing to meet these requirements will be ineligible for financial aid. Reinstatement will be made only after students have met the requirements to be considered making satisfactory progress or an appeal has been approved.

Grades of U, I, W, AW, Z, U/D, U/F, SP, and AU will affect your cumulative completion rate but not your cumulative GPA. Grade of F will affect both your completion rate and your cumulative GPA. Students are responsible for notifying the Financial Aid Office of grade changes that affect their student academic progress standing.

Incomplete grade of "I" will not affect a student's cumulative completion rate or cumulative GPA. When an incomplete has been granted a student has until the assigned date, if no date is assigned then the course must be completed no later than the end of the next 16-week semester, to complete the course and receive a grade. At the end of the assigned date, or next 16-week semester, the instructor of record will supply a final grade to the Registrar. Once a final grade is received the student's academic progress will be reassessed.

Repeat course credit hours will affect a student's earned and unearned credits; the grade will affect the cumulative GPA.

Notification of Satisfactory Academic Progress

Students in "warning", "alert", and "ineligible" statuses of Satisfactory Academic Progress will be notified by mail sent to their permanent home address on record at the institution.

Satisfactory Academic Progress "Warning"

- Fails to maintain a Cumulative GPA of 2.0 or greater
- Has a Cumulative Completion Rate of less than 67%

Students maintain their financial aid eligibility while on warning but must bring their Cumulative GPA and Cumulative Completion Rate above the stated standards to avoid ineligibility in subsequent terms.

Satisfactory Academic Progress Alert

A student will be placed on Satisfactory Academic Progress **Alert** if he/she has attempted 110% of the number of credit hours required for their degree or eligible certificate program. This is your official alert notice that once you receive 150% you will be Ineligible for Financial Aid.

Satisfactory Academic Ineligibility

A student will be placed on Satisfactory Academic Progress **Ineligibility** if:

- Student failed or withdrew from all of his/her classes in one semester or period of enrollment
- After a warning term the Cumulative GPA is below 2.0
- After a warning term the Cumulative Completion Rate is below 67%
- Student has attempted more than 150% of the required number of credits for a degree or certificate. If at any point in time it is determined that a student cannot complete their program of study within 150% of the program length, student will be ineligible for aid.

Rights of Appeal

If a student is placed on Financial Aid Ineligibility, they have the right to submit a written appeal to the Financial Aid Office. The financial aid appeal form can be obtained from the Financial Aid Office.

Appeals must explain any mitigating circumstances that prevented the student from successfully completing their coursework and must be accompanied by supporting documentation. Some examples of mitigating circumstances are medical issues, mental health issues, death in the family, birth of a child, or divorce/separation.

The appeal must also explain why the circumstances no longer exist and what the student will do to ensure that they will meet Satisfactory Academic Progress standards in the future.
Appeals must be received at least four weeks prior to the end of the term in order to be considered for reinstatement for the current term, appeals can take up to two weeks to review. It is the responsibility of the student to submit an appeal in a timely manner if they wish to have their ineligibility reconsidered and aid reinstated.

Appeal decisions will be emailed to the student's college assigned email address. Students with a successful appeal will be placed on "probation" for one payment period, during which time the student may receive financial aid funds. At the end of the "probation" period the student must be in "good standing" to continue to receive financial aid funds. If after the "probation" period the student has not met the Satisfactory Academic Progress standards the student will lose their financial aid eligibility.

By student request, any student appeal that has been denied, can be sent to the Vice President of Student Services for review. The decision of the Vice President is final.

Return of Title IV Funds

Federal regulations require a return of Title IV funds if a student received federal financial assistance and withdrew or ceased to attend for any reason on or before completing 60% of the enrollment period. The percentage of Title IV aid to be returned is equal to the number of calendar days remaining in the enrollment period divided by the number of calendar days in the enrollment period. Scheduled breaks of more than five consecutive days are excluded from the total number of calendar days.

The office of financial aid is required to calculate how much federal financial aid a student has earned if that student:

- Completely withdraws, or
- Does not complete all modules (courses which do not span the entire length of the payment period)

For students enrolled in modules: A student is not considered as withdrawn if the Office of Financial Aid obtains a written confirmation at the time of the withdrawal that he or she will attend a module that begins later in the same enrollment period. The newly added courses will also count as a positive confirmation of

future attendance if the student registered for the course or courses at the time of a withdrawal. Dropping courses in a later module while still attending a current module is also not considered to have withdrawn.

The official withdrawal date will be either the date the student begins the withdrawal process or the date the student provides official notification of intent to withdraw. The unofficial withdrawal (for a student with a failing grade) will be reported by the instructors based on the last date of attendance.

Official and Unofficial Withdrawals

The official withdrawal date will be either the date the student begins the withdrawal process or the date the student provides official notification of intent to withdraw. The unofficial withdrawal (for a student with a failing grade) will be reported by the instructors based on the last date of attendance.

Return of Title IV Calculation:

Percentage of Title IV Aid Earned	**Amount of Title IV Aid Earned**	**Amount of Title IV Aid to Return**
Days Attended **/** Total Days in the Enrollment Period = % Completed	Total Disbursed Aid x %Completed = Earned Aid	Total Disbursed Aid **-** Earned Aid = Amount to be Returned

- If the percentage completed is higher than 60%, the student has earned all the Title IV funds for the period.
- If a student who received financial aid never attends, all disbursed funds will be returned.

Return of Unearned Title IV Aid (34CFR 668.22)

Federal regulations require schools to perform calculations within 30 days from the date the school determines a student's withdrawal and to return the funds within **45 days** of the calculation.
If a student does not pay the balance owed to the institution within **45 days** of the date of notification, the balance will be forwarded to the State of Colorado Collections Agency and the student's records will be placed on financial hold. In addition, any grant funds owed to the government will be transferred and reported as an "overpayment" to the U.S. Department of Education.

Aid programs subject to the repayment calculation will be returned in this order

- Unsubsidized Direct Loans
- Subsidized Direct Loans
- Direct PLUS Loans
- Federal Pell Grant
- Iraq and Afghanistan Service Grants
- Federal Supplemental Educational Opportunity Grant (FSEOG)

Post Withdrawal Disbursement 34 CFR 668.22(a) (3) & (4)

Title IV funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. When a student drops or withdraws, the student may no longer be eligible for the full amount of the Title IV funds that the student was originally scheduled to receive. If the amount disbursed to the student is less than the amount the student earned and for which the student is otherwise eligible he or she is eligible to receive a Post-Withdrawal Disbursement of the earned aid that was not previously received.

Disbursing Title IV aid earned

All **post-withdrawal disbursements** are applied to the student account first for balances owed to the institution. Any resulting credit balance on the student's account must be disbursed as soon as possible and no later than 14 days after the calculation of R2T4. 34 C.F.R 668.22 (a)(5) and (6); 34 C.F.R 668.164 (h) and (j).

- Grant funds must be disbursed within 45 days.
- Loan funds must be offered to the student within 30 days, allowing the student at least 14 days to respond for a total of 45 days.

The College will notify the student in writing of any Title IV grant or loan repayment. The letter will inform the student of the dollar amount owed, the program, the method for repaying the funds and to whom, and the consequences of failing to repay the funds.

Course Descriptions

ACADEMIC ACHIEVEMENT

AAA 090 ACADEMIC ACHIEVEMENT STRATEGIES/3
(45 lecture hours)
Develops personalized approaches to learn and succeed for easier transition into college. Topics include goal-setting, time management, textbook reading strategies, note-taking, test-taking, listening techniques, concentration and memory devices, and critical thinking for student success.
Location(s): Online

AAA 101 COLLEGE 101: THE STUDENT EXPERIENCE/1
(15 lecture hours)
Introduces students to college culture and prepares them for the challenges they will face in higher education. Through a series of interactive seminars, students discover learning in a multicultural environment and use college and community resources to attain education and career goals.
Location(s): Online

AAA 109 ADVANCED ACADEMIC ACHIEVEMENT/3
(45 lecture hours)
Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.
Location(s): Online

ACCOUNTING

ACC 115 PAYROLL ACCOUNTING/3
(45 lecture hours)
Prerequisite: **ACC 121.**
Studies federal and state employment laws and their effects on personnel and payroll records. The course is non-technical and is intended to give students a practical working knowledge of the current payroll laws and actual experience in applying regulations. Students are exposed to computerized payroll procedures.
Location(s): Online

ACC 121 ACCOUNTING PRINCIPLES I/4
(60 lecture hours)
Introduces the study of accounting principles for understanding of the theory and logic that underlie procedures and practices. Major topics include the accounting cycle for service and merchandising companies, special journals and subsidiary ledgers, internal control principles and practices, notes and interest, inventory systems and costing, plant assets and intangible asset accounting, and depreciation methods and practices
Location(s): Online

ACC 122 ACCOUNTING PRINCIPLES II/4
(60 lecture hours)
Prerequisite**: ACC 121.**
Continues the study of accounting principles as they apply to partnerships and corporations. Major topics include stocks and bonds, investments, cash flow statements, financial analysis, budgeting, and cost and managerial accounting.
Location(s): Craig; Virtual; Online

ACC 125 COMPUTERIZED ACCOUNTING/3
(45 lecture hours)
Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls.
Location(s): Craig; Online

ACC 131 INCOME TAX/3
(45 lecture hours)
Strongly Recommended: **ACC 121**
This course is the study of basic concepts of federal income taxation, including gross income, deductions, accounting periods and methods, and property transactions, with emphasis on taxation of individuals and sole proprietorships.
Location(s): Online

ACC 135 SPREADSHEET APPLICATIONS FOR ACCOUNTING/3
(45 lecture hours)
Prerequisites: **ACC 122 or spreadsheet experience.**
This course introduces spreadsheets as an accounting tool. Using an accounting perspective, the student applies fundamental spreadsheet concepts. The spreadsheet is used as a problem solving and decision-making tool.
Location(s): Online

ACC 211 INTERMEDIATE ACCOUNTING I /4
(60 lecture hours)
Prerequisite: **ACC 122.**
Focuses on comprehensive analysis of generally accepted accounting principles (GAAP), accounting theory, concepts and financial reporting principles for public corporations. It is the first of a two-course sequence in financial accounting and is designed primarily for accounting and finance majors. Focuses on the preparation and analysis of business information relevant and useful to external users of financial reports. Explores the theories, principles and practices surveyed in Accounting Principles and critically examines `real-world` financial analysis and reporting issues.
Location(s): Online

ACC 212 INTERMEDIATE ACCOUNTING II/4
(60 lecture hours)
Prerequisite: ACC 211

Focuses on the theoretical and practical aspects of accounting for long-term liabilities, stockholders` equity, investments, pensions and leases. Includes income tax allocation, financial statement analysis, cash flow statements and accounting methods changes.
Location(s): Online

ACC 215 ACCOUNTING INFORMATION SYSTEMS & EBUSINESS/3
(45 lecture hours)
Studies the principles, concepts and tools used in the analysis, design, implementation and integration of accounting systems, internal controls systems and accounting procedures. Key elements of system analysis, business systems design, accounting software selection, and the acquisition and implementation of systems are studied. Techniques and systems for electronic control systems, electronic data interchange, electronic funds transfer and web commerce are explored.
Location(s): Craig; Virtual

ACC 216 GOVERNMENTAL & NOT-FOR-PROFIT ACCOUNTING/3
(45 lecture hours)
Addresses concepts of budgetary control as a matter of law and public administration theory. Accounting principles and procedures necessary to implement budgetary controls for governmental units and other not-for-profit institutions and organizations are presented.
Location(s): Online

ACC 226 COST ACCOUNTING I/3
(45 lecture hours)
Prerequisite**: ACC 122**
Studies cost accumulation methods and reports. Focuses on the concepts and procedures of job order, process, standard, and direct cost systems, budgeting, planning, and control of costs.
Location(s): Online

ACC 227 COST ACCOUNTING II /3
(45 lecture hours)
Prerequisite**: ACC 226.**
Continues ACC 226 and focuses on the decision making aspects of managerial accounting using electronic spreadsheet applications for assigned problems. Topics include product pricing strategy, capital budgeting, statement of cash flow, and application of linear programming.
Location(s): Online

ADVENTURE GUIDE

ADG 150 OUTFITTING AND GENERAL GUIDING/5
(112.5 lab hours)
Prerequisite**: ASC 243 or Program approval**
Teaches the fundamental skills needed to plan and implement guided backcountry trips using horses and mules.
Location(s): Rangely

AGRICULTURE BUSINESS

AGB 180 AGRI-BUSINESS INTERNSHIP I/0-12
(45 hours per credit)

Receives particular training on the job as an employee in the agri-business industry. The student gains experience in various phases of the business through performing the functions and duties assigned by their employer.
Location(s): Concurrent

AGRICULTURE ECONOMICS

AGE 102 AGRICULTURE ECONOMICS/3
(45 lecture hours)
Focuses on economic principles as applied to agriculture through price discovery with producer supply and consumer demand, governmental policies, rural development, and resource management. (*SS1)*
Location(s): Rangely

AGE 205 FARM AND RANCH MANAGEMENT/3
(30 lecture hours; 30 lab hours)
Provide students with practical experience in applying principles of economics, business, marketing and finance to the management of a farm/ranch operation.
Location(s): Rangely; Concurrent

AGE 208 AGRICULTURE FINANCE/3
(45 lecture hours)
Prerequisite: **AGE 205**
Emphasizes principles of finance and their application to agriculture and agribusiness, including the time value of money, net present value analysis, interest, credit lending institutions, financial statements and financial ratios.
Location(s): Rangely; Concurrent

AGE 210 AGRICULTURE MARKETING/3
(45 lecture hours)
Studies the agricultural marketing system and methods of marketing crops and livestock. Emphasizes hedging with futures options.
Location(s): Rangely

AGRICULTURE

AGR 185 INDEPENDENT STUDY/0-12
(45 hours per credit)
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified teacher.
Location(s): Concurrent

AGR 260 WORLD INTERDEPENDENCE-POPULATION AND FOOD/3
(45 lecture hours)
Covers the study of world population and food production and distribution. Problems and opportunities concerning population and food are discussed in a global context. (*SS3)*
Location(s): Rangely

AGRICULTURE CROPS & SOILS

AGY 100 GENERAL CROP PRODUCTION/4
(45 lecture hours; 30 lab hours)
Focuses on production and adaptation of cultivated crops, principles affecting growth, development, management, and utilization.

AGY 240 INTRODUCTORY SOIL SCIENCE/4
(45 lecture hours; 30 lab hours)
Prerequisite: **CHE 101 or 111 or instructor permission**
Focuses on formation, physical properties, chemical properties and management of soils emphasizing conditions that affect plant growth. (*SC1)*

AGRICULTURE DIESEL AND EQUIPMENT

**ADE 135 SMALL GASOLINE ENGINES/4 **
(75 contact hours)
Teaches the theory of both the 2-cycle and 4-cycle engines to help the student effectively adjust, maintain, overhaul, and trouble-shoot these engines in a minimum amount of time.
Location(s): Concurrent

AGRICULTURE MECHANICS

AME 105 BASIC AG MECHANIC SKILLS/2
(15 lecture hours; 30 lab hours)
Covers safety, proper tool use, tool reconditioning, A.C. electricity, D.C. electricity, domestic water supply and farm sanitation systems.
Location(s): Concurrent

AME 107 GENERAL POWER MECHANICS/2
(15 lecture hours; 30 lab hours)
Teaches the theory of operation and maintenance of small engines and related power equipment used on the farm.

Location(s): Concurrent

AME 118 FARM CARPENTRY/3
(15 lecture hours; 60 lab hours)
Focuses on safety, hand and power tool use, farm building planning and site location, concrete, farm building design and construction and materials of construction.
Location(s): Concurrent

AME 125 AGRICULTURAL MACHINERY/3
(30 lecture hours; 30 lab hours)
Emphasizes the safe operation, construction, purpose, maintenance and adjustment of farm machinery.

AME 151 FUNDAMENTALS OF WELDING/3
(15 lecture hours; 60 lab hours)
Develops basic welding skills, principles, and practices in arc and oxy-acetylene welding.
Location(s): Concurrent

AGRICULTURAL PRODUCTION

AGP 160 RANCH HORSEMANSHIP SKILLS/2
(30 lecture hours)
Prerequisites: **ASC 243 or Program Approval**
Offers an introduction to the skills utilized in ranching operations where horses are involved in moving, sorting, and restraining cattle. Emphasis is placed on safety, proper techniques and in developing proficiency in equipment selection and care, basic horsemanship, riding, and roping.
Location(s): Rangely

AGP 180 PRODUCTION AG INTERNSHIP/0-12
(45 hours per credit)
Students are employed at work or at home in a production agriculture setting, either farming or ranching. This work experience must cover a minimum of 320 hours, involving the student in all facets of the operation. Emphasizes records, managerial decisions, and production agriculture skills. Guidance and supervision is the responsibility of the supervising employer and Coordinator of Production Agriculture.
Location(s): Concurrent

ANIMAL SCIENCE

ASC 100 ANIMAL SCIENCE/3
(45 lecture hours)
Prerequisite: **CCR 092**
Studies the basic fundamentals of livestock production pertaining to principles of breeding, genetics, nutrition, health, and physiology of beef, sheep, swine, dairy, and horses. Focuses on the Animal Science Industry in general and each species industry in regard to history, current situation, and future direction.
Location(s): Rangely; Concurrent

ASC 102 INTRODUCTION TO EQUINE SCIENCE/4
(45 lecture hours; 30 lab hours)
Covers the basics of the equine industry, breeds, selection, form to function, care and management, soundness, health, reproduction, feeding, facilities, physiology, production systems and management systems
Location(s): Rangely

ASC 143 ELEMENTARY WESTERN EQUITATION/2
(60 lab hours)
Provides the student with an introduction to basic safe handling and riding of the western horse.
Location(s): Rangely

ASC 145 ELEMENTARY ENGLISH EQUITATION/2
(60 lab hours)
Provides the student with an introduction to basic safe handling and riding of the English horse.
Location(s): Rangely

ASC 185 INDEPENDENT STUDY/0-12
(45 hours per credit)
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified teacher.
Location(s): Concurrent

ASC 216 INTERMEDIATE ENGLISH EQUITATION/2
(60 lab hours)
Provides the advanced English rider with an introduction to jumping.
Location(s): Rangely

ASC 225 FEEDS AND FEEDING/4
(45 lecture hours; 30 lab hours)
Prerequisite: **ASC 100**

Focuses on the basic nutrients, common feeds and feed additives, anatomy of digestive systems, and basic feeding practices for beef, sheep, and dairy. The lab portion of the class is devoted to calculating and balancing rations to fulfill nutrient requirement for farm animals for growth, finishing, reproduction, lactation, work, and wool production. Explores least cost ration balancing on the computer.
Location(s): Rangely

ASC 230 FARM ANIMAL ANATOMY & PHYSIOLOGY/3
(45 lecture hours)
Prerequisite: **BIO 111**
Introduces students to the basic concepts of farm animal anatomy and physiology with emphasis on concepts relating to nutrition, reproduction, Immunology, and growth of the basic farm species. ~Anatomy and Physiology is taught in the context of applying basic principles to production practices in the industry including reproductive management, livestock nutrition management, and animal health practices.
Location(s): Rangely

ASC 243 INTERMEDIATE WESTERN EQUITATION/2
(60 lab hours)
Prerequisite: **ASC 143**
Provides the student basic to intermediate horsemanship and maneuvers, improved body position, and advanced control.
Location(s): Rangely

ASC 245 EQUINE EVALUATION/3
(30 lecture hours; 15 lab hours)
Focuses on a system of development for evaluating a horse's conformation and its relationship to performance. Covers various aspects of evaluating horses while enhancing the student's deductive reasoning and public speaking skills.
Location(s): Rangely

ASC 250 LIVE ANIMAL AND CARCASS EVALUATION/3
(67.5 lecture hours)
Prerequisite: **ASC 100**
Explores meat carcass evaluation and the related yield and quality grading system. Emphasizes selection of breeding stock based on performance data. Covers comparative selection, grading, and judging of market and breeding classes of livestock based on knowledge of phenotype, performance, information, and/or carcass merit.
Location(s): Rangely

ASC 288 LIVESTOCK PRACTICUM/2
(90 practicum hours)
Provides experiential learning with beef cattle, dairy cattle, swine and sheep**.**
Location(s): Rangely

ANTHROPOLOGY

ANT 101 CULTURAL ANTHROPOLOGY/3
(45 lecture hours)
Examines the study of human cultural patterns, including communication, economic systems, social and political organizations, religion, healing systems, and cultural change. (SS3)
Location(s): Online

ANT 107 INTRODUCTION TO ARCHAEOLOGY/3
(45 lecture hours)
Introduces the science of recovering the human prehistoric and historic past through excavation, analysis, and interpretation of material remains. The course provides a survey of the archaeology of different areas of the Old and New Worlds, the works of selected archaeologists, and major archaeological theories.(SS3)
Location(s): Online

ANT 111 BIOLOGICAL ANTHROPOLOGY WITH LABORATORY/4
(45 lecture hours; 30 lab hours)
Focuses on the study of the human species and related organisms, and examines principles of genetics, evolution, anatomy, classification, and ecology, including a survey of human variation and adaptation, living primate biology and behavior, and primate and human fossil evolutionary history. (*SC1)*
Location(s): Online

ANT 121 CULTURES OF THE SOUTHWEST/3
(45 lecture hours)
Explores the major prehistoric cultures (Paleoindian, Desert Culture, Anasazi,

Hohokam, Mogollon) and ethnographic views of the historic cultures (Pueblos, Navajo, Apache, Pima, Papago, Spanish-American, and Anglo-American). The purpose of the course is to trace the stages through which these cultures have passed in order to evaluate environmental influences on human activities and to perceive human influences on the environment.
Location(s): Rangely

ANT 201 INTRODUCTION TO FORENSIC ANTHROPOLPGY/3
(45 lecture hours)
Studies the basic principles of forensic anthropology, an applied field within the discipline of physical anthropology. The course includes the study of the human skeleton, practical application of physical anthropology and archaeology, and judicial procedure, as they relate to the identification of human remains within a medico-legal context. *(SS3)*
Location(s): Online

ANT 215 INDIANS OF NORTH AMERICA/3
(45 lecture hours)
Studies the origins of native peoples in the New World, through the development of geographic culture areas, to European contact and subsequent contemporary Native American issues.(SS3)
Location(s): Online

ANT 275 SPECIAL TOPICS/0.5-6 CREDITS
(7– 225 lecture/lab hours)
Provides opportunity for off-campus field experience or study of a special topic in anthropology. Field study may occur at archaeological sites, museums, host educational institutions, within ethnographic situations, or other anthropologically appropriate places. Study of a special topic may include that derived from physical anthropology, cultural anthropology archaeology, or other anthropological discipline.
Location(s): Craig

ART

ART 110 ART APPRECIATION/3
(45 lecture hours)
Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. *(AH1)*
Location(s):Craig; Rangely; Online; Concurrent

ART 111 ART HISTORY: ANCIENT TO MEDIEVAL I/3
(45 lecture hours)
Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Ancient through the Medieval periods.*(AH1)*
Location(s):Craig; Online; Concurrent

ART 112 ART HISTORY: RENAISSANCE TO MODERN II/3
(45 lecture hours)
Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Renaissance to 1900. *(AH1)*
Location(s): Online

ART 121 DRAWING I/3
(15 lecture hours; 60 art studio hours)
Investigates the various approaches and media that students need to develop drawing skills and visual perception.
Location(s): Concurrent

ART 124 WATERCOLOR I/3
(15 lecture hours; 60 art studio hours)
Provides on introduction to the basic techniques and unique aspects of materials involved in the use of either transparent or opaque water media or both. Color theory is included.

ART 128 FIGURE DRAWING I/3
(15 lecture hours; 60 art studio hours)
Introduces the basic techniques of drawing the human figure.

ART 131 VISUAL CONCEPTS 2-D DESIGN/3
(15 lecture hours; 60 art studio hours)
Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media.
Location(s): Craig; Concurrent

ART 132 VISUAL CONCEPTS 3-D DESIGN/3
(15 lecture hours; 60 art studio hours)

Focuses on learning to apply the elements and principles of design to three dimensional problems.
Location(s): Craig

ART 151 PAINTING I/3
(15 lecture hours; 60 art studio hours)
Explores basic techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting to depict form and space on a two-dimensional surface.
Location(s): Craig

ART 161 CERAMICS I/3
(15 lecture hours; 60 art studio hours)
Introduces traditional and contemporary ceramic forms and processes including hand building and throwing on the potter's wheel.
Location(s): Craig

ART 162 HANDBUILT CLAY I/3
(15 lecture hours; 60 art studio hours)
Provides instruction in several methods of hand building and the study of functional and decorative design elements.
Location(s): Craig

ART 165 SCUPLTURE 1/3
(15 lecture hours; 60 art studio hours)
Introduces the fundamentals of sculpture such as modeling, casting, carving, and the processes of assemblage.
Location(s): Craig

ART 207 ART HISTORY 1900 TO PRESENT/3
(45 lecture hours)
Provides students with the knowledge base to understand the visual arts as related to Modern and Contemporary visual art. Surveys world art of the twentieth century, including Modernism to Post-Modernism. *(AH1)*
Location(s): Craig

ART 221 DRAWING II/3
(15 lecture hours; 60 art studio hours)
Explores expressive drawing techniques with an emphasis on formal composition, color media and content or thematic development.
Location(s): Craig

ART 251 PAINTING II/3
(15 lecture hours; 60 art studio hours)
Prerequisite: ART 151
This course further explores techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting, with emphasis on composition and content development.
Location(s): Craig

ART 252 PAINTING III/3
(15 lecture hours; 60 art studio hours)
Provides continued exploration of techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting, with emphasis on composition and content development.
Location(s): Craig

ART 261 CERAMICS II/3
(15 lecture hours; 60 art studio hours)
Prerequisite: **ART 161**
A continuation of ART 161, this course emphasizes skill, technique and form.
Location(s): Craig

ART 262 CERAMICS III/3
(15 lecture hours; 60 art studio hours)
Encourages students to develop an individual style of wheel thrown and hand built ceramic forms with continuing involvement in surface treatment.
Location(s): Craig

ART 263 CERAMICS IV/3
(15 lecture hours; 60 art studio hours)
Continues advanced work with emphasis on various clay bodies, unique glazes and engobes, and combining different textures and shapes, and development of personal forms.
Location(s): Craig

ASTRONOMY

AST 101 PLANETARY ASTRONOMY W/LAB/4
(45 lecture hours; 30 lab hours)
Focuses on the history of astronomy, naked-eye sky observation, tools of the astronomer, contents of the solar system and life in the universe. Incorporates laboratory experience.
Location(s): Craig; Online

AST 102 STELLAR ASTRONOMY W/LAB/4
(45 lecture hours; 30 lab hours)
Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a

whole, including cosmology and relativity. Stellar phenomena including white dwarves, black holes will be explored. Incorporates laboratory experience.(SC1)
Location(s): Craig; Online

AUTOMOTIVE

ASE 102 INTRO TO THE AUTOMOTIVE SHOP/2
(30 lecture hours)
Prepares the incoming automotive student to work in the shop safely and gain familiarity with the shop and common equipment.
Location(s): Craig

ASE 103 AUTO MAINTENANCE I/2
(30 lecture hours)
This course addresses three primary areas of concern for the average car owner. The first is the basics of how various systems on the automobile work. The second is the maintenance required for the vehicle. The third is the financial concerns of owning the vehicle.
Location(s): Craig

ASE 110 BRAKECS I/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Covers basic operation of automotive braking systems. Includes operation, diagnosis, and basic repair of disc, drum, and basic hydraulic braking systems.
Location(s): Craig

ASE 111 AUTO BRAKE II/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Teaches skills to perform service checks and procedures to automotive foundation braking system and to identify components and types of ABS and traction control systems.
Location(s): Craig

ASE 120 BASIC AUTO ELECTRICITY/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Introduces vehicle electricity and includes basic electrical theory, circuit designs, and wiring methods. Focuses on multi-meter usage and wiring diagrams.
Location(s): Craig

ASE 122 AUTO ELECTRICAL SAFEY SYSTEMS/1
(22.5 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Teaches the student to Identify operation of vehicle lighting systems, Supplemental Inflatable Restraints (SIR), windshield wiper, driver warning systems and vehicle accessories.
Location(s): Craig

ASE 123 STARTING & CHARGING SYS/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Covers the operation, testing and servicing of vehicle battery, starting and charging systems. Includes voltage testing of starter and generator, load testing and maintenance of a battery.
Location(s): Craig

ASE 130 GENERAL ENGINE DIAGNOSIS/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Teaches students how to perform basic engine diagnosis to determine condition of engine. This will include engine support systems.
Location(s): Craig

ASE 134 AUTOFUEL & EMISSION SYSTEMS I/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Focuses on lecture and laboratory experiences in the diagnosis and repair of automotive fuel emission control systems, filter systems and spark plugs. Course also includes maintenance to diesel (DEF) systems.
Location(s): Craig

ASE 140 STEERING & SUSPENSION I/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Focuses on lecture and related experiences in the diagnosis and service of suspensions and steering systems and their components.
Location(s): Craig

ASE 141 SUSPENSION & STEERING II/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Covers design, diagnosis, inspection, and service of suspension and steering systems used on light trucks and automobiles. Course includes power steering and SRS service.
Location(s): Craig

ASE 150 MANUAL DRIVE TRAIN & AXLE MAINTENANCE/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Studies the operating principles and repair procedures relating to axle-shaft and universal joints.
Location(s): Craig

ASE 151 AUTOMOTIVE MANUAL TRANSMISSION/TRANSAXLES & CLUTCHES/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive manual transmissions, transaxles and clutches and related components.
Location(s): Craig

ASE 152 MANUAL TRANSMISSION, TRANSAXLES & CLUTCHES II/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive differentials, four wheel and all-wheel drive units.
Location(s): Craig

ASE 160 AUTOMOTIVE ENGINE REPAIR /2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Focuses on lecture and laboratory experiences in the service of cylinder head, valve-train components and components of the cooling system. Course also includes engine removal and re-installation and re-mounting systems.
Location(s): Craig

ASE 161 ENGINE REPAIR & REBUILD/3
(67.5 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Focuses on lecture and laboratory experiences in the disassembly, diagnosis and reassembly of the automotive engine. Topics include the diagnostic and repair procedures for the engine block and head assemblies.
Location(s): Craig

ASE 162 AUTOMOTIVE ENGINE SERVICE /2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Covers engine sealing requirements and repair procedures; engine fasteners, bolt torque and repair of fasteners. Course will also cover cooling system and basic engine maintenance.
Location(s): Craig

ASE 180 INTERNSHIP/1
Prerequisite: ASE 102, ASE 103 or ASE G1
Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.
Location(s): Craig

ASE 210 AUTOMOTIVE POWER AND ABS BRAKE SYSTEMS/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Covers the operation and theory of the modern automotive braking systems. Includes operation, diagnosis, service, and repair of the anti-lock braking systems, power assist units and machine operations of today's automobile.
Location(s): Craig

ASE 220 SPECIALIZED ELECTRONICS TRAINING/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Provides a systematic approach to automotive electrical systems. Builds from the basic electrical principles and concepts through semiconductors and microprocessors. Features on-bench exercises. Students practice diagnostic procedures that have applications to present and future automotive electronics and electrical systems.
Location(s): Craig

ASE 221 AUTO/DIESEL BODY ELECTRICAL/4
(90 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Provides a comprehensive study of the theory, operation, diagnosis, and repair of vehicle accessories.
Location(s): Craig

ASE 231 AUTOMOTIVE COMPUTERS & IGNITION SYSTEMS/2
(45 contact hours)

Prerequisite: ASE 102, ASE 103 or ASE G1
Focuses on lecture and laboratory experiences in the inspection and testing of typical computerized engine control systems.
Location(s): Craig

ASE 233 AUTO FUEL INJECTION AND EMISSION SYSTEMS II/4
(90 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Focuses on lecture and related laboratory experiences in the diagnosis and repair of electronic fuel injection systems and modern exhaust systems.
Location(s): Craig

ASE 235 DRIVEABILITY & DIAGNOSIS/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Emphasizes lecture and related laboratory experience in diagnostic techniques and the use of diagnostic scan tools, oscilloscopes, lab scopes, multi-meters and gas analyzers. Students diagnose live vehicle driveability problems.
Location(s): Craig

ASE 236 ADVANCED DRIVEABILITY DIAGNOSIS/REPAIR/4
(90 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Focuses on lecture and laboratory experiences in the inspection, testing and repair of typical computerized engine control systems on customer vehicles.
Location(s): Craig

ASE 240 SUSPENSION AND STEERING II/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Covers operation of steering and power steering systems. It will also include different alignment types and procedures.
Location(s): Craig

ASE 250 AUTOMATIC TRANSMISSION/ TRANSAXLE SERVICE/1
(22.5 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Focuses on practical methods of maintaining, servicing, and performing minor adjustments on an automatic transmission and transaxle.
Location(s): Craig

ASE 251 AUTOMATIC TRANSMISSION/ TRANSAXLE SERVICE/2
(45 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Focuses on practical methods of maintaining, servicing, and performing minor adjustments on an automatic transmission and transaxle.
Location(s): Craig

ASE 264 INTRO TO HVAC SYSTEMS/1
(22.5 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Covers basic operation of the Heating and Air Conditioning components.
Location(s): Craig

ASE 265 HEATING AND AIR CONDITIONING SYSTEMS/4
(90 contact hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Emphasizes lecture and related laboratory experiences in the diagnosis and service of vehicle heating and air conditioning systems and their components
Location(s): Craig

ASE 287 COOPERATIVE INTERNSHIP/1-12
(up to 450 internship hours)
Prerequisite: ASE 102, ASE 103 or ASE G1
Develops practical objectives assigned by an automotive employer providing an on-the-job learning experience at an approved automotive repair facility.
Location(s): Craig

AVIATION MAINTENANCE TECHNOLOGY

AMT 101 A&P PREPARATION/4
(45 lecture hours; 30 lab hours)
Covers basic subjects, such as mathematics, physics and aircraft drawings and provides a foundation for further studies in the A&P program.
Location(s): Rangely

AMT 102 BASIC ELECTRICS/4
(45 lecture hours; 30 lab hours)
Covers basic ac and dc electric theory as applied to aircraft systems.
Location(s): Rangely

AMT 103 WEIGHT & BALANCE AND GROUND HANDLING/2
(15 lecture hours; 30 lab hours)
Emphasizes aircraft weight and balance theory and the performance of weight and balance calculations. Also covers the requirements for ground handling, servicing, taxiing and towing aircraft.
Location(s): Rangely

AMT 104 REGULATIONS & PUBLICATIONS/3
(30 lecture hours; 30 lab hours)
Focuses on the Federal Aviation Administration and manufacturer's publications pertaining to aircraft operation and maintenance.
Location(s): Rangely

AMT 105 MATERIALS AND PROCESSES/6
(75 lecture hours; 30 lab hours)
Focuses on aircraft structures, materials, and hardware, the use of precision measuring tools, and methods of non-destructive testing.
Location(s): Rangely

AMT 106 CORROSION CONTROL AND FLUID LINES/2
(15 lecture hours; 30 lab hours)
Emphasizes the causes of corrosion and methods to prevent and treat corrosion in aircraft structures. Covers construction of rigid and flexible aircraft fluid lines.
Location(s): Rangely

AMT 111 WOOD, FABRIC, AND FINISHES/2
(15 lecture hours; 30 lab hours)
Focuses on application, maintenance and repair of aircraft structural wood and fabric covering materials, and the application and maintenance of protective finishes.
Location(s): Rangely

AMT 112 SHEET METAL/6
(45 lecture hours; 90 lab hours)
Covers characteristics of various aluminum alloys, the procedures and precautions used when working with them, the selection of appropriate hardware, and the principles of making repairs to aluminum structures.
Location(s): Rangely

AMT 113 AIRCRAFT WELDING/1
(10 lecture hours; 20 lab hours)
Focuses on varieties and methods of working with aircraft steel and the principles of soldering, silver soldering, gas arc and heliarc welding. Emphasizes gas welding of thin wall steel tubing.
Location(s): Rangely

AMT 114 ASSEMBLY, RIGGING AND INSPECTION/3
(22.5 lecture hours; 45 lab hours)
Focuses on materials and principles of aircraft control rigging and the replacement of structural aircraft components. Performs 100-hour and special inspections.
Location(s): Rangely

AMT 115 COMPOSITE CONSTRUCTION/2
(15 lecture hours; 30 lab hours)
Introduces composite materials as applied to aircraft construction and the maintenance and repair of items made of these materials.
Location(s): Rangely

AMT 121 HYDRAULIC SYSTEMS/3
(22.5 lecture hours; 45 lab hours)
Focuses on hydraulic principles, hydraulic fluids, system components, and operation of hydraulic and pneumatic systems.
Location(s): Rangely

AMT 122 AIRCRAFT ELECTRICS/4
(30 lecture hours; 60 lab hours)
Prerequisite: AMT 102
Focuses on the operation, troubleshooting and repair of aircraft electrical systems with emphasis on alternators, motors, and lighting systems and the wiring, control and circuit protection devices for each.
Location(s): Rangely

AMT 123 INSTRUMENT AND WARNING SYSTEMS/2
(22.5 lecture hours; 15 lab hours)
Emphasizes aircraft flight instrument theory and operation and the inspection, maintenance and installation requirements for these systems.
Location(s): Rangely

AMT 124 FUEL SYSTEMS/2
(15 lecture hours; 30 lab hours)

Focuses on the operation of aircraft fuel systems and the procedures utilized in inspecting, troubleshooting, and maintaining these systems.
Location(s): Rangely

AMT 125 MISCELLANEOUS SYSTEMS/3
(30 lecture hours; 30 lab hours)
Studies airframe systems including communication, navigation, fire warning and extinguishing, and cabin atmospheric control systems.
Location(s): Rangely

AMT 126 AVIATION ELECTRONICS/3
(30 lecture hours; 30 lab hours)
Prerequisite: AMT 102 or 122.
Studies alternating current, capacitive and inductive circuits with emphasis on solid state and optical electric devices.
Location(s): Rangely

AMT 127 LANDING GEAR SYSTEMS/3
(22.5 lecture hours; 45 lab hours)
Focuses on operation, troubleshooting, and repair of aircraft landing gear systems.
Location(s): Rangely

AMT 201 RECIPROCATING ENGINE THEORY/4
(45 lecture hours; 30 lab hours)
Emphasizes the theory, operating principles, and construction features of aircraft reciprocating engines.
Location(s): Rangely

AMT 202 RECIPROCATING FUEL METERING AND INDUCTION SYSTEMS/3
(30 lecture hours; 30 lab hours)
Reviews aircraft fuel delivery system components and operating principles. Studies carburetor and fuel injection system controls that meter fuel to the engine.
Location(s): Rangely

AMT 203 RECIPROCATING IGNITION SYSTEMS/2
(15 lecture hours; 30 lab hours)
Introduces aircraft piston engine ignition systems, including classifications, components, theory, starting systems, maintenance, servicing, and repair.
Location(s): Rangely

AMT 205 RECIPROCATING ENGINE MAINTENANCE/4
(15 lecture hours; 90 lab hours)
Prerequisite: AMT 201.
Focuses on engine maintenance and overhaul procedures and includes an actual engine overhaul.
Location(s): Rangely

AMT 206 RECIPROCATING PROPELLER SYSTEMS/2
(15 lecture hours; 30 lab hours)
Introduces the study of aircraft propellers including fixed pitch, constant speed, feathering, reversing, and de-icing systems.
Location(s): Rangely

AMT 207 ENGINE ELECTRICS AND INSTRUMENT SYSTEMS/2
(15 lecture hours; 30 lab hours)
Studies electric systems that apply to engine operation with emphasis on starting and generating systems. Also includes the pressure, temperature, position and speed indicating instruments that pertain to engine operation.
Location(s): Rangely

AMT 211 TURBINE ENGINE THEORY/4
(45 lecture hours; 30 lab hours)
Focuses on the theory, operating principles, and construction features of turbine aircraft engines.
Location(s): Rangely

AMT 212 TURBINE FUEL SYSTEMS/2
(15 lecture hours; 30 lab hours)
Studies turbine engine fuel delivery, fuel control operation, fuel control design, and maintenance procedures.
Location(s): Rangely

AMT 213 MISCELLANEOUS TURBINE SYSTEMS/3
(22.5 lecture hours; 45 lab hours)
Studies turbine engine starting, ignition, instrument and fire protection systems and the maintenance of these systems.
Location(s): Rangely

AMT 215 TURBINE ENGINE MAINTENANCE/4
(15 lecture hours; 90 lab hours)
Prerequisite: AMT 211.

Focuses on maintenance and inspection practices pertaining to turbine aircraft engines.
Location(s): Rangely

AMT 216 TURBINE PROPELLERS/1

(7.5 lecture hours; 15 lab hours)

Covers turbo-prop system components, operations, and maintenance, including operation of a feathering and reversing turbo-prop.
Location(s): Rangely

AMT 218 TROUBLESHOOTING/3

(22.5 lecture hours; 45 lab hours)

Introduces students to principles of troubleshooting and a method of analyzing problems assisting students to better understand aircraft systems and extend the principles to troubleshooting of complex aircraft systems.
Location(s): Rangely

AMT 280 INTERNSHIP/12

Provide hands-on experience in the aviation maintenance industry through application of class information to work experiences.
Location(s): Rangely

AVIATION TECHNOLOGY

AVT 100 AVIATION HERITAGE/3

(45 lecture hours)

Introduces students to the history of aviation and aeronautics. The course explores the history of flight and the science of flight within the context of culture, economics, society, politics, technology, and military/naval conflict. The student will gather information on the history of human flight. In addition, the student will investigate how the progress and development in aviation have and will impact the social, economic, technological and environmental aspects of our global community.
Location(s): Rangely

AVT 101 PRIVATE PILOT GROUND SCHOOL/4(60 lecture hours)

Co-requisites: AVT 102

Prepares student for the Private Pilot Airplane, Single Engine, Land FAA Knowledge Exam.
Location(s): Rangely

AVT 105 AVIATION METEOROLOGY/4 (60 lecture hours)
Focuses on recognition, interpretation and evaluation of atmospheric weather as it relates to and affects aviation.
Location(s): Rangely

AVT 110 AVIATION PHYSIOLOGY/3

(45 lecture hours)

Explores aeromedical information, causes, symptoms, prevention and treatment of flight environment disorders. Altitude effects, spatial disorientation, body heat imbalance, visual anomalies and psychological factors are included as they relate to pilot performance and survival effectiveness. Acquaints the student with the importance of physiological and psychological factors involved in flight and instills an appreciation of the requirements necessary to survive in the flight environment.
Location(s): Rangely

AVT 111 INSTRUMENT PILOT GROUND SCHOOL/4 (60 lecture hours)

Prerequisite: AVT 101

Focuses on preparation for the FAA Instrument Rating Knowledge Exam.
Location(s): Rangely

AVT 121 PRIVATE PILOT FLIGHT I/2

(45 lab hours)

Prerequisites: AVT 101 or Instructor permission.

Focuses on flight training in preparation of Stage Check 1 for the Private Pilot Airplane, Single Engine Airplane. Land FAA Practical Test, and completing requirements for Stage 1 test.
Location(s): Rangely

AVT 122 PRIVATE PILOT FLIGHT II/2

(45 lab hours)

Prerequisites: AVT 101 or Instructor permission.

Focuses on flight training in preparation of Stage Check 2 and Stage 3 for the Private Pilot Airplane, Single Engine Airplane. Land FAA Practical Test, and completing all requirements for the Private Pilot Certification.
Location(s): Rangely

AVT 131 INSTRUMENT PILOT FLIGHT I/2

(45 lab hours)

Prerequisites: AVT 101 or Instructor permission.

Focuses on flight training in preparation of Stage Check 1 for the Instrument Pilot Airplane, Single Engine Airplane FAA Practical Test, and completing requirements for Instrument Rating.
Location(s): Rangely

AVT 132 INSTRUMENT PILOT FLIGHT II/2

(45 lab hours)

Prerequisites: AVT 101 or Instructor permission.

Focuses on flight training in preparation of Stage Check 2 and Stage Check 3 for the Instrument Pilot Airplane, Single Engine Airplane FAA Practical Test, and completing all requirements for Instrument Rating.
Location(s): Rangely

AVT 142 AIRCRAFT SYSTEMS A&P /4

(60 LECTURE HOURS)

Exposes students to intermediate structural components, aircraft systems, and power plants to supplement instruction received in flight training. This course goes beyond the basic level of knowledge taught in ground schools and enables the student to better diagnose and troubleshoot on ground and inflight emergencies.
Location(s): Rangely

AVT 145 SIMULATOR LAB I/1(22.5 lab hours)

Prerequisites: AVT 101, Airplane Single or Multi-Engine Land.

Reviews attitude instrument flight for the student who desires instruction in addition to their normal Instrument Training, or for rated Pilots desiring to upgrade or refresh their skills utilizing the Flight Training Device.
Location(s): Rangely

AVT 146 SIMULATOR LAB II/1

(22.5 lab hours)

Prerequisite: AVT 145.

Continues training in the Flight Training Device for those having completed AVT 145 (Simulator Lab I).
Location(s): Rangely

AVT 151 NIFA I/.5 (11.2 lab hours)

The purposes of NIFA are to promote, encourage, and foster safety in aviation. These purposes shall be fulfilled by developing and advancing aviation education, conducting Regional and National Safety And Flight Evaluation Conferences (SAFECON) and promoting, encouraging, and fostering communication and cooperation among students, educators, educational institutions, and the aviation industry. NIFA I will be an introductory class for the familiarization of basic flight and ground events and how it relates to safety.
Location(s): Rangely

AVT 160 Introduction to Unmanned Aircraft Systems (45 Lecture Hours)

Introduces the planning, regulatory, administrative, and operational processes and knowledge required for facilitating an unmanned aircraft systems (UAS). Course includes examination of the technologies associated with small, medium, and large unmanned aeronautical vehicles (UAVs), ground control stations (GCS), remote split operations, line-of-site operations, payloads, limitations, emergency procedures, and future implications as related to UAV/UAS in commercial and government settings. (Class is designed for any student with an interest in UAV/UAS operations.)
Location(s): Rangely

AVT 161 Unmanned Systems Flight and Control (45 Lecture Hours)

Introduces the planning, regulatory, administrative, and operational processes and knowledge required for facilitating an unmanned aircraft systems (UAS). Course includes examination of the technologies associated with

small, medium, and large unmanned aeronautical vehicles (UAVs), ground control stations (GCS), remote split operations, line-of-site operations, payloads, limitations,
Location(s): Rangely

AVT 201 COMMERCIAL PILOT GROUND SCHOOL/2(30 lecture hours)

Prerequisites: AVT 101 or Instructor Permission

Prepares the student for the Commercial Pilot Airplane, Single Engine, Land FAA Knowledge Exam.
Location(s): Rangely

AVT 202 COMMERICAL FLIGHT I/3

(67.5 lab hours)

Prerequisite: AVT 101 with an Instrument Rating or Department Chair permission.

This course is the first of a two-part sequence of flight training in preparation for the Commercial Pilot Certificate, Airplane, Single Engine Land FAA Practical Test. Consists of the cross country aeronautical experience required for the Commercial Certificate.
Location(s): Rangely

AVT 203 COMMERCIAL FLIGHT II/4

(90 lab hours)

Prerequisites: AVT 202 or Department Chair permission.

Continuation of flight training in preparation for the Commercial Pilot, Airplane Single Engine, Land FAA Practical Test, completing requirements for the Commercial Pilot Certificate.
Location(s): Rangely

AVT 205 MOUNTAIN FLYING GROUND/1

(15 lecture hours)

Departmental permission.

Acquaints the student with the unique aspects of flying in mountainous terrain and the additional knowledge and proficiency necessary for safe and efficient operation in mountain and high altitude terrain.
Location(s): Rangely

AVT 206 CREW RESOURCE MANAGEMENT/

1 (15 lecture hours)

Prerequisite: Instrument Rating.

Focuses on classroom instruction coupled with Line Oriented Flight Training (LOFT) in a Flight Training Device. Covers the knowledge, skills, and attitudes necessary to enhance safety and operate effectively as a member of an airplane crew.
Location(s): Rangely

AVT 207 MULTI-ENGINE GROUND SCHOOL/

1(15 lecture hours)

Prerequisite: AVT 101 or Commercial Pilot Certificate for Airplane Single Engine Land.

Prepares the student for the FAA Practical Test for Private or Commercial Pilot, Airplane Multi-Engine Land.
Location(s): Rangely

AVT 208 MULTI-ENGINE FLIGHT/1

(22.5 lab hours)

Prerequisite: Private or Commercial Airplane, Single Engine, Land Pilot Certificate. Focuses on flight training in preparation for the Airplane, Multi-Engine Rating and completing requirements for this Rating.
Location(s): Rangely

AVT 211 FUNDAMENTALS OF INSTRUCTION/2(30 lecture hours)

Prerequisite: Commercial Pilot Certificate with Instrument Rating.

Focuses on preparation for the FAA Fundamentals of Instructing Knowledge Exam.
Location(s): Rangely

AVT 212 FLIGHT INSTRUCTOR GROUND SCHOOL/2 (30 lecture hours)

Prerequisite: AVT 211 or equivalent.

Focuses on preparation for the FAA Flight Instructor Airplane Knowledge Exam.
Location(s): Rangely

AVT 213 FLIGHT INSTRUCTOR FLIGHT/

1 (22.5 lab hours)

Prerequisite: AVT 211 and 212, or equivalent instruction and Department Chair permission.

Focuses on flight training in preparation for the Flight Instructor Airplane, Single-Engine Land FAA Practical Test, completing requirements for the Flight Instructor Certificate.
Location(s): Rangely

AVT 221 INSTRUMENT INSTRUCTOR GROUND SCHOOL/2 (30 lecture hours)
Prerequisite: Flight Instructor Certificate – Airplane Single Engine Land, or consent of Department Chair.

Focuses on preparation for the FAA Instrument Instructor Knowledge Exam.
Location(s): Rangely

AVT 222 INSTRUMENT INSTRUCTOR FLIGHT/1(22.5 lab hours)

Prerequisite: Flight Instructor Certificate, Airplane Single Engine Land.

Focuses on flight training in preparation for the Flight Instructor Instrument Airplane, Single-Engine Land FAA Practical Test, completing requirements for the Instrument Instructor Certificate.
Location(s): Rangely

AVT 223 MULTI-ENGINE INSTRUCTOR FLIGHT/1(22.5 lab hours)

Prerequisite: Flight Instructor – Airplane Single Engine Land Certificate.

Focuses on flight Instruction in preparation for the addition of Multi-Engine Rating to the Flight Instructor Airplane Single Engine Land Certificate.
Location(s): Rangely

AVT 235 PILOT REFRESHER FLIGHT/1

(22.5 lab hours)

Prerequisite: Pilot Certificate.

Provides a refresher to allow a Certificated Pilot to maintain or regain proficiency. May count as a Flight Review when the requirements of CFR Part 61.56 are met.
Location(s): Rangely

AVT 236 TAILWHEEL TRANSITION FLIGHT/

1 (22.5 lab hours)

Prerequisite: Private Pilot Certificate and Instructor permission.

Focuses on flight training in preparation to receive the Tail-Wheel Endorsement from a Certificated Flight Instructor.
Location(s): Rangely

AVT 240 AIRPORT MANAGEMENT/3

(45 lecture hours)

Studies the modern airport and the factors involved in its management. Various management functions of administration, finance, capital finance, operation, maintenance and public relations are analyzed.
Location(s): Rangely

AVT 241 AIRLINE TRANSPORT PILOT FLIGHT/1 (22.5 lab hours)

Prerequisite: 1500 hours pilot time, at least 23 years of age, at least a current third class medical certificate, have passed the ATP Knowledge Exam within the previous two years, and be able to meet the requirements of CFR Part 61, Subpart G.

Focuses on flight instruction in preparation for the FAA Airline Transport Pilot Practical Test.
Location(s): Rangely

AVT 275 SPECIAL TOPICS/0-12

(0-180 lecture hours)

Provides students with a vehicle to pursue in depth exploration of special topics of interest.
Location(s): Rangely

BARBERING

BAR 103 INTRODUCTION TO HAIR AND SCALP/1 (22.5 contact hours)

Introduces various types of hair, scalp treatments and shampoos. Focuses on recognition and treatment of disorders of hair and scalp, product knowledge and proper massage techniques to help control these disorders and cleanse the hair and scalp. Covers terminology dealing with hair structure scalp and hair disorders. Training is provided in a lab or classroom setting.
Location(s): Craig

BAR 107 INTRODUCTION TO SHAVING/HONING/STROPPING/1

(22.5 contact hours)

Introduces the general principles of shaving to include hair texture, grain of the beard and analysis of the skin. Theory is combined with the practical application of proper shaving procedures and cutting strokes used on the face.
Location(s): Craig

BAR 108 INTERMEDIATE SHAVING/ HONING/STROPPING/1 (22.5 contact hours)

Focuses on theory and practical training related to mustache and beard designing and trimming. Practical applications are incorporated in specialized classes or in a supervised salon.
Location(s): Craig

BAR 110 INTRODUCTION TO HAIR COLORING/3

(67.5 contact hours)

Introduces theory pertaining to law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. Focuses on basic techniques and procedures for the application of hair coloring.
Location(s): Craig

BAR 111 INTERMEDIATE HAIR COLORING/2

(45 contact hours)

Emphasizes theory and practical application of color products, formulations of color, and level and shades of color.
Location(s): Craig

BAR 120 INTRODUCTION TO HAIR CUTTING/3

(67.5 contact hours)

Introduces theory relevant to patron protection angles and degree and analysis of hair textures related to hair cutting. Covers proper use and care of hair cutting implements. Introduces basic hair cutting techniques using scissors, razor, clippers, and thinning shears. Training is provided in a classroom or lab setting with students training on mannequins or models.
Location(s): Craig

BAR 121 INTERMEDIATE HAIR CUTTING/3

(67.5 contact hours)

Focuses on theory related to facial shapes and head and body forms to determine the appropriate haircut. Practical application of hair cutting techniques are explored in specialized classes or in a supervised salon setting.
Location(s): Craig

BAR 130 INTRODUCTION TO HAIR STYLING/3

(67.5 contact hours)

Combines theory with the practical application of airforming curling iron, finger waving, soft pressing and hard pressing.
Location(s): Craig

BAR 131 INTERMEDIATE HAIR STYLING/3

(67.5 contact hours)

Focuses on the accepted methods of styling hair, air forming, finger waves, and hair pressing.
Location(s): Craig

BAR 140 INTRODUCTION TO PERMANENT WAVES/CHEMICAL RELAXERS/3

(67.5 contact hours)

Focuses on the analysis of hair and scalp, proper equipment and product knowledge. Covers basic techniques in permanent waving and chemical relaxing. Incorporates training in a classroom or lab setting on mannequins or models.
Location(s): Craig

BAR 141 INTERMEDIATE PERMANENT WAVES/CHEMICAL RELAXERS/3

(67.5 contact hours)

Focuses on theory and practical application of permanent waves and chemical relaxers in specialized classes or supervised salon setting. Students practice different wrapping techniques that are required by trend styles.
Location(s): Craig

BAR 166 INTRODUCTION TO FACIAL MASSAGE/SKIN CARE/1 (22.5 contact hours)

Emphasizes basic understanding of facial massage manipulations and the study of skin in both practical and theory applications. Covers the benefits derived from proper facial massage and a good skin care routine.
Location(s): Craig

BAR 167 INTERMEDIATE FACIAL MASSAGE & SKIN CARE/1 (22.5 contact hours)

Focuses on practical application dealing with anatomy, skin disorders, skin types and facial shapes. Students help patrons select proper skin care treatments.
Location(s): Craig

BAR 203 ADVANCED HAIR AND SCALP/1

(22.5 contact hours)

Focuses on advanced theory and practical training of hair, scalp treatments and shampooing in a supervised salon setting. Advanced techniques prepare the student for employment. Covers student preparation for the State Board Licensing Examination on theory and practical procedures.
Location(s): Craig

BAR 207 ADVANCED SHAVING/ HONING/STROPPING/1

(22.5 contact hours)

Focuses on advanced training in shaving, honing and stropping. Practical and theory application is completed in specialized classes or supervised clinical training. Student will be prepared for State Board license exam.
Location(s): Craig

BAR 211 ADVANCED HAIR COLORING/3

(67.5 contact hours)

Provides continued instruction in advanced practical techniques for hair coloring with emphasis on recognition of color problems and color correction procedures. Covers advanced techniques and product knowledge to prepare the student for employment. Provides instruction for the State Board Licensing Examination pertaining to hair coloring.
Location(s): Craig

BAR 220 ADVANCED HAIR CUTTING/3

(67.5 contact hours)

Provides theory and advanced techniques in all phases of hair cutting to ready the student for employment. Covers student preparation for State Board licensing examination on theory and practical procedures. Training is a combination of supervised work and specialized classes.
Location(s): Craig

BAR 231 ADVANCED HAIR STYLING/3

(67.5 contact hours)

Focuses on theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon (clinical) work and specialized classes. Includes student preparation for the State Board Licensing Examination relating to hairstyling.

Location(s): Craig

BAR 241 ADVANCED PERMANENT WAVES & CHEMICAL RELAXERS/2 (45 contact hours)

Focuses on advanced techniques to prepare the student for employment and examines changes in current industry standards. Provides instruction in specialized classes or a supervised salon setting. Covers student preparation for the State Board Licensing Examination pertaining to permanent waves and relaxers.

BAR 266 ADVANCED FACIAL MASSAGE & SKIN CARE/1

(22.5 contact hours)

Emphasizes anatomy, skin disorders, skin types and facial shapes. Students guide patrons on selection of proper skin care treatments. Covers student preparation for State Board licensing examination on theory and practical procedures.

BIOLOGY

BIO 103 Principles of Animal Bio/3 (45 lecture hours)

Introduces the study of animals and their interactions with the environment. This course includes principles of evolution, taxonomy, phylogeny, morphology, behavior and ecology. It includes the study of animal diversity, emphasizing the characteristics and classifications of major phyla. The loss of biodiversity and conservation will also be covered. (SC2)

BIO 104 BIOLOGY: A HUMAN APPROACH/4

(45 lecture hours; 30 lab hours)

Develops a basic knowledge of the structure and function of the human body by studying the body`s structure as a series of interrelated systems. Includes cardiovascular, respiratory, digestive, lymphatic, musculoskeletal, nervous, endocrine, reproductive and urinary systems, and genetics. Emphasizes disease prevention and wellness. This course includes laboratory experience. This course is approved as part of the Colorado Statewide Guaranteed transfer curriculum: *(SC1)*

Location(s): Rangely

BIO 105 SCIENCE OF BIOLOGY/4

(45 lecture hours; 30 lab hours)

Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Explores biology as a science - a process of gaining new knowledge - as is the impact of biological science on society. Includes laboratory experiences. Designed for non-science majors. *(SC1)*

Location(s): Online

BIO 106 BASIC ANATOMY AND PHYSIOLOGY/4

(60 lecture hours)

Focuses on basic knowledge of body structures and function, and provides a foundation for understanding deviations from normal and disease conditions. This course is designed for individuals interested in health care and is directly applicable to the Practical Nursing Program, Paramedic Program and the Medical Office Technology program.

Location(s): Online; Concurrent

BIO 111 GENERAL COLLEGE BIOLOGY I WITH LAB/5 (60 lecture hours; 30 lab hours)

Examines the fundamental molecular, cellular and genetic principles characterizing plants and animals. Includes cell structure and function, and the metabolic processes of respiration, and photosynthesis, as well as cell reproduction and basic concepts of heredity. This course includes laboratory experience.*(SC1)*

Location(s): Craig; Rangely; Online; Concurrent

BIO 112 GENERAL COLLEGE BIOLOGY II WITH LAB/5 (60 lecture hours; 30 lab hours) Prerequisite: Successful completion of BIO 111(Grade C or better) or instructor permission.

Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience.(SC1)

Location(s): Craig; Online

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BIO 116 Introduction to Human Disease/3 (45 lecture hours)

Focused analysis of the causes and mechanics of human illness and death will be presented for each of the major human body systems. Selected diseases will be studied in greater detail including etiology, pathogenesis, epidemiology, sociology, and therapy.(SC2).

Location(s): Rangely

BIO 120 Introduction to Natural History/3 (45 lecture hours)

Studies the natural forces of change and environmental evolution in relation to current global and local ecology. Geology, weather, soil, ecological principles, and life histories of representative flora and fauna are included.

BIO 201 HUMAN ANATOMY & PHYSIOLOGY I WITH LAB/4 (45 lecture hours; 30 lab hours)

Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus

integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. (SC1)
Location(s): Craig; Rangely; Online

BIO 202 Human Anatomy and Physiology II with Lab/4 (45 lecture hours; 30 lab hours) Prerequisite: BIO 201 or equivalent, or instructor permission.

Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is the second semester of a two-semester sequence. (SC1)
Location(s): Craig; Rangely; Online

BIO 204 MICROBIOLOGY/4

(45 lecture hours; 30 lab hours)

Designed for health science majors. Examines microorganisms with an emphasis on their structure, development, physiology, classification, and identification. The laboratory experience includes culturing, identifying, and controlling microorganisms with an emphasis on their role in infectious disease.*(SC1)*
Location(s): Craig; Rangely; Online

BIO 216 HUMAN PATHOPHYSIOLOGY/4

(60 lecture hours)

Prerequisites: BIO 201 and 202 or 201 and concurrent registration in 202 or instructor permission

Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.
Location(s): Craig; Online

BIO 222 GENERAL COLLEGE ECOLOGY/4

(45 lecture hours; 30 lab hours)

Prerequisite: BIO 111 or equivalent, or instructor permission.

Studies the interrelationships between organisms and their environment. Applies evolutionary theory to the study of composition and function of aquatic and terrestrial ecosystems, population biology, pollution, and the effects of man on ecosystems. Includes laboratory and field experiences.

BIO 275 SPECIAL TOPIC/ 0-12

(up to 180 lecture hours)

Covers a specific topic within Biology, as determined by the instructor. Reflects the special expertise of the faculty and/or the special needs of the students.
Location(s): Rangely

BUSINESS

BUS 115 INTRODUCTION TO BUSINESS/3

(45 lecture hours)

Focuses on the operation of the American business system. Covers fundamentals of the economy, careers and opportunities, marketing, management, production, governmental regulations, tools of business and social responsibilities.
Location(s): Craig; Online; Concurrent

BUS 182 INTERNSHIP /3

Provides continued instructions and work experience to the student. Minimum of 7.5 hours per week at approved training station supervised by credentialed coordinator.

Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business.
Location(s): Craig

BUS 216 LEGAL ENVIRONMENT OF BUSINESS/3

(45 lecture hours)

Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is devoted to economic regulation, social regulation, regulation and laws impacting labor-management issues, and environmental concerns. Students develop an understanding of the role of law in social, political, and economic change.

Location(s): Craig; Online; Concurrent

BUS 217 BUSINESS COMMUNICATION AND REPORT WRITING/3

(45 lecture hours)

Emphasizes effective business writing and covers letters, memoranda, reports, application letters, and resumes. Includes the fundamentals of business communication and an introduction to international communication.

Location(s): Craig; Online

BUS 226 BUSINESS STATISTICS/3

(45 lecture hours)

Prerequisite: MAT 055 or instructor permission. Focuses on statistical study, descriptive statistics, probability, and the binominal distribution, index numbers, time series, decision theory, confidence intervals, linear regression, and correlation. Intended for the business major.

Location(s): Online

CHEMISTRY

CHE 101 Introduction to Chemistry I with Lab/ 5 (45 lecture hours; 60 lab hours) Co-requisite: MAT 050 or equivalent test score. Includes the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base, gas laws, and condensed states. Laboratory experiments demonstrate the above concepts qualitatively and quantitatively. Designed for non-science majors, students in occupational and health programs, or students with no chemistry background. (SC1)

Location(s): Rangely; Online; Concurrent

CHE 102 Introduction to Chemistry II with Lab/5 (45 lecture hours; 60 lab hours) Prerequisite: CHE 101 or instructor permission.

Focuses on introductory organic and biochemistry (sequel to Introduction to Chemistry I). This course includes the study of hybridization of atomic orbitals for carbon, nomenclature of both organic and biochemical compounds, physical and chemical properties of various functional groups of organic chemistry, and physical and chemical properties of biochemical compounds along with their biochemical pathways. Laboratory experiments are included.(SC1)

Location(s): Rangely; Online

CHE 107 FUNDAMENTALS OF GENERAL CHEMISTRY W/LAB/5

(45 Lecture hours;60 Lab hours)

Focuses on the study of measurement, states of matter, atomic/molecular theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base chemistry, gas laws, condensed states of matter, oxidation-reduction reactions periodicity, and chemical equilibrium. Designed for students with no previous chemistry background and need one semester of general chemistry. Includes laboratory experiments.

CHE 109 GENERAL, ORGANIC AND BIOCHEMISTRY/4

(45 lecture hours; 30 lab hours)

Focuses on fundamentals of inorganic, organic and biochemistry primarily for students in health science, non-science majors and/or students in the occupational and health related career areas. Includes the study of measurement, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base chemistry, gas laws, condensed states of matter and nuclear chemistry, nomenclature of organic compounds, properties of different functional groups, nomenclature of various biological compounds, their properties and biological pathways.

CHE 111 General College Chemistry I with Lab/5 (45 lecture hours; 60 lab hours) Co-requisite: College algebra or permission of instructor.

Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and

equations, stoichiometry. This course covers the development of atomic theory culminating in the use of quantum numbers to determine electron configurations of atoms, and the relationship of electron configuration to chemical bond theory. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments.(SC1)
Location(s): Rangely; Craig; Online

CHE 112 General College Chemistry II with Lab/5 (45 lecture hours; 60 lab hours) Prerequisite: CHE 111, MAT 121.

Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques.(SC1)
Location(s): Craig; Rangely; Online

COLLEGE COMPOSITION & READING

CCR courses are listed under **ENGLISH**

COMMUNICATIONS

COM 100 WORKPLACE COMMUNICATIONS/ 1 (15 lecture hours)

Covers topics that teach students how to communicate effectively in the workplace. Includes listening, speaking, reading, and writing, and emphasizes the importance of these four modes of communication in the workplace.
Location(s): Craig

COM 105 CAREER COMMUNICATIONS/

3 (45 lecture hours)

Develops skills needed in obtaining and keeping a job. Includes job searching, applications, resumes, interviews, and the dynamics of customer, peer, and managerial relationships. Emphasizes speaking, writing, listening, critical reading skills, and vocabulary development essential to the employment world.

COM 115 PUBLIC SPEAKING/3

(45 lecture hours)

Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.
Location(s): Rangely; Craig; Online; Concurrent

COM 125 INTERPERSONAL COMMUNICATION/3 (45 lecture hours)

Examines the communication involved in interpersonal relationships occurring in family, social and career situations. Relevant concepts include self-concept, perception, listening, nonverbal communication, and conflict.
Location(s): Online

COM 220 INTERCULTURAL COMMUNICATION/3 (45 lecture hours)

Provides a global view of communication across cultures and brings an awareness of how perception, language, race, verbal, and nonverbal communication impact our behaviors, messages, and interactions. Emphasis is on developing effective and ethical cross-cultural communication skills, while also building an appreciation for different cultures. (SS3)
Location(s): Online

COMPUTER ASSISTED DRAFTING

CAD 101 COMPUTER AIDED DRAFTING I/3

(45 lecture hours)

Focuses on basic computer aided drafting skills using the latest release of CAD software. Includes file management, Cartesian coordinate system, drawing set-ups, drawing aids, layer usage, drawing geometric shapes, editing objects, array, text applications, basic dimensioning, and Help access.
Location(s): Craig; Online

COMPUTER INFORMATION SYSTEMS

CIS 118 INTRODUCTION TO PC APPLICATIONS/3 (45 lecture hours)

Introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, databases, and presentation graphics. Includes the use of a web browser to

access the Internet.
Location(s): Online; Concurrent

CIS 155 PC SPREADSHEET CONCEPTS/3

(45 lecture hours)

Exposes the student to a wide range of uses of the electronic spreadsheet with special emphasis on using it as a business tool. Includes fundamentals and terms, creating and saving workbooks, entering and using formulas, formatting, printing, multiple-page workbooks, creating charts, entering and using functions, managing lists, and simple macros.
Location(s): Online

COMPUTER SCIENCE

CSC 160 COMPUTER SCIENCE I (LANGUAGE)/4

(60 lecture hours)

Introduces students to the discipline of computer science and programming. Algorithm development, data representation, logical expressions, sub-programs and input/output operations using a high-level programming language are covered. Intensive lab work outside of class time is required.
Location(s): Online

COSMETOLOGY

COS 103 SHAMPOO/RINSES/CONDITIONERS I/1
(15 lecture hours)
Introduces various types of scalp treatments and shampoos. Enables student to recognize and treat disorders of hair and scalp. Covers product knowledge and proper massage techniques to help control disorders and to cleanse the hair and scalp. Includes terminology dealing with hair structure, scalp, and hair disorders. Provides training in a lab or classroom setting.
Location(s): Craig

COS 110 INTRODUCTION TO HAIR COLORING/2
(15 lecture hours;22.5 lab hrs)
Provides theory pertaining to the law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. Covers basic techniques and procedures for the application of hair coloring.
Location(s): Craig

COS 111 INTERMEDIATE I: HAIR COLORING/2
(45 lab hours)
Focuses on theory and practical application of color products, formulations of color, level and shades of color. Examines techniques in a specialized class or in a supervised salon setting.
Location(s): Craig

COS 120 INTRODUCTION TO HAIR CUTTING/2
(15 lecture hours;22.5 lab hours)
Introduction to the theory relevant to patron protection, angles, elevations, and the analysis of hair textures as related to hair cutting. Covers the proper use and care of hair cutting implements. Focuses on basic hair cutting techniques using all cutting implements. Disinfection, sanitation procedures as they relate to haircutting.
Location(s): Craig

COS 121 INTERMEDIATE I: HAIRCUTTING/2
(45 lab hours)
Focuses on theory related facial shapes, head and body forms to determine the clients appropriate haircut. Incorporates practical applications of hair cutting techniques in specialized classes or in the supervised salon (clinical setting).
Location(s): Craig

COS 130 INTRODUCTION TO HAIR STYLING/2
(15 lecture hours;22.5 lab hours)
Combines theory with the practical application of roller placement, shaping, pin curls, finger waves, airforming iron curling, soft pressing and hard pressing.
Location(s): Craig

COS 131 INTERMEDIATE I: HAIR STYLING/2
(45 lab hours)
Focuses on the accepted methods of styling hair, air forming roller sets, finger waves pin curls braiding and hair pressing.
Location(s): Craig

COS 140 INTRODUCTION TO CHEMICAL TEXTURE/1

(15 lecture hours)
Introduces a combination of theory and practice focusing on the analysis of hair and scalp, proper equipment and product knowledge. Includes basic techniques in permanent waving and chemical relaxing. Provides training in a classroom or lab setting on mannequins or live models.
Location(s): Craig

COS 141 INTERMEDIATE I: CHEMICAL TEXTURE/1
(22.5 lab hours)
Emphasizes theory and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Enables the student to practice different wrapping techniques required by trend styles.
Location(s): Craig

COS 150 LAWS, RULES AND REGULATIONS/1
(15 lecture hours)
Provides instruction on the laws, rules and regulations and how they govern the cosmetology and barber industry. This affects the student, licensed individual, salons and school owners.
Location(s): Craig

COS 160 INTRODUCTION TO DISINFECTION, SANITATION & SAFETY/

2 (15 lecture hours;22.5 lab hours)

Introduces the various methods of disinfection, sanitation, and safety as used in the cosmetology industry. Includes classroom study of bacteriology and the terminology dealing with cosmetology.
Location(s): Craig

COS 161 INTERMEDIATE I: DISINFECTION, SANITATION & SAFETY/1
(22.5 lab hours)
Focuses on the theory and daily practice of proper methods of disinfection, sanitation and safety procedures as related to all phases of cosmetology. Covers terminology and training of disinfection, sanitation and safety procedures. Also includes customer service in a supervised salon (clinical) setting or specialized class
Location(s): Craig

COS 203 SHAMPOOS/RINSES/ CONDITIONERS II/1
(22.5 lab hours)
Provides theory and practical training in shampoos, rinses and conditioners. Examines advanced techniques to prepare the student for employment. Includes preparation for the State Board Licensing Examination in shampoos, rinses and conditioners.
Location(s): Craig

COS 210 INTERMEDIATE II: HAIR COLORING/2
(45 lab hours)
Provides continued instruction in the theory and practical application of color products, formulations of color, level and shades of color. Enables students to practice techniques in a specialized class or in a supervised salon setting.
Location(s): Craig

COS 211 ADVANCED HAIR COLORING/2
(45 lab hours)
Provides continued instruction on advanced theory and practical techniques in hair coloring. Focuses on the recognition of color problems and color correction procedures. Covers advanced techniques and product knowledge to prepare the student for employment. Prepares the student for the State Board Licensing Examination pertaining to hair coloring.
Location(s): Craig

COS 220 INTERMEDIATE II: HAIRCUTTING/2
(45 lab hours)
Provides continued instruction in the theory related to facial shapes, head and body forms to determine the client's appropriate haircut. Incorporates practical applications of haircutting techniques.
Location(s): Craig

COS 221 ADVANCED HAIR CUTTING/2
(45 lab hours)
Focuses on advanced cutting techniques using all the cutting tools. Emphasizes current fashion trends. Includes student preparation for the State Licensure examination.
Location(s): Craig

COS 230 INTERMEDIATE II: HAIR STYLING/2
(45 lab hours)

Provides continued instruction on accepted methods of styling hair, air forming, roll set, finger waves and hair pressing. Examines techniques in specialized classes or in a supervised salon setting.
Location(s): Craig

COS 231 ADVANCED HAIR STYLING/1
(22.5 lab hours)
Focuses on theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon (clinical) work and specialized classes. Includes student preparation for the State Board Licensing Examination relating to hairstyling.
Location(s): Craig

COS 240 INTERMEDIATE II: CHEMICAL TEXTURE/1
(22.5 lab hours)
Provides continued instruction in the theory and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Enables students to practice different wrapping techniques required by trend styles.
Location(s): Craig

COS 241 ADVANCED CHEMICAL TEXTURE/1
(22.5 lab hours)
Focuses on advanced techniques to prepare the student for employment and the changes in current industry standards. Instruction is provided in specialized classes or supervised salon (clinical) setting. Includes student preparation for the State Board Licensing Examination pertaining to permanent waves and chemical relaxers.
Location(s): Craig

COS 250 MANAGEMENT, ETHICS, INTERPERSONAL SKILLS & SALESMANSHIP/1
(15 lecture hours)
Emphasizes the importance of salon management and the knowledge and skills necessary to build a successful business. Focuses on the importance of interpersonal skills and basic techniques in salesmanship and customer services. Integrates job readiness skills and professional ethics.
Location(s): Craig

COS 260 INTERMEDIATE II: DISINFECTION, SANITATION & SAFETY/2
(15 lecture hours;22.5 lab hours)
Provides continued study of theory and practice of proper methods of sterilization, disinfection, sanitation and safety procedures as related to all phases of the industry. Covers terminology and training of disinfection, sanitation and safety procedures. The individual responsibility to provide a safe work environment is practiced.
Location(s): Craig

COS 261 ADVANCED DISINFECTION, SANITATION & SAFETY/1
(22.5 lab hours)
Provides advanced training on decontamination and safety practices in a supervised salon and/or classroom setting. Examines advanced techniques that prepare the student for employment. Includes student preparation for the State Board Licensing Examination in decontamination and safety for all aspects of the industry. Study of OSHA requirements for schools and salon are done in a theory or practical setting.
Location(s): Craig

COS 262 ADVANCED II: DISINFECTION, SANITATION & SAFETY/3
(30 hours lecture;22.5 hours lab)
This course is the extra hours/credits required for the hairstylist program, per State Board of Colorado Barber/Cosmetology Board.

Provides advanced training on decontamination and safety practices in a supervised salon and/or classroom setting. Examines advanced techniques that prepare the student for employment. Includes student preparation for the State Board Licensing Examination in decontamination and safety for all aspects of the industry. Study of OSHA requirements for schools and salon are done in a theory or practical setting.
Location(s): Craig

COS 275 SPECIAL TOPICS/.5-6
(contact hours vary from 7.5-90 between lab/lecture)
Provides students with a vehicle to pursue in depth exploration of special topics of interest.
Location(s): Craig

CRIMINAL JUSTICE

CRJ 110 INTRO TO CRIMINAL JUSTICE/3

(45 lecture hours)

Introduces students to the basic components of the criminal justice system in the United States. Concepts of crime, crime data, victimization, perspectives and views of crime, theory, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined. *(SS3)*
Location(s): Online

DENTAL HYGIENE

DEH 101 PRE-CLINICAL DENTAL HYGIENE LECTURE/2(30 lecture hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Explores basic dental hygiene theory and development of basic skills. Focuses on the application of diagnostic, preventative and therapeutic procedures and includes an introduction to dentistry and dental hygiene, dental and medical terminology, infection control, the removal of tooth deposits, patient medical and dental histories, preventive instruction and treatment planning.
Location(s): Rangely

DEH 102 PRE-CLINICAL DENTAL

HYGIENE CARE/3(90 lab hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on clinical experiences in basic dental hygiene procedures and techniques including basic instrumentation, infection control, and patient assessment skills. Students participate in a variety of clinical learning experiences.
Location(s): Rangely

DEH 103 DENTAL ANATOMY AND HISTOLOGY/3

(30 lecture hours; 30 lab hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on a study of the anatomical and histological features of the teeth and other oral structures of the oral cavity. Includes terminology, anatomical landmarks, and tooth identification. Introduces histology, the embryology of the face and oral and nasal cavities, development of the teeth, and the histological features of the various components of the teeth and surrounding structures.
Location(s): Rangely

DEH 104 DENTAL RADIOLOGY/3

(30 lecture hours; 30 lab hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Introduces principles of x-radiation production and safety factors; application and theory of properly exposing, processing, mounting and evaluating radiographs; identification of normal anatomic landmarks and pathologic conditions. Focuses on utilization of the laboratory in performing procedures necessary to produce quality radiographs.
Location(s): Rangely

DEH 111 DENTAL & MEDICAL EMERGENCIES/2(30 lecture hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Introduces the management of emergency situations in the dental office setting. Emphasizes reduction of risk for emergencies, identification and management of anxiety, and stress recognition protocol. Provides practical skills applicable to dental hygienists and the scope of responsibility for medical emergency management as dictated by state dental practice law. Covers the basic categories of emergencies, causes and management. Includes content and use of emergency kits and oxygen support systems.
Location(s): Rangely

DEH 112 DENTAL HYGIENE CLINIC LECTURE I/2(30 lecture hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on prevention through patient education. Includes dental hygiene clinical procedures, such as sealants, polishing, fluoride treatments, and treatment planning as well as instrumentation instruction.

Location(s): Rangely

DEH 116 PREVENTIVE DENTISTRY AND SPECIAL NEEDS PATIENTS/2

(30 lecture hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on application of the basic sciences in maintaining healthy oral tissues for all patient populations. Emphasizes plaque and plaque-related diseases and the basic philosophy involved in controlling and/or preventing disease. Addresses the role of the dental hygienist in etiology, epidemiology of disease, primary preventive efforts, oral health education, nutrition and dietary measures, and preventive agents.

Location(s): Rangely

DEH 122 PERIODONTICS I/2

(30 lecture hours)

Prerequisite: First-semester DEH course work.

Introduces the principles of periodontics. Focuses on recognition of the tissues in health and disease, macro and microanatomy of the periodontium, and histopathology of periodontal diseases and other related gingival conditions. Provides the theory and discussion of periodontal assessment, etiology, epidemiology, inflammatory process/immune response, and the AAP classification system.

Location(s): Rangely

DEH 123 HEAD AND NECK ANATOMY/

1(15 lecture hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on the study of head and neck anatomy with emphasis on the muscles of mastication, the lymphatics, the TMJ, the nerve and vascular supply, and the oral cavity.

Location(s): Rangely

DEH 126 DENTAL MATERIALS/2

(15 lecture hours; 30 lab hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides the dental hygiene student with a sound knowledge of the science of dental materials. Covers didactic and laboratory experiences and the physical properties, basic chemistry, and the clinical applications of the materials used in the practice of dentistry.

Location(s): Rangely

DEH 132 APPLIED PHARMACOLOGY/2

(30 lecture hours) Prerequisite: Enrollment in the Dental Hygiene Program.

Covers general pharmacology and reviews drugs that may influence the management of dental hygiene patients. Enables the student to develop sufficient knowledge of pharmacology to permit safe and effective medical evaluation of patients for dental hygiene treatment.

Location(s): Rangely

DEH 133 LOCAL ANESTHESIA/2

(15 lecture hours; 30 lab hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides a working knowledge of the theory and practice of local anesthesia as applied to the practice of dentistry/dental hygiene. Emphasizes mastery of the armamentarium and techniques of regional anesthesia. Covers the knowledge and skills necessary to administer local anesthetics proficiently and safely.

Location(s): Rangely

DEH 138 NITROUS OXIDE/OXYGEN SEDATION/1(7.5 lecture hours; 15 lab hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides a working knowledge of the latest equipment and methods of nitrous oxide/oxygen sedation administration in the dental office.

DEH 170 CLINICAL PRACTICE OF DENTAL HYGIENE I/3(90 lab hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides clinical experience in patient skills assessment, instrumentation and additional preventative and prophylactic clinical procedures.

Location(s): Rangely

DEH 171 CLINICAL PRACTICE OF DENTAL HYGIENE 1-A/3(90 lab hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Continues patient care sessions for the performance of traditional dental hygiene treatment. Enables the student to provide treatment to periodontally involved patients utilizing advanced instrumentation and power scaling.

Location(s): Rangely

DEH 175 Special Topics – See DEH 241

DEH 201 CLINIC II LECTURE/2

(30 lecture hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Continues development of clinical skills with an introduction to Gracey curets, developing treatment plans for the periodontal patient and establishing maintenance schedule for oral health. Addresses special techniques for calculus detection. Allows student to demonstrate and practice through lab activities. Focuses on the patient with special needs. Student has sophomore standing in Dental Hygiene Program.

Location(s): Rangely

DEH 203 PRACTICE MANAGEMENT/1

(15 lecture hours)

Involves the student in research, presentation, and discussion regarding legal and ethical considerations of patient care, and the roles, relationships, and requirements of the dental hygiene professional. Covers the organization and management of dental hygiene practice. Addresses state dental practice acts, licensure and credentialing, and various aspects of employment.

Location(s): Rangely

DEH 204 COMMUNITY DENTAL HEALTH I/2(30 lecture hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Course provides instruction in the concepts, methods and issues of dental public health. Emphasis is placed on evidence-based criteria for effective promotion and prevention of dental disease in the public health setting. Concepts of dental health education and program planning in the community setting are reinforced through case based materials, including methods of assessment, planning, implementation and evaluation of effectiveness. Course activities will reinforce skills in speaking and writing effectively in preparation for the subsequent community dental health field experience course.

Location(s): Rangely

DEH 213 GENERAL AND ORAL PATHOLOGY/3(45 lecture hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on the fundamentals of general pathology and the disease process. Covers oral pathology with emphasis on recognition and identification of pathologic conditions that most frequently occur around the oral cavity. Helps students identify appropriate referral mechanisms to render a definitive diagnosis.

Location(s): Rangely

DEH 225 COMMUNITY DENTAL HEALTH II: FIELD EXPERIENCE/1(30 lab hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides practical application of community dental health theory and opportunities to conduct needs assessments on a variety of populations. Emphasizes meeting the educational needs of specific populations through program planning, implementation and evaluation. Incorporates supervised field

experiences in low-income, school and other public facilities as well as private health and education oriented organizations.
Location(s): Rangely

DEH 241 Immunological Aspects of Periodontal Disease/1(15 lecture hours)

Prerequisite: First-semester DEH course work.

Includes a brief review of the human inflammatory & immune responses. Particular emphasis is placed on the interaction between periodontal pathogens and host response, and the effects of systemic conditions on periodontal health are explored, as well as the effects of periodontal disease on systemic health.
Location(s): Rangely

DEH 242 PERIODONTICS II/2

(30 lecture hours)

Prerequisite: Second -semester DEH course work.

Continues to explore theoretical/clinical preparations with emphasis on dental hygiene process of care, treatment planning, non-surgical treatment, evaluation of treatment, and maintenance needs of the periodontal patient. Develops research and decision making skills with use of library and Internet resources relating to risk factors, etiologic agents, and treatment modalities. Includes comprehensive periodontal assessment, supplemental diagnostics, periodontal pharmacology, and evidence based treatment planning.
Location(s): Rangely

DEH 268 CLINICAL THEORY OF DENTAL HYGIENE II/2(30 lecture hours)

Provides the didactic theory for clinical practice of dental hygiene skills at the beginning of the second year of dental hygiene curriculum. Builds on clinic theory from first year curriculum to provide the knowledge base needed for treatment of patients with more advanced periodontal disease and medical/health factors. Focuses on: periodontal charting and documentation, interpretation of periodontal factors on radiographs, use of treatment planning in the dental hygiene process of care, legal parameters of record keeping and informed consent, use of oral photography, application of sealants, treatment of dental hypersensitivity, application of chemotherapeutics and professional oral irrigation, application of ergonomics in dentistry, clinical dental hygiene treatment considerations for patients with history of cardiac complications and diabetes.
Location(s): Rangely

DEH 270 CLINICAL PRACTICE OF DENTAL HYGIENE II/6(180 lab hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Covers patient care sessions for the performance of traditional dental hygiene treatment. Continues and expands periodontal patient care and special patient care sessions. Focuses on clinical competence in margination and polishing of restorations, nutrition counseling, oral irrigation, chemotherapeutics and OSHA compliance.
Location(s): Rangely

DEH 271 CLINICAL PRACTICE OF DENTAL HYGIENE III/6(180 lab hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Continues patient care session with emphasis on attaining a level of competency and efficiency for successful performance in clinical board exams and private practice. Focuses on clinical skill development in tobacco cessation, product selection, patient communications, curettage and special topics developed patient treatments. Provides elective extra-mural clinical sites for additional practice.
Location(s): Rangely

DEH 285 CLINICAL THEORY OF DENTAL HYGIENE III/1(15 lecture hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Serves as the capstone course of the final semester of a two-year curriculum. Prepares the student for two major goals: basic competence for transition to provision of dental hygiene services in private practice; and the ability to successfully pass both written National Boards examinations and regional dental hygiene clinical examinations. Emphasizes the application of case based learning. Major topics include: cosmetic bleaching, air powered polishing devices, application of the re-evaluation process in treatment planning for

periodontally involved cases, preparation for the CRDTS regional clinical exam process, application of an effective tobacco cessation process, technique and process for gingival curettage, technique and process for amalgam polishing and margination, care of cosmetic dental restorations, and maintenance of implants.

Location(s): Rangely

DIESEL POWER MECHANICS

DPM 100 INTRO TO DIESEL MECHANICS/2

(75 contact hours)

Focuses on the student identifying and describing the many different types of diesel powered vehicles. Emphasis is placed on being able to research information in maintenance manuals and parts manuals along with demonstration of their abilities in properly identifying and select mechanical fasteners for a particular application. Specific coverage of precision fasteners, fuels, fluids as they relate to the diesel industry.

Location(s): Craig

DPM 103 DIESEL ENGINES I/4

(150 contact hours)

Covers the theory and operation of diesel engines with emphasis on cylinder heads and valve trains diagnosis and repair. Also introduces the cooling system's importance with diagnosis and repair. Enables students to diagnose, test, and repair cylinder heads and cooling systems on diesel engines.

DPM 105 HEAVY DUTY POWERTRAINS I/3

(112.5 contact hours)

Focuses on drive axles and universal joints of heavy duty trucks and equipment. Students will

cover operations, tests, removal, inspections, and repair of heavy duty drivelines, axles, and differentials.

Location(s): Craig

DPM 106 DIESEL FUEL SYSTEMS/3

(112.5 contact hours)

Covers the theory of operation and repair of fuel injection systems. Provides laboratory assignments that involve disassembly, assembly, and service procedures on fuel system components.

DPM 111 CAB & ELECTRICAL PMI I/1.5

(112.5 contact hours)

Enables the student to perform preventive maintenance on heavy equipment and trucks, and complete appropriate maintenance records. Addresses the process of diagnostics and troubleshooting. Focuses on the importance of preventive maintenance.

DPM 121 HYDRAULIC SYSTEMS I/3

(112.5contact hours)

Offers instruction on the basic fundamentals of hydraulics and their applications. Diagnosis, service, and testing along with safety are stressed within this course.

DPM 122 HYDRAULIC SYSTEMS II/3

(112.5 contact hours)

Offers instruction on the repair, replacement, measuring, and subsequent adjustments of components. Identification and repairing pumps, control valves, and cylinders is stressed within this course.

DPM 123 CUMMINS B SERIES/2

(75 contact hours)

Covers the history, developments, theory, operation and service procedures of a Cummins B Series diesel engines.

DPM 124 POWERSTROKE ENGINES/2

(75 contact hours)

Covers the history, development, theory, operation and service procedures of Powerstroke Diesel Engines used in Ford Trucks.

DPM 125 DURAMAX ENGINES/2

(75 contact hours)

Covers the history, development, theory, operation and service procedures for Duramax Diesel Engines used in General Motors Trucks.

DPM 140 H/D STEERING & SUSPENSION I/3 (112.5 contact hours)

Emphasizes lecture and related lab in the diagnosis and service of Heavy Duty mechanical and air suspension systems, wheels/tires and pressure management systems.
Location(s): Craig

DPM 203 DIESEL ENGINES II/4

(150 contact hours)

Covers the theory of operation and repair of diesel engines with emphasis on the cylinder block in big bore engines. Enables students to disassemble, inspect, and reassemble engines.

DPM 205 HEAVY DUTY POWERTRAINS II/3

(112.5 contact hours)

Teaches students to diagnosis clutch and transmission problems. Focuses on clutch, transmission, additional assembly operation, testing, and repairing. Students will learn removal, rebuilding, inspection, repairing, and replacement of all components. Covers electrical systems on transmissions and related assemblies.
Location(s): Craig

DPM 206 HEAVY DUTY BRAKES I/3

(112.5 contact hours)

Focuses on the various braking systems incorporated in heavy-duty trucks and heavy equipment. Includes a study of hydraulic brake systems and covers the diagnosis and service of the mechanical and electrical components.
Location(s): Craig

DPM 207 HEAVY DUTY BRAKES II/3

(112.5 contact hours)

Teaches instruction in general service and maintenance procedures for the heavy-duty truck air brake system and its related pneumatic components. Operational checks, performance testing, and verifying system compliance with regulations (FMVSS No. 121) will be discussed.

DPM 210 DIESEL AIR INDUCTION/1.5

(37.5 contact hours)

Covers the theory of operation and repair of turbochargers, superchargers, intercoolers, and various induction systems. Examines factors regulating engine performance failure, and procedures for reclaiming engine performance.

DPM 211 DRIVETRAIN & STEERING PMI/2

(75 contact hours)

Focuses on preventive maintenance of heavy duty truck & equipment drivetrains and steering systems including recording of critical information for the customer. Enables students

to grasp the importance of preventive maintenance while gaining an understanding of component operation.

DPM 264 H/D HEATING & VENTILATION/2

(75 contact hours)

Emphasizes lecture and related laboratory experiences in the diagnosis, service, and repair of equipment in heating and ventilation systems.

DPM 280 INTERNSHIP/1

Provides students with the opportunity to supplement coursework with practical work experience related to their education program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

EARLY CHILDHOOD EDUCATION

ECE 100 PRE-LICENSING TRAINING FOR FAMILY CHILD CARE PROVIDERS/1

(15 lecture hours)

Provides the educational training necessary to meet the hours and categories of training required by the Colorado Department of Human Services to open a licensed child care facility for children ages 2-12, with no more than two children under the age of two. Upon completion of 15 hours of training, in the areas listed below,

the student will have met the academic training requirements of the Colorado Department of Human Services, needed to open a licensed child care facility for children ages 2-12, with no more than two children under the age of two.
Location(s): Virtual

ECE 101 INTRODUCTION TO EARLY CHILDHOOD EDUCATION/3(45 lecture hours)

Provides an introduction to Early Childhood Education. Includes the eight key areas of professional knowledge: Child Growth and Development; Health, Nutrition and Safety; Developmentally Appropriate Practices; Guidance; Family and Community Relationships; Diversity; Professionalism; Administration and Supervision. Focuses on ages birth through age eight.
Location(s): Online; Virtual

ECE 102 INTRODUCTION TO EARLY CHILDHOOD LAB TECHNIQUES/3

(15 lecture hours;45 lab hours)

Prerequisite or Co-requisite: ECE 101.

Focuses on a classroom seminar and placement in a child care setting. The supervised placement provides the student with the opportunity to observe children, to practice appropriate interactions, and to develop effective guidance and management techniques. Addresses ages birth through age 8.
Location(s): Online; Virtual

ECE 103 GUIDANCE STRATEGIES FOR CHILDREN/3 (45 lecture hours)

Explores guidance theories, applications, goals, techniques and factors that influence expectations, classroom management issues, and prosocial skills. Addresses ages birth through age 8.
Location(s): Online; Virtual

ECE 111 INFANT AND TODDLER THEORY

& PRACTICE/3 (45 lecture hours)

Prerequisite or Co-requisite: ECE 101

Presents an overview of theories, applications (including observations) and issues pertinent to infant and toddler development in group and\or family settings. Includes state requirements for licensing, health, safety and nutrition issues. Focuses on birth through age three.
Location(s): Online

ECE 126 ART AND THE YOUNG CHILD/2

(30 lecture hours)

Prerequisite or Co-requisite: ECE 101

Prepares students to plan and implement a comprehensive and developmentally appropriate art program for young children. Investigates the development of self-taught art techniques in young children.

ECE 127 MUSIC/MOVEMENT FOR THE YOUNG CHILD/1(15 lecture hours)

Prerequisite or Co-requisite: ECE 101

Focuses on the purposes of incorporating music and movement into the early childhood curriculum. Through active participation with hands-on experiences, students work with the concepts of age and developmental appropriateness when designing fun activities with both subjects

ECE 175 SPECIAL TOPICS/0-3

(up to 68 contact hours)

Explores current topics, issues and activities related to one or more aspects of the early childhood profession.

ECE 188 PRACTICUM: EARLY CHILDHOOD EDUCATION/1 (45 contact hours)

Prerequisite or Co-requisite: ECE 101

Provides students with field experience in early childhood programs.

ECE 205 NUTRITION, HEALTH AND SAFETY/

3(45 lecture hours)

Prerequisite or Co-requisite: ECE 101

Focuses on nutrition, health and safety as a key factor for optimal growth and development of young children. Includes nutrient knowledge, menu planning, food program participation, health practices, management and safety, appropriate activities and communication with families. Addresses ages from prenatal through age 8.
Location(s): Online; Virtual

ECE 220 CURRICULUM DEVELOPMENT: METHODS AND TECHNIQUES/3

(45 lecture hours)

Prerequisite or Co-requisite: ECE 101

Provides an overview of early childhood curriculum development. Includes processes for planning and implementing developmentally appropriate environments, materials and experiences, and quality in early childhood programs. Focuses on ages birth through age 8.
Location(s): Online; Virtual

ECE 225 LANGUAGE AND COGNITION FOR THE YOUNG CHILD/3(45 lecture hours)

Prerequisites or Co-requisite: ECE 101 and ECE 238 or Instructor permission.

Examines theories of cognitive and language development as a framework for conceptualizing the way children acquire thinking skills. Includes observing, planning, facilitating, creative representation, and evaluating strategies within the context of play. Focuses on language, science, math, problem solving and logical thinking. Addresses ages birth through age 8**.**
Location(s): Online

ECE 226 CREATIVITY AND THE YOUNG

CHILD/3(45 lecture hours)

Prerequisite or Co-requisite: ECE 101

Provides an emphasis on encouraging and supporting creative self-expression and problem solving skills in children. Explores creative learning theories and research. Focuses on developmentally appropriate curriculum strategies in all developmental domains. Addresses ages birth through age 8.
Location(s): Online

ECE 238 CHILD DEVELOPMENT/3

(45 lecture hours)

Focuses on growth and development of the individual from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors.(*SS3)*
Location(s): Online; Virtual

ECE 240 ADMINISTRATION OF EARLY CHILDHOOD CARE AND EDUCATION PROGRAMS/3(45 lecture hours)

Prerequisite or Co-requisite: ECE 101

Examines Colorado‘s minimal licensing requirements, as well as optimal standards pertaining to the operation of programs for young children. Focuses on the director’s administrative skills and role as a community advocate for young children. Addresses ages birth through age 12.
Location(s): Online; Virtual

ECE 241 ADMINISTRATION: HUMAN RELATIONS FOR EARLY CHILDHOOD EDUCATION/3(45 lecture hours)

Prerequisite or Co-requisite: ECE 101

Focuses on the human relations component of an early childhood professional’s responsibilities. Includes director-staff relationships, staff development, leadership

strategies, parent-professional partnerships, and community interaction.
Location(s): Online

ECE 256 WORKING WITH PARENTS, FAMILIES, AND COMMUNITY SYSTEMS/3

(45 Lecture hours)

Prerequisite or Co-requisite: ECE 101

Examines attitudes and family values systems and how they affect parent-professional partnerships. Addresses communication, problem-solving and conflict resolution strategies. Plans effective activities and programs for parent involvement. Addresses ages birth through 8.
Location(s): Virtual

ECE 260 EXCEPTIONAL CHILD/3

(45 Lecture hours)

Prerequisites or Co-requisite: ECE 101 and ECE 238

Presents an overview of critical elements related to educating you children with disabilities in the early childhood setting. Topics include: typical and atypical development, legal requirements, research based practices related to inclusion, and accommodations and adaptations. Student

will learn how a disability will impact a young child's learning process. Focus of the course is on birth through age 8.
Location(s): Online; Virtual

ECE 288 PRACTICUM: EARLY CHILDHOOD EDUCATION/3 (135 contact hours)

Prerequisite or Co-requisite: ECE 101

Provides students with advanced field experience opportunities in early childhood education programs.
Location(s): Virtual

ECONOMICS

ECO 201 PRINCIPLES OF MACROECONOMICS /3(45 Lecture hours)

Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. (SS1)
Location(s): Craig; Online

ECO 202 PRINCIPLES OF MICROECONOMICS /3(45 Lecture hours)

Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. (SS1)
Location(s): Online

EDUCATION

EDU 221 INTRODUCTION TO EDUCATION/

3(45 Lecture hours)

Prerequisite: College level reading and writing as demonstrated on college level placement scores.

Co-requisite: Field-Experience component, if not embedded in the class.

Focuses on the historical, social, political, philosophical, cultural and economic forces that shape the United States public school system. Includes current issues of educational reform, technology as it relates to education and considerations related to becoming a teacher in the state of Colorado. Special interest will be paid to the topic of diversity in the K-12 school system.
Location(s): Online

EDU 222 Effective Teaching/1

(15 Lecture hours)

Focuses on strategies for becoming an effective teacher. Topics include course goals and objectives, the first day, planning a lesson, higher levels of thought, test design and grading, assessment, and teaching and learning styles.
Location(s): Online

EMERGENCY MEDICAL SERVICES

EMS 115 EMERGENCY MEDICAL REPSONDER/3

(30 Lecture hours;22.5 Lab hours)

Provides the student with core knowledge and skills to function in the capacity of a first responder arriving at the scene of an emergency, providing supportive care until advanced EMS help arrives.
Location(s): Craig; Rangely

EMS 121 EMT Fundamentals/3

(41.25 Lecture hours; 5.625 Lab hours)

Introduces the Emergency Medical Technician (EMT) student to pre-hospital emergency care. The topics included in this course are Emergency Medical Services (EMS) systems, well-being of the EMT, communications, documentation, anatomy, airway management, and patient assessment.
Location(s): Craig

EMS 122 EMT Medical Emergencies/4

(45 Lecture hours; 22.5 Lab hours)

Prerequisite: EMS 121

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to

effectively provide emergency care and transportation to a patient experiencing a medical emergency. This course focuses on the integration of the physical exam, medical history, and pathophysiology when assessing and treating the medical patient.
Location(s): Craig

EMS 123 EMT Trauma Emergencies/2

(22.5 Lecture hours; 11.25 Lab hours)

Prerequisite: EMS 122

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to provide appropriate emergency care and transportation of a patient who has suffered a traumatic injury. The concepts of kinematics and the biomechanics of trauma, along with pathophysiology and injury patterns will provide the student with the ability to assess and manage the trauma patient.
Location(s): Craig

EMS 124 EMT Special Considerations/2

(22.5 Lecture hours; 11.25 Lab hours)

Prerequisite: EMS 123

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills required to modify the assessment, treatment, and transportation of special patient populations and patients in special circumstances. This course also provides an overview of incident command, mass casualty incidents, vehicle extrication, air medical support, hazardous materials, and terrorism.
Location(s): Craig

EMS 127 AEMT Special Considerations (15 Lecture hours; 22.5 Lab hours)

Prerequisites EMS 131

Introduces the Advanced Emergency Medical Technician (AEMT) student to the fundamental knowledge of growth, development and aging considerations in the emergency patient. The student will learn to use assessment findings to provide basic and selected advanced emergency care and transportation for a patient with special needs. These include the obstetric patient, neonatal patient, pediatric patient, geriatric patient, and patients with special challenges. Learners will apply this knowledge to patient assessment and the development of a treatment plan in a simulated setting. This course also provides an overview of the principles of safe ground ambulance operations, incident management, multiple casualty incidents, air medical responses, vehicle extrication, hazardous material awareness and terrorism and disaster response. Learners will apply critical thinking skills to ensuring the safety of a scene and a plan for safe patient care and transportation.
Location(s): Craig

EMS 129 AEMT Pharmacology/1

(15 Lecture Hours)

Prerequisites: EMS 131

Provides the Advanced Emergency Medical Technician (AEMT) student with a basis for making clinical decisions in the pharmacologic management of patients commonly encountered in the pre-hospital setting. Topics include the legal and ethical aspects of pharmacotherapy, roles, responsibilities and techniques associated with medication preparation and administration, the classification and naming of medications, pharmacokinetics, pharmacodynamics and medication calculations. In addition the mechanism of action, dose, route(s) of administration, therapeutic effects, adverse effects, and therapeutic indications for medications within the Advanced Emergency Medical Technician scope of practice are discussed in detail.
Location(s): Craig

EMS 130 EMT INTRAVENOUS THERAPY/2

(15 Lecture hours;22.5 Lab hours)

Prerequisite: Current EMT Basic certification, or proper licensure.

Focuses on cognitive and skill practice as required by Colorado Pre-hospital Care program for EMT Basic level IV approval. Examines criteria, procedures and techniques for ICV therapy, discusses fluid and electrolyte balance, medication administration, and principles and treatment for shock.
Location(s): Craig

EMS 131 AEMT Fundamentals/2

(15 Lecture hours; 22.5 Lab hours)

Prerequisites: Current EMT Cert and CPR for Healthcare Providers

Provides the Advanced Emergency Medical Technician (AEMT) student with instruction in EMS systems, communications and documentation, pathophysiology, airway management, and the role of EMS in public health.
Location(s): Craig

EMS 133 AEMT Medical Emergencies/2

(15 Lecture hours; 22.5 Lab hours)

Prerequisites: EMS 131

Introduces the Advanced Emergency Medical Technician (AEMT) student to a fundamental knowledge of emergency care for the medical patient. This course provides instruction in the integration of physical exam findings, history findings, and pathophysiology when assessing and treating the medical patient. Topics addressed include neurology, immunology, infectious diseases, endocrine disorders, cardiovascular disorders, toxicology, respiratory emergencies, hematology, and renal disorders.
Location(s): Craig

EMS 135 AEMT Trauma Emergencies/2

(15 Lecture hours; 22.5 Lab hours)

Prerequisites: EMS 131

Introduces the Advanced Emergency Medical Technician (AEMT) student to a fundamental knowledge of emergency care for the trauma patient. The student will learn how to utilize assessment findings to provide basic and selected advanced emergency care and transportation for the trauma patient.
Location(s): Craig

EMS 150 PEDIATRIC EDUCATION FOR PREHOSPITAL PROFESSIONALS/1

(15 lecture hours)

Prerequisite: EMT-Basic or approval from Program Coordinator.

Provides the student with core knowledge and skills necessary to provide emergency care to the pediatric patient.
Location(s): Craig

EMS 170 EMT BASIC CLINICAL/1

(30 lab hours)

Prerequisite or Co-requisite: EMS 124
Provides the EMT student with the clinical experience required of initial and some renewal processes.
Location(s): Craig

EMS 171 AEMT Clinical Internship/2

(90 Internship hours)

Prerequisites: EMS 127, EMS 129, EMS 131, EMS 133, EMS 135

Builds on the Advanced Emergency Medical Technician (AEMT) student's fundamental knowledge of patient care in the clinical and field setting. The student will perform patient assessments through physical examination, and patient interviews of health history and current illness. The student will then use those assessment findings to develop and carry out a patient treatment plan. This will include pediatric, geriatric and adult patients with a variety of presentations. The student will also survey each field scene for safety considerations and scene management.
Location(s): Craig

EMS 175 Special Topics/1

(up to 45 contact hours)

Provides the student with a vehicle to pursue in depth exploration of special topics of interest.
Location(s): Craig

EMS 275 SPECIAL TOPICS/1

(up to 45 contact hours)

Provides the student with a vehicle to pursue in depth exploration of special topics of interest.
Location(s): Craig

ENGLIS

CCR 091 COMPOSITION & READING LAB/1
(15 Lecture hours)

Prerequisite: Accuplacer RC<40 or SS<50 or

Next Gen Accuplacer Writing 200-224

Co-Requisite: CCR 092

Supports skill development for students registered in CCR 092 College Composition and Reading. Topics covered in the course include those defined in CCR 092 and/or any foundational skills needed by the student.

Location(s): Craig; Rangely

CCR 092 COMPOSITION & READING/5

(75 lecture hours)

Prerequisite:

Accuplacer RC 40-61 or SS 50-69 or

Next Gen Accuplacer Writing 225-235

Integrates and contextualizes college level

reading and writing.
Location(s): Craig; Rangely; Online; Concurrent

CCR 094 STUDIO 121/3(45 lecture hours)

Prerequisite:

Accuplacer: RC 62-79 or SS 70-94 Next Gen Accuplacer Writing 236-245

Co-requisite: ENG 121

Integrates and contextualizes reading and

writing strategies tailored to co-requisite ENG

121 coursework.
Location(s): Craig; Rangely; Online

ENG 121 ENGLISH COMPOSITION I/3

(45 lecture hours)

Prerequisite: CCR 092 or

ACT English 18 or

SAT Verbal/Critical Reading (Pre 3/2016) 430 or

SAT Evidence Based Read/Write 470 or

Accuplacer RC 80 or SS 95 or

Next Gen Accuplacer Writing 246+

Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a minimum of five compositions that stress analytical, evaluative, and persuasive/argumentative writing.*(CO1).*
Location(s): Craig; Rangely; Online; Concurrent

ENG 122 ENGLISH COMPOSITION II/3

(45 lecture hours)

Prerequisite: ENG 121

Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or argumentative compositions.(CO2)
Location(s): Craig; Rangely; Online; Concurrent

ENG 131 TECHNICAL WRITING I/3

(45 lecture hours)

Prerequisite: CCR 092 Next Gen Accuplacer Writing 246+ or instructor permission

Develops skills one can apply to a variety of technical documents. Focuses on principles for organizing, writing, and revising clear, readable documents for industry, business, and government.(CO1)
Location(s): Online

ENG 201 ENGLISH COMPOSITION III: CO3/3

(45 lecture hours)

Prerequisite: ENG 122

Provides the skills necessary to enter into higher-level undergraduate academic discourse or professional workplace writing. This course extends rhetorical knowledge and develops critical reading, thinking, and writing strategies in multiple specialized areas of discourse beyond what is encountered in previous composition courses. (CO3)
Location(s): Online

ENG 221 Creative Writing I/3 (45 lecture hours) Prerequisite: ENG 121 or instructor permission. Examines techniques for creative writing by exploring imaginative uses of language through creative genres (fiction, poetry, and other types of creative production such as drama, screenplays, graphic narrative, or creative nonfiction) with emphasis on the

student's own unique style, subject matter and needs.(AH1)
Location(s): Rangely; Online; Concurrent

ENG 222 CREATIVE WRITING II/3

(45 lecture hours)

Prerequisite: ENG 221

Provides continued development of written expression in the creative genres (fiction, poetry, and other types of creative production such as drama, screenplays, graphic narrative, or creative nonfiction) with emphasis on the student's own unique style, subject matter and needs.
Location(s): Online

ENVIRONMENTAL SCIENCE

ENV 101 INTRODUCTION TO ENVIRONMENTAL SCIENCE/4

(45 lecture hours; 30 lab hours)

Introduces the basic concepts of ecology and the relationship between environmental problems and biological systems. This course includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. A holistic approach is used when analyzing how the foundations of natural sciences interconnect with the environment. (SC1)
Location(s): Online

ENV 110 NATURAL DISASTERS/3

(45 lecture hours)

Introduces different types of natural hazards, their causes, effects, and what can be done to reduce the risks to human populations. Scientific advances related to understanding, predicting, and preparing for natural disasters are discussed. This course also covers anthropogenic changes to Earth systems, which may be increasing the frequency and severity of these events. (SC2)
Location(s): Craig, Rangely

EQUINE MANAGEMENT

EQM 103 MANAGEMENT PRACTICUM I/3

(67.5 lab hours)

Enables students to gain practical experience in basic horse husbandry, basic horsemanship and stable management practices. Students are assigned a horse and practice day-to-day management at the college's equine facility. Through practical experience students develop professional characteristics in appearance, attitude, and work ethic.
Location(s): Rangely

EQM 151 HORSE PRODUCTION/4

(60 lecture hours)

Focuses on the external anatomy, and internal anatomy and physiology including skeleton, joints, muscles, digestive system, urinary-excretory system, respiratory system, circulatory system, nervous system, skin and hair. Covers the elements of conditioning these systems for various levels of training.

EQM 153 EQUINE EVALUATION/3

(45 lecture hours)

Focuses on the evaluation of a horse's conformation and performance. Covers terms used in judging horse conformation, evaluation of a horse's conformation and structural soundness, and evaluating performance horses in various classes.
Location(s): Rangely

EQM 158 EQUINE REPRODUCTION/2

(30 lecture hours)

Introduces horse reproduction and the various breeding and management practices found on breeding farms. Covers physiology of the mare and stallion reproductive systems, care of the stallion and the mare, mare heat detection, breeding, care of pregnant mares, foaling, problems in the foal, and care of the foal and yearling.
Location(s): Rangely

EQM 215 LAMENESS IN HORSES/3

(45 lecture hours)

Prerequisite: ASC 102 or instructor Permission.

Expands on basic equine anatomy with emphasis on normal function of front & rear legs & feet including methods of evaluating deviations from normal function presented as lameness in horses. Also discusses response to injury by the body, forms of therapy and conditioning techniques for returning horses to work after injury.

Location(s): Rangely

EQM 251 EQUINE MANAGEMENT/3

(67.5 lab hours)

Covers practical aspects of horse and stable management, feeds and nutrition, diseases and wounds, unsoundness and blemishes, castration, immunization, worming, health care, care of feet and legs, organizing stable routine and activities, stable records and stable construction. Focuses on marketing methods and promotional advertising methods for stables, trainers and horses.

Location(s): Rangely

EQM 280 EQUINE INTERNSHIP/7-10

(262.5 – 375 internship hours)

Students are employed or work at home on an equine operation. The work experience must cover a minimum of 320 hours with the student involved in all facets of this operation.

Location(s): Rangely

EQUINE TRAINING

EQT 200 FUNDAMENTALS OF RIDING INSTRUCTION/3(67.5 lab hours)

Develops the basic skills needed to become effective teachers of riding. Through classroom and arena assignments, students have the opportunity to gain confidence, learn methods of organization, develop lesson plans and practice teaching techniques. Students learn techniques in teaching basic skills for western horsemanship.

EQT 253 APPLIED HORSEMANSHIP/5

(112.5 lab hours)

Provides the student intermediate to advanced horsemanship and maneuvers, with emphasis on individual work.

Location(s): Rangely

ESTHETICIAN

EST 110 INTRODUCTION TO FACIALS AND SKIN CARE/3(15lecture hours;45 lab hours)

Provides a basic understanding of massage manipulations when providing facials and the study of skin in both theory and practical applications. Benefits derived from proper facial and good skin care routines. Training is conducted in a classroom or lab setting using mannequins or models.

Location(s): Craig

EST 111 INTERMEDIATE FACIALS & SKIN CARE/2(45 lab hours)

Covers theory and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students help patrons to select the proper skin care treatment. Practical and theory application can be done in specialized classes or supervised salon (clinical) setting using models or customer service.

Location(s): Craig

EST 210 ADVANCED MASSAGE & SKIN CARE/2(45 lab hours)

Provides the student with advanced techniques in massage, skin care, and lash/brow tinting. Theory and practical procedures ready the student for employment. Instruction is provided in specialized classes or in a supervised salon (clinical) setting. Student preparation for State Board Licensing Examination.

Location(s): Craig

EST 211 FACIAL MAKE-UP/1(22.5 lab hours)

Provides instruction on cosmetics and their functions. The importance of color theory, facial types and skin tones as they relate to facial makeup. Instruction from the basic makeup application to the corrective makeup procedure is taught. Disinfection and sanitation is taught as it pertains to all aspects of makeup.

Location(s): Craig

EST 212 HAIR REMOVAL/3

(15 lecture hours;45 lab hours)

Provides in-depth study and practice of hair removal and the practice of patron protection and safety. Training for general waxing and body waxing procedures are provided. Demonstration of disinfection and sanitation as it pertains to Colorado rules and regulations will be practiced.
Location(s): Craig

EST 275 SPECIAL TOPICS/0-12

(7.5 – 270 lecture/lab hours)

Provides students with a vehicle to pursue in depth exploration of special topics of interest.
Location(s): Craig

FARRIER SCIENCE

FAS 100 FARRIER SCIENCE I/4

(45 lecture hours)

Introduces horses from evolution to the present with emphasis on existing breeds and shoeing requirements. Course also covers behavior patterns of horses, proper handling and safety; need for and frequency of shoeing, anatomy and physiology of the lower leg, angles, hoof preparation, shoe selection, shaping, and basic techniques.
Location(s): Rangely

FAS 110 FARRIER SCIENCE II/4

(60 lecture hours)

Focuses on corrective shoeing for pleasure and racehorses. Emphasizes anatomy of horses, physiology of the lower leg, preliminary examination, and natural angles of the legs, hoof preparation, and normal shoeing.
Location(s): Rangely

FAS 120 FARRIER SCIENCE III/4

(60 lecture hours)

Introduces special purpose shoeing for racehorses, trail horses, etc. Examines corrective showing, shoeing requirements for various breeds, special purpose plating, special equipment, and public relations.
Location(s): Rangely

FINANCE

FIN 101 INTRODUCTION TO FINANCE/3

(45 lecture hours)

Provides an in-depth study of the US monetary system, the role of banks as financial intermediaries, and the types of financing. Includes international financial markets and international financial instruments used in importing and exporting, analysis of stock and bond values, the role and process of the stock and bond markets and the derivative marketplace. Enables the student to produce a cash budget, analyze financial statements including all financial ratios used in credit analysis, and determine capital requirements and financing arrangements.
Location(s): Craig, Concurrent

FIN 105 PRINCIPLES OF BANKING/3

(45 lecture hours)

Explores nearly every aspect of banking as a solid foundation for any career in the financial services industry. Just as the industry is constantly changing, this course is continually being revised to provide specific up-to-date information.
Location(s): Craig

FIN 226 MONEY AND BANKING/3

(45 lecture hours)

Presents a fundamental treatment of how money functions in the U.S. and world economies. Includes the concept of money supply, the Federal Reserve System, the role banks play as a money creator and participant in the nation's payment mechanism. Examines how the various types of financial institutions operate, the working of monetary and fiscal policies, and the role of a Central Bank and International Banking.
Location(s): Craig

FIN 245 LAW AND BANKING APPLICATIONS/2(45 lecture hours)

Introduces the laws pertaining to secured transactions, letters of credit, and the bank collection process. Enables the student to explain the concept of negotiability, analyze the concept of holder-in-due-course status, define and explain the nature of the letter of credit, describe the nature of primary and secondary contractual liability on an instrument, identify the

issues related to secured transactions and discuss the legal issues related to bank collections and check losses.
Location(s): Craig

FIN 285 INDEPENDENT STUDY/0-12

(15-180 lecture hours)

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.
Location(s): Craig

FIRE SCIENCE TECHNOLOGY

FST 100 FIREFIGHTER I/9

(75 lecture hours;90 lab hours)

Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard using IFSTA Essentials.
Location(s): Rangely, Concurrent

FST 102 PRINCIPLES/EMERGENCY SERVICES/3(45 lecture hours)

Introduces the fire service organization and operation from past to present operations. Includes operation and organization of federal, state, local and private protection forces. Emphasizes extinguishing methods and equipment, special extinguishing agents, and special hazard considerations. Serves as a prerequisite for students having no previous fire suppression training or experience.

FST 259 WILDLAND FIREFIGHTING/3

(45 lecture hours)

Focuses on management of uncontrolled fire burning, urban/wildland interface, strategy and tactics used in controlling wild land fires, prevention methods, and incident command practices.
Location(s): Rangely

FIRE SCIENCE WILDLAND

FSW 100 S-190 INTRO TO WILDLAND FIRE

BEHAVIOR/1(15 lecture hours)

Provides instruction in the primary environmental factors that affect the start and spread of wildfire and recognition of potentially hazardous situations. This course can be taught in conjunction with or prior to Firefighting Training S-130.
Location(s): Rangely

FSW 101 S-130 FIREFIGHTING TRAINING/2

(45 Lab hours)

Provides entry-level firefighter skills. A version of the L-180, Human Factors on the Fire line, is included as part of the course. Credit should be issued for S-130.
Location(s): Rangely

General Equivalency Diploma

GED 010 PRE-GED PREPARATION/1-12

(15-180 lecture hours)

Presents material for the student who needs review before doing GED preparation. Diagnostic tests determine skill level; help is available in writing skills, reading, and math.
Location(s): Craig, Meeker, Rangely

GED 011 GED PREPARATION/1-12

(15-180 lecture hours)

Prerequisite: A minimum score of 35 on individual GED Pre-tests or GED 010.

Presents material for students who need to prepare for the GED tests: Language Arts, Writing; Language Arts, Reading; Mathematics; Science; and Social Studies.
Location(s): Craig, Meeker, Rangely

GEOGRAPHIC INFORMATION SYSTEMS

GIS 101 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS/3 (45 lecture hours)

Surveys the development and operation of automated geographic information systems. Focuses on the fundamentals of using computers to draw maps. Incorporates study of cartographic fundamentals such as map projections, map scales, selective display of data on maps, and various computer software applications in GIS.

Location(s): Rangel

GEOGRAPHY

GEO 105 World Regional Geography/ 3 (45 lecture hours)

Examines the spatial distribution of environmental and societal phenomena in the world's regions; environmental phenomena may include topography, climate, and natural resources; societal phenomena may include patterns of population and settlement, religion, ethnicity, language, and economic development. Analyzes the characteristics that define world regions and distinguish them from each other. Examines the relationships between physical environments and human societies. Examines globalization, emphasizing the geopolitical and economic relationships between more developed and less developed regions.(SS2)

Location(s): Online

GEO 106 Human Geography: GT-SS2/3 (45 lecture hours)

Introduces geographic perspectives and methods in the study of human societies by examining the spatial characteristics of populations, language, religion, ethnicity, politics, and economics. This course examines the relationships between physical environments and human societies. (SS2)

Location(s): Online

GEO 111 PHYSICAL GEOGRAPHY-LANDFORMS/4

(45 lecture hours; 30 lab hours)

Examines the principles of Earth's physical processes, emphasizing landforms, soils, and hydrology. Examines the formation and distribution of landforms, such as mountains, valleys, and deserts, and their shaping by fluvial and other processes. (SC1)

Location(s): Craig

GEO 112 PHYSICAL GEOGRAPHY –

WEATHER & CLIMATE/4

(45 lecture hours;30 lab hours)

Introduces the principles of meteorology, climatology, world vegetation patterns, and world regional climate classification. The course includes investigating the geographic factors which influence climate such as topography, location, elevation, winds, and latitude. *(SC1)*

Location(s): Online

GEOLOGY

GEY 108 GEOLOGY OF NATIONAL PARKS/3

(45 lecture hours)

Explores significant geologic features and the processes that create them using examples and case studies from the U.S. National Park System. Weathering and erosional landforms, caves and reefs, coasts, glaciers, volcanoes, and complex mountains are discussed.

Fundamental geologic concepts including plate tectonics, deep time, and rock classification are introduced and incorporated throughout the course. *(SC2)*

Location(s): Rangely

GEY 111 PHYSICAL GEOLOGY W/LAB/4 (45 lecture hours; 30 lab hours)

Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. (SC1)

Location(s): Craig; Online

GEY 112 HISTORICAL GEOLOGY W/LAB /4 (45 lecture hours; 30 lab hours)

Covers the development of Earth through the vast span of geologic time. Emphasis is on the investigation and interpretation of sedimentary rocks and features, the record of ancient environments, fossil life forms, and physical events in Earth's history within the framework of plate tectonics. This course includes laboratory experience. (SC1)

Location(s): Craig; Rangely; Online

GEY 216 GENERAL OCEANOGRAPHY I/4

(45 lecture hours; 30 lab hours) Prerequisite: BIO 111 or CHE111 and Co-Requisite: BIO 112 or CHE 112

Provides a comprehensive introduction to modern geological and chemical oceanography. Includes earth history, plate tectonics, geophysics, geochemistry, marine sediments, the hydrosphere, physical properties of salt water, major and minor components of seawater, and ocean-atmosphere interactions. This course includes laboratory experience.*(SC1)*

Location(s): Rangely

GEY 229 FIELD PALEONTOLOGY/3

(112 field hours)

Provides the opportunity to experience paleontology in a field setting and apply field techniques in the identification, mapping, and excavation of rocks and fossils. The course will culminate in a field trip lasting between seven and fourteen days. The specific area of investigation will be indicated in the course schedule each time the course is offered.

Location(s): Craig

GEY 230 PALEONTOLOGY LAB TECHNIQUES/3

(90 lab hours)

Provides laboratory experience in paleontology, covering: training in fossil preparation, identification of specimens, documentation (photographic and scientific illustration), cataloging, molding and casting, and specimen curation.

Location(s): Craig

HEALTH AND WELLNESS

HWE 100 HUMAN NUTRITION/3

(45 lecture hours)

Introduces basic principles of nutrition with emphasis on personal nutrition. This course focuses on macro and micro nutrients and their effects on the functions of the human body. Special emphasis is placed on the application of wellness, disease, and lifespan as it pertains to nutrition.

Location(s): Craig; Rangely; Online

HWE 103 COMMUNITY FIRST AID AND CPR/1 (15 lecture hours)

Prepares the student for certification in CPR and Basic First Aid. Skills will include basic life support, airway obstruction, control of bleeding, shock, and patient care for the unconscious.

Location(s): Craig

HWE 121 WILDERNESS FIRST AID/2

(30 Lecture Hours)

Provides more advanced wilderness care for the First Responder or EMT provider.

Location(s): Rangely

HWE 129 WILDERNESS FIRST RESPONDER/4 (40 lecture hours; 40 lab hours)

Provides the student with those skills and emergency medical care techniques used by guides, trip leaders and others providing primary care in backcountry setting. The student will be able to respond correctly to those medical and trauma situations commonly encountered when entry into the EMS system is delayed or unlikely.

Location(s): Rangel

HEALTH PROFESSIONAL

HPR 102 CPR FOR PROFESSIONALS: (LIST CERTIFICATION)/0.5 (7.5 lecture hours)

Meets the requirement for American Red Cross Professional Rescuer CPR or American Heart Association Basic Life Support for those who work in Emergency Services, Health Care and other professional areas. Material presented in the course is basic patient assessment, basic airway management, rescue breathing, and CPR for infant, children and adult patients.

Location(s): Craig

HPR 103 CPR FOR PROFESSIONALS RENEWAL/0.25 (4.0 lecture hours)

Prerequisite: Must have current CPR for Professionals Card or equivalent

Provides opportunity for currently certified CPR providers to renew certificates.

Location(s): Rangely

HPR 106 LAW & ETHICS FOR HEATH PROFESSIONALS/2

Introduces student to the study and application medico-legal concepts in medical careers. This course seeks to establish a foundation for ethical behavior and decision making in health professions**.**

Location(s): Craig, Rangely

HPR 108 PHLEBOTOMY/4

Teaches the duties associated with the practice of venipuncture, capillary puncture, and special collection procedures. Students will have experience with quality control, infection control and safety procedures as well as laboratory computer systems. Students successfully completing this course may apply for a National Phlebotomy Registry Examination.

Location(s): Craig

HPR 112 DIETARY NUTRITION/1

(15 lecture hours)

Studies the basic principles in clinical practice involved in the assistance of health care. The course will cover factors which influence the nutritional status of individuals, methods of nutritional assessment and support, and diet modification for specific disease states.

HPR 120 ACLS/1

(15 lecture hours)

Prerequisite: Current basic life support health care provider C certification.

Presents the required material for ACLS completion. It will cover arrhythmias, medications, therapeutic modalities for life threatening arrhythmias, airway management, and other treatment modalities used in cardiac and respiratory arrest.

Location(s): Craig, Concurrent

HPR 121 ACLS RECERTIFICATION/.5

(7.5 lecture hours)

Prerequisite: ACLS completion with current card.

Presents the required material for ACLS recertification. It will cover rhythm recognition, cardiac drugs, cardiac monitors, and case based scenarios.

Location(s): Craig, Concurrent

HPR 175 SPECIAL TOPICS - INTRODUCTION TO THE DENTAL HYGIENE PROFESSION/

1 (15 lecture hours)

An introduction to fundamental concepts and practices related to dentistry and dental hygiene in particular, and as they relate to other healthcare professions. Topics include professionalism, the history of dental hygiene, basic oral anatomy, and the dental specialties. Two hours of observation in CNCC's Dental Hygiene clinic will be required. (This course is not required for entry into the Dental Hygiene Program, but is strongly recommended.)

Location(s): Rangely

HPR 275 SPECIAL TOPICS - NATIONAL BOARDS PREPARATION/1 (15 lecture hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides formal review sessions for second year dental hygiene students preparing to sit for the National Board Examination in March

Location(s): Rangely

HPR 178 SEMINAR: MEDICAL TERMINOLOGY/1-4 (15 – 60 lecture hours)

Introduces the student to the structure of medical terms with emphasis on combining and using the most common prefixes, roots and suffixes. Includes terms related to clinical laboratory, diagnostic imaging, nuclear medicine and oncology, as well as major body systems. Classroom structure provides accepted pronunciation of terms and relative use in the healthcare setting.

Location(s): Craig; Rangely; Online

HPR 180 INTERNSHIP

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

Location(s): Rangely

HPR 217 KINESIOLOGY/4

(45 lecture hours;30 lab hours)

Prerequisite: BIO 201 or instructor permission.

Focuses on mechanical principles of kinematics, kinetics, muscle physiology, and neurophysiology and the interaction to produce function. Joint and muscle structure and function with application is a main focus.

Location(s): Craig

HEAVY EQUIPMENT MECHANICS

HEM 114 FINAL DRIVES ANDHYDRAULIC STEERING/2

(45 Lecture and Lab hours)

This course focuses on identification, construction, operation, and repair procedures of heavy equipment final drive and hydraulic steering systems.

Location(s): Craig

HEM 210 HYDRAULICS AND

TRANSMISSIONS/2

(112.5 contact hours)

Focuses on the study of hydraulic systems and power flow from the engine to the drive wheels or tracks. Provides the fundamentals of pumps, cylinders, valves, transmissions, clutches, and related components. Covers the proper uses of testing equipment and troubleshooting of systems.

Location(s): Craig

HEM 211 FINAL DRIVES AND BRAKES/2

(75 contact hours)

Focuses on the study of single and double final drives and brake systems on both light and heavy duty equipment. Covers diagnostics, service and repair techniques.

Location(s): Craig

HEM 213 HEAVY EQUIPMENT POWER SHIFT/3

(67.5 Lecture and Lab hours)

This course focuses on identification, diagnosis, service, and repair of power shift transmissions, components, and control systems used in heavy equipment applications.

Location(s): Craig

HEM 275 SPECIAL TOPICS/1

(37.5 contact hours)

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

Location(s): Craig

HISTORY

HIS 101 WESTERN CIVILIZATION: ANTIQUITY-1650/3 (45 lecture hours)

Explores trends within events, peoples, groups, ideas, and institutions in Western Civilization from antiquity to 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. (HI1)

Location(s): Craig; Online

HIS 102 WESTERN CIVILIZATION: 1650-PRESENT/3 (45 lecture hours)

Explores trends within events, peoples, groups, ideas, and institutions in Western civilization since 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. (HI1)

Location(s): Craig; Online

HIS 111 THE WORLD: ANTIQUITY-1500/3

(45 lecture hours)

Explores trends within events, peoples, groups, ideas, and institutions in World History from antiquity to 1500. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This course focuses on common cultural trends. (HI1)

Location(s): Rangely; Online; Concurrent

HIS 112 THE WORLD: 1500-PRESENT/3

(45 lecture hours)

Explores trends within events, peoples, groups, ideas, and institutions in World History since 1500 as well as on common cultural trends. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through the perspectives such as gender, class, religion, and ethnicity. (HI1)

Location(s): Rangely; Online; Concurrent

HIS 121 US HISTORY TO RECONSTRUCTION/3 (45 lecture hours)

Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. (HI1)

Location(s): Craig; Rangely; Online; Concurrent

HIS 122 US HISTORY SINCE THE CIVIL WAR /3 (45 lecture hours)

Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. (HI1)

Location(s): Craig; Rangely; Online; Concurrent

HIS 215 WOMEN IN U.S. HISTORY/3

(45 lecture hours)

Examines women's changing roles in American history. It explores the nature of women's work and the participation of women in family, political, religious, and cultural activities and in social reform movements. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. (HI1)

Location(s): Craig

HIS 218 HISTORY OF SCIENCE & TECHNOLOGY/3 (45 lecture hours)

Explores the complex relationship between scientific and technological developments and western society and culture. It emphasizes the way social and cultural norms can impact scientific or technological progress, and vice-versa, especially in the period since the Scientific Revolution. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. (HI1)

HIS 225 COLORADO HISTORY/3

(45 lecture hours)

Presents the story of the people, society, and cultures of Colorado from its earliest Native Americans, through the Spanish influx, the explorers, the fur traders, mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. (HI1)

Location(s): Rangely; Online

HIS 235 HISTORY OF THE AMERICAN WEST/3

(45 lecture hours)

Traces the history of the American West from Native American cultures to the present. It explores the frontier experiences of America's earliest, eastern settlers through the Trans-Mississippi West across the great exploratory and wagon trails including cities, ranching, reservation, resource management, and industry. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. (HI1)

Location(s): Rangely

HIS 236 US HISTORY SINCE 1945/3

(45 lecture hours)

Examines the major political, economic, social, and cultural developments that have shaped modern America from 1945 to the present. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. (HI1)
Location(s): Concurrent

HIS 244 HISTORY OF LATIN AMERICA/3

(45 lecture hours)

Focuses on the major political, economic, social, and cultural influences that have shaped Latin America from pre-European conquest to the present. Emphasizes the early history of Latin America but connects it to the present. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. (HI1)
Location(s): Rangely

HIS 245 US IN THE WORLD/3

(45 lecture hours)

Focuses on major themes of United States history in the context of worldwide historical phenomena, including global contacts and exchange, colonial frontiers and international trade, America's influence on the age of revolutions, industrialization and movement of populations, urbanization and rural change, and expansion of state power and rise of social movements. Through readings and discussions on problems in political, social, public and personal history, students will gain an understanding of historical processes and methodology and will learn how to use critical historical analysis in order to achieve a greater perspective on the US's role in world history. (HI1)
Location(s): Concurrent

HIS 247 20TH CENTURY WORLD HISTORY

3 (45 lecture hours)

Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions, empires, and nation-states since the late nineteenth century. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. (HI1)
Location(s): Online

HIS 255 THE MIDDLE AGES/3

(45 lecture hours)

Examines political, social, cultural, economic and intellectual developments in Europe, Byzantium and the Islamic world from the collapse of Rome through the Renaissance, approximately A.D. 400-1400. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. (HI1)
Location(s): Craig

HIS 265 WRITING ABOUT HISTORY/3

(45 lecture hours)

Develops skills in historical writing, the use of rhetorical devices in persuasive historical arguments, critical analysis, and research methods in the historical study. Engaging in diverse historical readings, writings, and conversations, students devise strategies to identify workable topics, locate sources in libraries, archives and published materials, and adapt their writing style to communicate with a variety of audiences. (CO3)

HOLISTIC HEALTH PROFESSIONAL

HHP 107 MANAGING LIFE'S STRESSES/1
(7.5 lecture hours; 11.25 lab hours)

Work with energy, confidence and enthusiasm in your life by learning specific skills that will give you control over stressful situations or people in your life. This experiential class is designed for all who are interested in a higher quality of life and want to reach their full potential. Learn how to relax quickly, improve self-image, improve concentration, and how to control your worry. You can experience freedom from old patterns that create stress, fatigue and restricting beliefs.
Location(s): Craig

HHP 108 AROMATHERAPY/1 (7.5 lecture hours; 11.25 lab hours)

While much ancient wisdom on the use of essential oils in health maintenance and the healing of disease has been lost, some tantalizing data from the ancient Egyptians exists and has been verified by modern scientific research. Explores the pharmacokinetics and neurophysiology of essential oils, looking into their origins, extraction, storage, and usage. Enables the student to observe a large number of essential oil remedies and their applications.
Location(s): Craig

HHP 110 NEURO-LINGUISTIC PROGRAMMING/.5(11.25 lab hours)

Explores practical skills that enhance and expand a person's ability to build verbal and non-verbal rapport with others.
Location(s): Craig

HHP 160 LEARN TO MEDITATE/.5

(7.5 lecture hours)

Focuses on techniques to meditate and explores the life-enhancing benefits of meditation.
Location(s): Craig

HHP 166 INTRODUCTION TO REFLEXOLOGY/1

(7.5 lecture hours; 11.25 lab hours)

Teaches the student foot anatomy, basic hand stroke and foot reflex points.
Location(s): Craig

HHP 242 HEALING TOUCH LEVEL I/1

(7.5 lecture hours;11.25 lab hours)

Healing Touch is an energy based therapeutic approach to healing. Enables the student to develop and use touch as a means of assessing a client's/patient's state of wellness through the intentional use of touch. Participants are given specific instructions in developing touch sensitivity and practice the assessment and healing methods. Healing Touch is a multi-level program that moves from beginning to advanced practice. After completion of Level 3, a person is eligible to apply for certification as a healing touch practitioner.
Location(s): Craig

HHP 243 HEALING TOUCH LEVEL II/1

(7.5 lecture hours;11.25 lab hours)

Allows the person who has completed Healing Touch Level I to gain the specific skills necessary to become an advanced practitioner. Emphasizes experiential learning and focuses on developing healing sequences for specific client needs. Back techniques are introduced, and the therapeutic interactions for specific emotional and physiological problems are discussed and practiced.
Location(s): Craig

HHP 267 LIVING WITHOUT LIMITS/.5

(3.75 lecture hours;5.6 lab hours)

Focuses on the steps which can be taken to clarify goals, get support for challenges, and act effectively to accomplish one's life dreams.
Location(s): Craig

HORSE TRAINING MANAGEMENT

HTM 151 FUNDAMENTALS OF COLT STARTING/4 (90 Contact Hours)

Provides students with a foundation in starting an inexperienced horse under saddle. Students will progress to riding the horse out of the round pen/arena while isolating cues to move the shoulders, rib cage (lateral movement) and hips at the walk, jog and lope.
Location(s): Rangely

HTM 152 BASIC CARE AND TRAINING/7

(157.5 lab hours)

Provides each student with one horse to start and train in the following: show in halter; grooming properly; bitting and driving; standing still while being saddled, bridled and mounted; working on the rail; taking proper leads; backing and loping circles, stopping, two-tracking; and opening gates. The students will also receive instruction in basic hoof care and proper stable management. This course will end with the student participating in the HTM Semester Horse Show.
Location(s): Rangely

HTM 155 FOAL TRAINING/1

(22.5 lab hours)

Provides each student with one or more weanlings to train in the following objectives; show at halter; load in trailer; and pick up all four feet. This course will last two weeks.
Location(s): Rangely

HTM 253 SPECIALIZED TRAINING/7

(157.5 lab hours)

Provides each student with one or more horses to train. The first part of the semester will deal with establishing the foundation on the horses. The remainder of the semester will be utilized in building the specialized skills. This section will end with the student participating in the HTM Semester Horse Show.
Location(s): Rangely

HTM 260 INTRODUCTION TO INTERNSHIP/1

(15 lecture hours)

Acquaints students with employer/employee relations, public relations, and expectations of internship prior to leaving campus.
Location(s): Rangely

HTM 280 INTERNSHIP/0-12

(0-540 contact hours))

Provides each student with placement in the horse industry under a prominent person who specializes in the student's main are of interest for the spring semester. At the end of the semester, the student will return to campus for a seminar and analysis of the internship. Students must maintain a 2.5 GPA in HTM courses and 2.0 GPA in related courses to be placed on internship.
Location(s): Rangely

HORTICULTURE

HTL 100 Introduction to Plant Science/4 (45 lecture hours; 30 lab hours)

Introduces students to the principles of the plant science as they relate to horticulture. The course emphasizes the application of plant sciences to the propagation, improvement, culture and utilization of horticultural plants.
Location(s): Concurrent

HUMAN PERFORMANCE AND EXERCISE

HPE 102 INTRODUCTION TO SPORTS MEDICINE/2 (15 lecture; 30 field hours)
Introduces students to the field of sports medicine. This includes career opportunities, education and certification requirements for a variety of sports medicine related careers. The course requires 30 observation hours under the supervision of a credentialed sports medicine professional to give students hands on learning opportunities and provide a better understanding of what is required of sports medicine professionals.
Location(s): Rangely

HUMANITIES

HUM 103 Introduction to Film Art/3 (45 lecture hour)

Introduces film terminology and narrative techniques to explore how film conveys meaning and to study the relationships among film form, content, and audience reception. This course emphasizes active viewing, discussion, and critical analysis of films from different cultures and eras. (AH2)
Location(s): Rangely

HUM 115 World Mythology/3

(45 lecture hours)

Introduces an interdisciplinary approach to world mythology. The course illustrates and connects common themes in mythology to world religion, philosophy, art, literature, music, and contemporary culture using various interpretive methods.(AH2)
Location(s): Craig; Rangely; Online

HUM 121 HUMANITIES: EARLY CIVILIZATIONS/3

(45 lecture hours)

Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among diverse cultures, including European and non-European, from the prehistoric to the early medieval era. (AH2)
Location(s): Craig; Rangely; Online

HUM 122 OF HUMANITIES: MEDIEVAL - MODERN/3

(45 lecture hours)

Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the medieval to the early modern era. (AH2)
Location(s): Craig; Rangely; Online

HUM 123 HUMANITIES: THE MODERN WORLD/3

(45 lecture hours)

Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the European Enlightenment to the postmodern era. (AH2)
Location(s): Craig; Rangely; Online

JOURNALISM

JOU 105 INTRODUCTION TO MASS MEDIA/

3 (45 lecture hours)

Places the mass media in an historical and

cultural perspective, considering the validity,

integrity and influence of the media in a democracy. (SS3)
Location(s): Craig

LITERATURE

LIT 115 INTRODUCTION TO LITERATURE/3

(45 lecture hours)

Introduces students to fiction, poetry, and drama. Emphasizes active and responsive reading. *(AH2)*
Location(s): Rangely; Online; Concurrent

LIT 201 WORLD LITERATURE TO 1600/3

(45 lecture hours)

Examines significant writings in world literature from the ancients to the seventeenth century. It emphasizes active reading and understanding of the works and their cultural backgrounds. (AH2)
Location(s): Online

LIT 202 WORLD LITERATURE AFTER 1600/

3 (45 lecture hours)

Examines significant writings in world literature from the seventeenth century to the present. It emphasizes active reading and understanding of the works and their cultural backgrounds.(AH2)
Location(s): Online; Concurrent

LIT 205 ETHNIC LITERATURE/3

(45 lecture hours)

Examines the cultural, historical, and social contexts impacting multiple ethnic American identities through critical reading and analysis. This course focuses on significant works by authors who identify as African American, Native American, Latino/a, Asian American, and other ethnicities. (AH2)

LIT 211 AMERICAN LITERATURE TO CIVIL WAR/3

(45 lecture hours)

Examines American literary works from pre-European arrival on the continent up to the Civil War, including works from diverse people that contributed to American literature. This course also explores historical and social contexts within various genres. (AH2)
Location(s): Online

LIT 212 AMERICAN LITERATURE AFTER THE CIVIL WAR/3

(45 lecture hours)

Examines American literary works from 1865 to the present, distinguishing among literary themes, genres, and schools of thought that illustrate historical and social contexts across a multicultural spectrum. (AH2)
Location(s): Online; Concurrent

LIT 221 BRITISH LITERATURE TO 1770/3

(45 lecture hours)

Examines major works of British literature from the Anglo-Saxon period through the 17th century. Explores the historical, political, and social contexts of the works as well as the major themes which reflect and/or critique the social assumptions and values of the times. Besides fostering an understanding of works essential to western culture, the course will examine how these works are still influential and relevant to contemporary thought and culture. (AH2).
Location(s): Online

LIT 222 BRITISH LITERATURE SINCE 1770/ 3 (45 lecture hours)

Examines major works of British literature from the 18th century to the present. Explores the historical, political, and social contexts of the works and the major themes authors used to reflect and critique the social assumptions of their times. Besides fostering an understanding of works essential to western culture, the course examines how these works are still influential and relevant to contemporary thought and culture. (AH2)
Location(s): Online

LIT 225 INTRODUCTION TO SHAKESPEARE/3 (45 lecture hours)

Explores works by William Shakespeare, focusing on a careful reading of these works as well as an exploration of pertinent contextual and historical information. (AH2)
Location(s): Online

LIT 246 LITERATURE OF WOMEN/3 (45 lecture hours)

Examines the techniques and themes in literature of various genres by and about women by considering what it means for women to be in literature, as characters and also as authors. (AH2)
Location(s): Rangely

LIT 255 CHILDREN'S LITERATURE/3

(45 lecture hours)

Evaluates the criteria for selecting appropriate literature for children through exploration of genres, age levels, values taught through literature, and the literary and artistic quality of various texts.
Location(s): Online

MANAGEMENT

MAN 102 BUSINESS ETHICS AND VALUES/1

(15 lecture hours)

Discusses behavior and identifies what is ethical and appropriate behavior and what is not. This course will identify the role of integrity, character, honesty, self–control, self-sacrifice, and core values in developing ethical and effective behavior in the workplace.

Location(s): Craig, Concurrent

MAN 116 PRINCIPLES OF SUPERVISION/3

(45 lecture hours)

Studies the principles and techniques of supervising and motivating personnel. This course is designed for students who are interested in supervising others or for those currently in supervision. Course content focuses on the human interaction in supervision.
Location(s): Craig

MAN 117 TIME MANAGEMENT/1

(15 lecture hours)

Provides students with the conceptual knowledge and tools to make better use of their time in the management function.
Location(s): Craig, Concurrent

MAN 200 HUMAN RESOURCE MANAGEMENT I/3

(45 lecture hours)

Provides the student with a broad overview of the contemporary issues, theories and principles used to effectively manage human resources. Topics include recruiting, hiring, compensation and benefits, training and development, employee relations and legal issues.
Location(s): Online

MAN 212 NEGOTIATION AND CONFLICT RESOLUTION/3

(45 lecture hours)

Presents proper techniques in negotiation and conflict resolution. Key practices that determine successful negotiation are explored. This course covers principles of conflict resolution including business policies, accepted business practices contracts, labor union contracts, pay raises and starting salaries.
Location(s): Craig, Concurrent

MAN 216 SMALL BUSINESS MANAGEMENT/3

(45 lecture hours)

Examines the elements necessary for the successful formation of a new small business. It is also designed to enhance the skills of those already involved in the operation of a small business. The course includes the development of a complete small business plan.
Location(s): Craig; Online

MAN 226 PRINCIPLES OF MANAGEMENT/3

(45 lecture hours)

Presents a survey of the principles of management. Emphasis is on the primary functions of planning, organizing, leading and controlling with a balance between the behavioral and operational approach.
Location(s): Online

MARKETING

MAR 111 PRINCIPLES OF SALES/3

(45 lecture hours)

Prerequisite: BUS 115

Enables the student to understand and develop ethical sales techniques and covers the role of selling in the marketing process. Areas of emphasis include behavioral considerations in the buying and selling process and sales techniques.
Location(s): Online

MAR 160 CUSTOMER SERVICE/3

(45 lecture hours)

Enables students to learn the relationship of self to customers, problem solve and understand the importance of communicating with customers. Specific emphasis is given to managing customer expectations by building customer rapport and creating positive outcomes.
Location(s): Online

MAR 216 PRINCIPLES OF MARKETING/3

(45 lecture hours)

Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer.
Location(s): Online; Concurrent

MASSAGE THERAPY

MST 105 LIFESTYLE WELLNESS/2

(75 contact hours)

Provides opportunity to learn and apply specific wellness principles to your individual lifestyle. Student completes self-analysis of health behaviors and how lifestyle affects health status.

MST 106 ANATOMY & PHYSIOLOGY FOR MASSAGE THERAPY/4

(150 contact hours)

Provides a general knowledge of the anatomy and physiology of the body systems with focus on the anatomy and physiology of the muscular and skeletal systems. This course is designed specifically for individuals specializing in massage therapy.

Location(s): Craig

MST 111 BASIC MASSAGE THERAPY/4

(150 contact hours)

Introduces theory and techniques of therapeutic massage, including understanding of physiological benefits of massage as well as proper body mechanics and appropriate draping. Focuses on basic strokes of Swedish massage. Students also learn techniques of seated massage.

Location(s): Craig

MST 113 PROFESSIONAL MASSAGE/3

(112.5 contact hours)

Continues the study of Integrative Therapeutic Massage techniques with emphasis on assessing and meeting client's needs. Students give massage in supervised in-class clinicals, applying appropriate therapeutic intervention.

MST 178 SEMINAR/1

(37.5 contact hours)

Provides students with an experiential learning opportunity. Used to review for exam.

MST 184 CLINICAL MASSAGE/3

(112.5 contact hours)

Prerequisite: HPR 102 or Professional CPR certificate

Applies skills in a clinical setting. Focuses on improvement of massage therapy skills, ethics, and communication.

MST 204 MST BUSINESS PRACTICES/2

(75 contact hours)

Assists the practitioner of massage therapy to envision, market, establish, and maintain a professional massage therapy practice.

MST 216 PATHOLOGY FOR MASSAGE THERAPY/3

(112.5 contact hours)

Focuses on basic knowledge of disease and injury to assist the massage therapist to promote healing, ease pain and discomfort, and avoid complications during therapy. With a broad perspective of pathology and specific pathophysiology of diseases contributing to the need for massage therapy, this course provides the foundational science for safe practice.

Location(s): Craig

MST 284 CLINICAL MASSAGE/6

(225 contact hours)

Provides an application of massage therapy skills in a clinical setting. This course focuses on improvement of techniques, communication with clients and other health professionals as well as documentation of massage sessions.

MST 289 CAPSTONE/0.5

(18.75 contact hours)

Demonstrates the culmination of learning within a given program of study.

MATH

MAT 020 QUANTIATIVE LITERACY LAB/1

(15 lecture hours)

Prerequisite:

Accuplacer AR 24-39 or EA 0-29 or

Next Gen Accuplacer AR 240-254

Co-requisite: MAT 050

Supports skill development for students registered in MAT 050 Quantitative Literacy. Topics covered in this course include those defined in MAT 050 and/or any pre-requisite skills needed by the student. For students with Accuplacer score AR 24-39 or EA < 30 this course is a required co-requisite with MAT 050 Quantitative Literacy.

MAT 025 ALGEBRAIC LITERACY LAB/1

(15 lecture hours)

Prerequisite:

Accuplacer EA 45-84 or

Next Gen Accuplacer QAS 250-264

Co-requisite: MAT 055

Supports skill development for students registered in MAT 055 Algebraic Literacy. Topics covered in this course include those defined in MAT 055 and/or any prerequisite skills needed by the student. For students with Accuplacer score EA 45-59, this course is a required co-

requisite with MAT 055 Algebraic Literacy.
Location(s): Online

MAT 050 QUANTITATIVE LITERACY/4

(60 lecture hours)

Prerequisite:

Accuplacer: AR 41 or EA 30-84 or

Next Gen Accuplacer AR 255-264

Develops number sense and critical thinking strategies, introduce algebraic thinking, and connect mathematics to real world applications. Topics in the course include ratios, proportions, percent, measurement, linear relationships, properties of exponents, polynomials, factoring, and math learning strategies. This course prepares students for Math for Liberal Arts, Statistics, Integrated Math, and college level career math courses.
Location(s): Craig; Rangely; Online; Concurrent

MAT 055 ALGEBRAIC LITERACY/4

(60 lecture hours)

Prerequisite:

Accuplacer: EA 60-84 or

Next Gen Accuplacer QAS 265-300

Develops algebraic skills necessary for manipulating expressions and solving equations. Topics in the course include radicals, complex numbers, polynomials, factoring, rational expressions, quadratic equations, absolute value equations and inequalities, systems of linear equations, related applications, and math learning strategies. This course prepares students for College Algebra and Finite Math.
Location(s): Craig; Rangely; Online; Concurrent

MAT 091 APPLIED QUANTITATIVE LAB/1

(15 lecture hours)

Prerequisite:

Accuplacer: EA 30-59 or AR 41 or

Next Gen Accuplacer AR 255-264

Co-requisite: MAT 103, 107,108, or 112

Supports skill development for students registered in MAT 103, MAT 107, MAT 108, MAT 109 or MAT 112. Topics covered in the course include those defined in MAT 103/107/108/109/112 and/or any pre-requisite skills needed by the student.

Location(s): Rangely

MAT 092 QUANT LAB/1

(15 lecture hours)

Prerequisite:

Accuplacer: EA 46-60 or

Next Gen Accuplacer QAS 230-239

Co-requisite: MAT 120, 135, 155

Supports skill development for students registered in MAT 120, MAT 135, MAT 155, or MAT 156. Topics covered in this course include those defined in MAT 120/135/155/156 and/or any pre-requisite skills needed by the student.
Location(s): Rangely

MAT 093 ALGEBRA LAB/1

(15 lecture hours)

Prerequisite:

Accuplacer: EA 80-84 or

Next Gen Accuplacer AAF 235-244

Co-requisite: MAT 121 or MAT 123

Supports skill development for students registered in MAT 121. Topics covered in this course include those defined in MAT 121/123 and/or any pre-requisite skills needed by the student.
Location(s): Rangely; Online

MAT 103 MATH FOR CLINICAL CALCULATIONS/3

(45 lecture hours)

Prerequisite: MAT 050 or

ACT Math: 19 or

SAT Math: 500 or

Accuplacer: EA 61-120 or

AR 41 with MAT 091 or

EA 30-59 with MAT 091 or

Next Gen Accuplacer AR 265-300

Provides a review of general mathematics, introductory algebra and an opportunity to learn systems of measurement and methods of solving problems related to drug dosage and intravenous fluid administration. It is designed for students in the health disciplines. Topics may include algebra, graphs, measurement and conversion between various systems of measurement.
Location(s): Craig; Online

MAT 107 CAREER MATH/3(45 lecture hours)

Prerequisite: MAT 050 or

ACT Math: 19 or

SAT Math: 500 or

Accuplacer: EA 61-120 or

AR 41 with MAT 091 or

EA 30-59 with MAT 091 or

Next Gen Accuplacer AR 265-300

Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.
Location(s): Rangely; Online; Concurrent

MAT 108 TECHNICAL MATHEMATICS/4

(60 lecture hours)

Prerequisite: MAT 050 or

ACT Math: 19 or

SAT Math: 500 or

Accuplacer: EA 61-120 or

AR 41 with MAT 091 or

EA 30-59 with MAT 091 or

Next Gen Accuplacer AR 265-300

Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.
Location(s): Online

MAT 120 MATHEMATICS FOR LIBERAL ARTS/4 (60 lecture hours) Prerequisite: MAT 050 or ACT Math: 19 or SAT Math: 500 or Accuplacer: EA 61-120 or EA 45-60 with MAT 092 or Next Gen Accuplacer QAS 240-300

Highlights connections between mathematics and the society in which we live and is intended for liberal arts majors. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics.(MA1)
Location(s): Craig; Rangely; Online; Concurrent

MAT 121 COLLEGE ALGEBRA/4 (60 lecture hours) Prerequisite: MAT 055 or ACT Math: 23 or SAT Math: 500 or Accuplacer: EA 85-120 or EA 80-84 with MAT 093 or

Next Gen Accuplacer AAF 245-279

Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. (MA1)
Location(s): Craig; Rangely; Online; Concurrent

MAT 122 COLLEGE TRIGONOMETRY/3

(45 lecture hours)

Prerequisite: MAT 121 or

ACT Math: 24 or

SAT Math: 610 or

Accuplacer: CLM 63-102 or

Next Gen Accuplacer AAF 280-300

Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. (MA1)
Location(s): Craig; Rangely; Online; Concurrent

MAT 123 FINITE MATHEMATICS/4

(60 lecture hours)

Prerequisite: MAT 055 or

ACT Math: 23 or

SAT Math: 500 or

Accuplacer: EA 85-120 or

EA 80-84 with MAT 092

Covers topics including functions, matrix algebra, linear programming, and an introduction to probability and counting techniques. Emphasis is on applications. This course may include other topics such as statistics when time permits. This course is primarily intended for business, life science, or social science majors. (MA1)

Location(s): Online

MAT 125 SURVEY OF CALCULUS/4

(60 lecture hours)

Prerequisite: MAT 121 or

ACT Math: 25 or

SAT Math: 610

Accuplacer: CLM 63-102 or

Next Gen Accuplacer AAF 280-300

Includes derivatives, integrals, and their applications, with attention restricted to algebraic, exponential, and logarithmic functions for business, life science and/or social science majors. (MA1)

Location(s): Online

MAT 135 INTRODUCTION TO STATISTICS/3 (45 lecture hours) Prerequisite: MAT 050 or ACT Math: 19 or SAT Math: 500 or Accuplacer: EA 61-120 or EA 45-60 with MAT 092 or Next Gen Accuplacer QAS 240-300

Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. (MA1)

Location(s): Craig; Rangely; Online; Concurrent

MAT 155 INTEGRATED MATH I/3 (45 lecture hours) Prerequisite: MAT 050 or ACT Math: 19 or SAT Math: 500 or Accuplacer: EA 61-120 or EA 45-60 with MAT 092 or

Next Gen Accuplacer QAS 240-300

Engages students in the concepts underlying elementary level mathematics. The course emphasizes critical thinking and applications. Topics include the structure of number systems, an analysis of numerical operations, set properties, numerical and geometric patterns, and a variety of problem solving skills.

Location(s): Online

MAT 156 INTEGRATED MATH II/3

(45 lecture hours)

Prerequisite: MAT 155

Engages students in the concepts underlying elementary level mathematics. The course emphasizes critical thinking and applications. Topics include probability, statistics, measurement, Euclidean geometry, and algebraic methods.

Location(s): Online

MAT 166 PRE-CALCULUS/5

(75 lecture hours)

Prerequisite: MAT 055 or

ACT Math: 25 or

SAT Math: 610

Accuplacer: CLM 63-102 or

Next Gen Accuplacer AAF 280-300

Extends algebraic concepts and explores the subject of trigonometry. Topics include: polynomial, rational, logarithmic, and exponential functions, trigonometric and inverse trigonometric functions and their graphs, trigonometric identities, and applications. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. (MA1)

Location(s): Online; Concurrent

MAT 201 CALCULUS I/5 (75 lecture hours) Prerequisite: MAT 121 and MAT 122 or ACT

Math: 28 or SAT Math 650 or Accuplacer: CLM 103-120 120 or

Next Gen Accuplacer MAT201 30+

Introduces single variable calculus and analytic geometry. It includes limits, continuity, derivatives, and applications of derivatives as well as indefinite and definite integrals and some applications.(MA1)
Location(s): Rangely; Online; Concurrent

MAT 202 CALCULUS II/5

(75 lecture hours)

Prerequisite: MAT 201

Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. (MA1)
Location(s): Rangely; Online

MAT 203 CALCULUS III/4

(60 lecture hours)

Prerequisite: MAT 202

Focuses the traditional subject matter of the Calculus. Topics include vectors, vector-valued functions, and multivariable calculus including partial derivatives, multiple integrals, line integrals and application.*(MA1)*
Location(s): Online

METEOROLOGY

MET 150 GENERAL METEOROLOGY/4

(45 lecture hours; 30 lab hours)

Provides an introduction to general meteorology and atmospheric sciences. It includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Additionally, the development of weather systems, such as storm systems, hurricanes, weather fronts and cloud development will also be examined. Finally, concepts of climatology will be stressed.*(SC1)*

MINE TRAINING

MIT 101 INEXPERIENCED SURFACE MINER/1

(24 lecture hours)

Teaches students seeking first-time employment in the mining industry as a surface miner. This course follows 30 CFR 48.25 training of new miner requirements. Topics include instruction in such areas as miner rights, health and safety, first aid, transportation, fires and explosions and surface mining methods.
Location(s): Craig

MIT 104 INEXPERIENCED UNDERGROUND MINER/2 (30 lecture hours)

Follows 30 CFR 48.50 training of new miner requirements. Topics include instruction in such areas as miner rights, health and safety, first aid, transportation, fires and explosions and underground mining methods. This course is for students seeking first-time employment in the mining industry as an underground miner.
Location(s): Craig

MIT 201 SURFACE MINER ANNUAL REFESHER /.5 (8 lecture hours)

Complies with MSHA regulations (30 CFR 48.28) for surface miner annual refresher. Topics include mandatory health and safety standards, transportation controls and communication systems, escape and emergency evacuation plans; firewarning and firefighting, ground control; working in areas of highwalls, water hazards, pits, and spoil banks; illumination and night work, first aid, electrical hazards, prevention of accidents, explosives, health, and dust and noise control. This course may be repeated for credit.
Location(s): Craig

MIT 204 8-Hour UNDERGROUND REFRESHER/.5 (8 lecture hours)

Complies with MSHA regulations (30 CFR Part 48.8) for underground miner annual refresher. Topics covered include mandatory health and safety standards, transportation controls and communication systems, barricading, roof or ground control, ventilation plans, first aid, electrical hazards, prevention of accidents,

explosives, mine gases, health, and dust and noise control. The required course time is 8 contact hours to cover required subjects. This course may be repeated for credit.

Location(s): Craig

MULTIMEDIA GRAPHIC DESIGN

MGD 111 ADOBE PHOTOSHOP I /3

(22.5 lecture hours; 33 lab hours)

Concentrates on the high-end capabilities of Adobe Photoshop as an illustration, design and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics and videos. Course competencies and outline follow those set out by the Adobe Certified Associate exam in Visual Communication Using Adobe Photoshop.

Location(s): Online; Concurrent

MUSIC

MUS 120 MUSIC APPRECIATION/3

(45 lecture hours)

Introduces the study of music focusing on intelligent listening skills, the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and genres of various Western, and non-Western historical style periods. (AH1)

Location(s): Rangely; Online

MUS 121 MUSIC HISTORY MEDIEVAL THRU CLASSICAL PERIOD/3 (45 lecture hours)

Provides an historical survey of Western art music from the Middle Ages into the Classical period, including styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. (AH1)

Location(s): Online

MUS 122 MUSIC HISTORY EARLY ROMANTIC PERIOD TO THE PRESENT/3

(45 lecture hours)

Provides an historical survey of Western art music connecting the classical period to the Romantic period and following to the present. This course includes the study of styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. (AH1)

Location(s): Online

NAIL TECHNICIAN

NAT 110 INTRODUCTION TO MANICURES & PEDICURES/3

(15 lecture hours;45 lab hours)

Provides a basic introduction in the proper use of implements used in manicures and pedicures. Theory and practical application of proper set-up, safety, sanitation, nail shapes, anatomy, product knowledge and terminology dealing with manicures and pedicures is covered. Training is done in a classroom or lab setting using models or other techniques.

Location(s): Craig

NAT 111 **INTERMEDIATE MANICURES & PEDICURES/2 (45 lab hours)**

Presents theory and practical application dealing with different types of manicures, pedicures, nail art and massage techniques. Theory and practical application of procedures, products, nail shapes and maintenance of natural nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon (clinical) setting, using models or customer service. Proper sanitation and sterilization as it pertains to all aspect of manicures, pedicures and nail art is taught.

Location(s): Craig

NAT 210 **ADVANCED MANICURES & PEDICURES/2 (45 lab hours)**

Presents theory and practical application dealing with different types of manicures, pedicures massage techniques and nail art. Theory and practical application of procedures, products, nail shapes and maintenance of the natural nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon (clinical) setting, using models or customer service.

Location(s): Craig

NAT 211 **APPLICATION OF ARTIFICIAL NAILS/5 (15 lecture hours;90 lab hours)**

Provides advanced theory and practical application of nail wraps, tip overlays, acrylics and product knowledge to ready the student for employment. Theory and practical application of

removal techniques for artificial nails is covered. Instruction is provided in specialized classes or in supervised salon (clinical) setting using models or customer service. Student preparation for state board licensing examination pertaining to artificial nails is covered.

Location(s): Craig

NAT 275 SPECIAL TOPICS/0.5-12 (contact hours range from 7.5 to 270)

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

Location(s): Craig

NURSING ASSISTANT

NUA 101 NURSE AIDE HEALTH CARE SKILLS/4 (60 lecture hours)

Prerequisite: Accuplacer Scores: Reading 60 and Math 57 or Instructor Approval

Prepares the student to perform the fundamental skills of the nurse aide. Basic nursing skills, communication skills, restorative services, personal care skills, safety and emergency care issues are covered. Includes knowledge and/or principles or asepsis, OSHA and HIPAA regulations. Ethical behaviors, cultural sensitivity and principles of mental health will be addressed, as well as patient/resident rights.

Location(s): Craig; Concurrent

NUA 170 NURSE AIDE CLINICAL EXPERIENCE/1 (30 clinical hours)

Prerequisite: Successful completion of NUA 101.

Applies knowledge gained from NUA 101 to patient care.

Location(s): Craig; Rangely; Concurrent

NURSING

NUR 106 MEDICAL AND SURGICAL NURSING CONCEPTS/7 (51 lecture hours; 13.5 lab hours; 150 clinical hours)

NUR106 is the first medical/surgical nursing course. Building on NUR109, this course provides for the acquisition of basic medical/surgical nursing theory, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered care to a developmentally and culturally diverse adult patient population experiencing various medical/surgical interventions. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the nurse. Application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings.

Location(s): Craig

NUR 109 FUNDAMENTALS OF NURSING/6 (30 lecture hours; 90 lab hrs; 90 clinical hrs)

Introduces the fundamental concepts necessary for safe, patient-centered nursing care to a diverse patient population while integrating legal and ethical responsibilities of the nurse. Introduces caring, critical thinking, the nursing process, quality improvement, and communication used when interacting with patients and members of the interdisciplinary team, and relates evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings providing care to stable patients with common health alterations.

Location(s): Craig

NUR 112 BASIC CONCEPTS OF PHARMACOLOGY/2 (30 lecture hours)

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Overview of the basic principles of pharmacology including major drug classifications and prototypes of commonly used medications. Principles of medication administration include aspects of best practice for safe, quality, patient-centered care. Central points include safety, quality improvement factors in the administration of medications, patient teaching, and variations encountered when administering medications to diverse patient populations across the lifespan.

Location(s): Craig

NUR 121 Success in Nursing School/1

(15 lecture hours)

Addresses success strategies for beginning nursing students. Wil

to optimize success in nursing school, including identifying stress

test taking strategies using critical thinking skills, developing a professional demeanor, exploring the evolving roles of the professional nurse. Additionally, explores the concepts of professionalism and collaboration.
Location(s): Craig

NUR 150 MATERNAL–CHILD NURSING/6

(49.5 lecture hours; 31.5 lab hours; 90 clinical hours)

Provides for the acquisition of maternal/child nursing theory, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, family-centered nursing care to childbearing families and children that is developmentally and culturally appropriate. Incorporates evidence-based practice, standards of practice, quality improvement, and legal and ethical responsibilities of the nurse. Application of knowledge and skills occurs in the nursing skills laboratory and in a variety of maternal/child and pediatric clinical settings.
Location(s): Craig

NUR 169 TRANSITION INTO PRACTICAL NURSING/4 (30 lecture hours; 90 clinical hrs)

Provides the student with a transition into the role of the practical nurse. Emphasis will be placed on distinguishing the practical nurses defined scope of practice related to clinical practice, communication, nursing process, ethical/legal issues and leadership skills. The student practices in the role of the practical nurse in the associated clinical experience.
Location(s): Craig

NUR189 TRANSITION FROM LPN TO ADN/3 (30 lecture hours; 22.5 lab; 22.5 clinical)
Facilitates transition of the LPN to new roles and responsibilities of the ADN, the nursing process, critical thinking, legal and ethical issues in nursing practice, and the nursing care of childbearing families and pediatric clients. Application of knowledge and skills occurs in the laboratory and maternal/child and pediatric clinical settings.
Location(s): Craig

NUR 206 ADVANCED CONCEPTS OF MEDICAL-SURGICAL NURSING I/6.5

(45 lecture hours; 22.5 lab hours; 135 clinical hours)

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Builds on NUR106 focusing on advanced concepts of nursing applied to care of patients with high acuity medical/surgical conditions. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in a variety of healthcare settings. Application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings.
Location(s): Craig

NUR 211 PSYCHIATRIC – MENTAL HEALTH NURSING/4 (40.5 lecture hours; 60 clinical hours)

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common clinical conditions/disorders.
Location(s): Craig

NUR 212 PHARMACOLOGY II/2

(30 lecture hours)

Builds on previously introduced pharmacological concepts and applies that learning to pharmacologic therapy to provide safe, quality, evidence- based nursing care to patients with complex healthcare needs. Focuses on safety and quality improvement factors in the administration of medications within a variety of healthcare systems. Advanced dosage calculations included.
Location(s): Craig

NUR 216 ADVANCED CONCEPTS OF MEDICAL-SURGICAL NURSING II/5

(34.5 lecture hours;120 clinical hours)

Prerequisite: Successful completion of preceding required program coursework or permission of program director.

A continuation of NUR 206, focusing on complex medical/surgical conditions of the high acuity patient. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients experiencing high acuity medical/surgical conditions. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in the acute care and high acuity settings. Application of knowledge and skills occurs in a variety of clinical settings.

Location(s): Craig

NUR 230 TRANSITION TO PROFESSIONAL NURSING PRACTICE/4

(24 lecture hours;105 clinical hours)

A seminar and practice capstone course that provides an integrative experience applying all dimensions of the professional nurse in the care of diverse patient populations across a variety of healthcare settings. All major concepts of the nursing program are addressed. Leadership and the management of multiple patients are emphasized. Application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse.

Location(s): Craig

OUTDOOR STUDIES

OUT 103 Colorado Fourteeners/2

(60 lab hours)

Presents an historical look into the naming and climbing of Colorado`s 14,000 foot peaks. Includes information on the current routes to ascend the peaks. This course includes multi-day hiking trips.

OUT 108 WILDERNESS SURVIVAL SKILLS/3

(90 lab hours)

This course emphasizes the physiological, psychological and practical principles of survival. Survival equipment, wilderness improvising techniques, and wilderness dangers are included.

OUT 110 CAVING 1/1

(30 lab hours)

Introduces the student to the unique cave environment, formation of caves, cave biology, geology, and cave conservation. Reviews caving exploration techniques, caving equipment, caving safety and cave terminology.

OUT 120 ORIENTEERING/1

(30 lab hours)

Become familiar with backcountry navigation. Wilderness travel potential will be expanded by learning the proper use of maps, compass, and other tools.

OUT 136 LEAVE NO TRACE TRAINER/2

(30 lab hours)

Introduces the student to the principles of Leave No Trace and prepares students to teach Leave No Trace curriculum in a variety of outdoor and urban settings. This class is a must for guides, outfitters, outdoor educators, agency employees, scout/youth group leaders, or anyone who cares about minimizing impact on the Colorado backcountry..

OUT 126 MOUNTAIN BIKING/1

(30 lab hours)

Introduces basic mountain biking skills and techniques. The primary emphasis is to gain an understanding of the basic principles of mountain biking. Students develop skills and techniques for all riding situations, review bicycle anatomy, and basic maintenance and repairs.

OUT 129 ICE CLIMBING I/1

(30 lab hours)

Introduces technical (roped) ice climbing, including equipment selection and safety, knots, belaying and climbing, rappelling and climbing safety.
Location(s): Rangely

OUT 131 Rock Climbing I/2

(60 lab hours)

Introduces basic rock climbing, improving dexterity, problem solving skills and the physical work capacity of an individual. Enables the student to gain an understanding of the general principles of climbing; how equipment works and how it is used; basic climbing skills and techniques; safety and climbing etiquette and terminology.

OUT 143 BACKPACKING/2

(60 lab hours)

Provides skills related to wilderness travel and outdoor adventure. Emphasizes knowledge of backpacking skills, survival techniques, proper physical conditioning, route finding, equipment selection, and an understanding and respect for the environment. The course incorporates lecture and discussion sessions followed by a weekend trip in the mountains.
Location(s): Rangely

OUT 167 BASIC SEARCH & RESCUE/3

(45 Contact Hours)

Covers the basic fundamentals required for search and rescue in a wilderness environment. Includes tracking techniques and field trips.
Location(s): Rangely

OUT 201 SCUBA DIVING/1

(30 lab hours)

Provides basic instruction in scuba diving. Focuses on the knowledge and skills related to swimming and snorkeling, diving equipment, communications, the environment, safety, dive tables, and other pertinent information a student needs for safe scuba diving. This course prepares the student for open-water (PADI) certification.
Location(s): Rangely

OUT 202 OPEN WATER DIVER/1

(30 lab hours)

Requires student divers to demonstrate mastery of performance requirements for four (4) different open water dives to become a certified open water diver through the Professional Association of Diving Instructors (PADI).
Location(s): Rangely

OUT 203 Advanced Open Water Diver/2

(15 lecture 30 lab hours)

Prerequisite: Open Water Diver Certified. Extends the student's prior knowledge of diving by introducing them to advanced techniques including: deep diving, underwater navigation, night diving, peak performance buoyancy and multilevel diving. The classroom focuses on developing the student's knowledge, while the pool sessions focus on further developing the student's underwater skills. The open water training dives focus on improving the students diving skills as well as introducing the student to the different types of dives available.
Location(s): Rangely

OUT 204 Rescue Diver/2

(15 lecture 30 lab hours)

Prerequisite: Advanced Open Water Diver Certified. Introduces the student to being able to help others in a rescue scenario. Teaches the student how to recognize problems at all stages in the rescue process. The classroom sessions focus on theories including stress management. The pool sessions focus on the practical application of assisting divers in trouble. The open water sessions focus on realistic situations and includes skills assessment for rescue diver certification through PADI. This fine tunes the student's ability to handle different situations and prepares the student and Divemaster course.
Location(s): Rangely

OUT 205 Dive Master/3
(30 lecture 30 lab hours)
Prerequisite: Rescue Diver Certified and 55 logged dives

Introduces the student to leadership level diving. It trains the student in several areas of focus: dive theory, waterman ship skills, problem solving abilities, role model behavior, student

diver management and certified diver management. These skills are learned and assessed in both pool and classroom sessions for dive master certification through PADI. The practical application phase teaches the student how to deal with student divers as well as certified divers in a leadership role.

Location(s): Rangely

OUT 216 Challenge Course Facilitation/2

(15 lecture hours; 30 lab hours)

Provides approaches to challenge course management including construction and maintenance of high and low elements, facilitation and group dynamics, risk management and safety, and challenge course philosophies.

Location(s): Rangely

OUT 237 PADDLE SPORTS/2

(60 lab hours)

Focuses on the methods and skills of conducting and leading safe lake and river trips in various types of watercraft such as canoes, kayaks, or inflatable boats. Students will learn modern river paddling techniques, trip planning and organization, basic river rescue and safety skills, federal and local permit systems, and minimal impact camping and boating techniques for a river corridor. This course includes a multi-day river expedition.

Location(s): Rangely

PARK RANGER

PRA 100 PARK RANGER ACADEMY I/6

(225 contact hours)

Teaches basic skills and knowledge necessary to perform the duties of a Seasonal Law Enforcement Ranger. Provides students basic knowledge of federal guidelines and competencies of Code of Federal Regulations through lecture and practical applications. Introduces History of the National Park Service, Authority and Jurisdiction, 4th, 5th and 6th Amendment, Officer Liability, along with Federal Criminal Law and Court Procedures. Conforms to National Park Service standards and Federal Law Enforcement Training Center certification requirements.

Location(s): Rangely

PRA 101 PARK RANGER ACADEMY II/ 11

(412.5 contact hours)

Introduces basic and advanced skills and knowledge necessary to perform the entry level duties of a Seasonal Law Enforcement Ranger. This course introduces crime scene investigation, DUI/DWI detection, terrorism recognition, human behavior, radio communication, vehicle searches and patrol skills. Conforms to National Park Service standards and Federal Law Enforcement Training Center (FLETC) certification requirements.

Location(s): Rangely

PRA 103 NPS Basic Tactics/5

(187.5 contact hours)

Identifies and demonstrates basic tactics and active threat concepts, principles and techniques. This course introduces basic skills and knowledge necessary to perform the duties of the Seasonal Law Enforcement Ranger while working in various tactical environments. This course includes basic tactics, control tactics, tactical medicine, electronic control device, Oleoresin Capsicum, active threat, aircraft counter measures and flying armed knowledge and ability. Conforms to National Park Service standards and Federal Law Enforcement Training Center certification requirements.

Location(s): Rangely

PRA 104 Park Ranger Fitness Awareness/3

(112.5 contact hours)

Determines functional capacity in the areas of body composition, speed and agility, flexibility, muscular strength, and cardiovascular endurance given the requirement to perform the Physical Efficiency Battery (PEB). Students must achieve a score at the level of proficiency required by FLETC. Identify the importance of fitness as it relates to the Law Enforcement Ranger and the five elements of fitness. Conforms to National Park Service standards and Federal Law Enforcement Training Center (FLETC) certification requirements.

Location(s): Rangely

PRA 105 NPS Firearms/5 (187.5 contact hours)

Gains knowledge of nomenclature, safety rules and regulations, safe weapons handling, de-

cocking, loading, unloading and transfer of a weapon. The student will demonstrate proficiency in the fundamentals of marksmanship and weapon handling skills as designated by the National Park Service Courses of Fire. Conforms to National Park Service standards and Federal Law Enforcement Training Center (FLETC) certification requirements.
Location(s): Rangely

PRA 107 RANGER DRIVING TACTICS/1

(7.5 lecture hours;15 lab hours)

This course covers the skills, knowledge, and abilities required for operation of Law Enforcement vehicles. Emphasis on defensive driving, and skills used in pursuit situations, both emergency and non-emergency. Students will demonstrate driving techniques.
Location(s): Rangely

PRA 108 NPS DRIVING SKILLS/3

(112.5 contact hours)

Demonstrates emergency response and non-emergence response driving techniques including braking techniques, steering techniques, selecting the appropriate line of travel, and maintaining control of the vehicle. Student will demonstrate proper function, operation, testing, and calibration of basic Radar/Lidar. Conforms to National Park Service standards and Federal Law Enforcement Training Center (FLETC) certification requirements.
Location(s): Rangely

PHILOSOPHY

PHI 111 INTRODUCTION TO PHILOSOPHY/

3 (45 lecture hours)

Introduces significant human questions and emphasizes understanding the meaning and methods of philosophy. Includes human condition, knowledge, freedom, history, ethics, the future, and religion. *(AH3).*
Location(s): Rangely; Online

PHI 112 ETHICS/3

(45 lecture hours)

Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. (AH3).
Location(s): Rangely; Online

PHI 113 LOGIC/3

(45 lecture hours)

Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking. Emphasizes the development of decision-making and problem-solving. *(AH3).*
Location(s): Online

PHI 114 COMPARATIVE RELIGIONS/3

(45 lecture hours)

Introduces the major religions of the Eastern and Western world. Covers Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. Utilizes methods of religious studies to understand the historical development of each religious tradition as well its worldview and teachings. (AH3).
Location(s): Craig; Online

PHI 121 CURRENT ISSUES AND ETHICS IN DENTAL HYGIENE/1 (15 lecture hours)

Prerequisite: Enrollment in the Dental Hygiene Program.

Discusses current issues in dental hygiene and heightens student's awareness of ethical issues and choices for action. Includes a library project and an opportunity to facilitate a discussion.
Location(s): Rangely

PHI 214 PHILOSOPHY OF RELIGION/3

(45 lecture hours)

Focuses on the critical analysis and evaluation of the fundamental concepts, ideas, and implications within religious worldviews. This course includes issues such as the nature of God, other conceptions of ultimate reality, arguments concerning God`s existence, the problem of evil and suffering, faith and reason, metaphysical foundations for ethics, the phenomenon of religious experience, and

religious diversity. (AH3).
Location(s): Online

PHI 218 ENVIRONMENTAL ETHICS/3

(45 lecture hours)

Analyzes theories of the value of the natural world. Topics may include the relation between scientific and moral principles; theories of the moral worth of persons, animals, plants, and other natural objects; historical, religious, and cultural influences on conceptions of nature;

alternative accounts of human relationships and responsibilities to nature; and the connection between moral and political values and economic policies. (AH3)
Location(s): Rangely; Online

PHYSICS

PHY 105 CONCEPTUAL PHYSICS W/LAB/4 (45 lecture hours; 30 lab hours)

Focuses on mechanics, heat, properties of matter, electricity and magnetism, light and modern physics. Incorporates laboratory experience.(*SC1)*
Location(s): Online

PHY 111 PHYSICS: ALGEBRA BASED I WITH LAB/5 (60 lecture hours; 30 lab hours)
Prerequisite: MAT 121.

Covers the physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. Major topics include kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, and rotational mechanics. This course may also include topics relating to simple harmonic motion and traveling and standing waves. (SC1)
Location(s): Rangely; Online

PHY 112 PHYSICS: ALGEBRA BASED II WITH LAB/5 (60 lecture hours; 30 lab hours)
Prerequisite: PHY 111.

Covers the physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. DC circuits involving resistors, capacitors, and batteries will be covered. Also covered are electromagnetic waves and geometric optics. This course may also include topics relating to simple harmonic motion, traveling and standing waves, and AC circuits. (SC1)
Location(s): Rangely; Online

PHY 211 PHYSICS: CALCULUS-BASED I WITH LAB/5 (45 lecture hours; 60 lab hours)

Prerequisite: MAT 201.

Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. (SC1)
Location(s): Online

PHY 212 PHYSICS: CALCULUS-BASED II WITH LAB/5 (45 lecture hours; 60 lab hours)
Prerequisite: PHY 211.

Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. (SC1)
Location(s): Online

POLITICAL SCIENCE

POS 105 INTRODUCTION TO POLITICAL SCIENCE/3 (45 lecture hours)

Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments, and processes, and international relations.(*SS1)*
Location(s): Online

POS 111 AMERICAN GOVERNMENT/3

(45 lecture hours)

Includes the background of the U.S. Constitution, the philosophy of American government, general principles of the Constitution, federalism, and civil liberties. Examines public opinion and citizen participation, political parties, interest groups, and the electoral process, and the structure and

functions of the national government. *(SS1)*
Location(s): Online; Concurrent

POS 225 COMPARATIVE GOVERNMENT/3

(45 lecture hours)

Examines domestic political systems, developments, themes, and events across countries and regions while applying the comparative method to identify similarities and differences. (SS1)

PSYCHOLOGY

PSY 101 GENERAL PSYCHOLOGY I/3

(45 lecture hours)

Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning and memory.(*SS3)*
Location(s): Craig; Rangely; Online

PSY 102 GENERAL PSYCHOLOGY II/3

(45 lecture hours)

Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. (SS3)
Location(s): Craig; Rangely; Online

PSY 106 HUMAN RELATIONS/3

(45 lecture hours)

Emphasizes the development and practice of effective interpersonal skills on and off the job.
Location(s): Craig

PSY 205 PSYCHOLOGY OF GENDER/3

(45 lecture hours)

Examines gender comparisons in work, courtship, family life, and sexual behavior throughout the life span.*(SS3)*
Location(s): Online

PSY 207 INTRODUCTION TO FORENSIC PSYCHOLOGY/3 (45 lecture hours)

Introduction to Forensic Psychology is a course in an overview of Forensic Psychology. As such it explores both current research and practice in five areas. These areas are police psychology, criminal psychology, victimology, correctional psychology and the interface of psychology and the courts. The course facilitates an understanding of the numerous careers related to forensic psychology, how to prepare for them and current research and practice in each of the five broad areas of forensic psychology.

PSY 217 HUMAN SEXUALITY/3

(45 lecture hours)

Surveys physiological, psychological, and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health.*(SS3)*
Location(s): Rangely; Online

PSY 226 SOCIAL PSYCHOLOGY/3

(45 lecture hours)

Prerequisite: 3 credit hours of general psychology or general sociology or instructor permission.

Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. (SS3)
Location(s): Online

PSY 227 PSYCHOLOGY OF DEATH AND DYING/3 (45 lecture hours)

Examines the philosophies of life and death, emphasizing dying, death, mourning, and the consideration of one`s own death.*(SS3)*
Location(s): Craig; Rangely; Online

PSY 235 HUMAN GROWTH & DEVELOPMENT/3 (45 lecture hours)

Examines human development from conception through death emphasizing physical, cognitive, emotional and psychosocial factors.*(SS3).*
Location(s): Craig; Rangely; Online

PSY 237 CHILD AND ADOLESCENT PSYCHOLOGY/3 (45 lecture hours)

Explores human development from conception through adolescence, emphasizing physical cognitive, emotional, and psychosocial factors.
Location(s): Online

PSY 249 ABNORMAL PSYCHOLOGY/3

(45 lecture hours)

Prerequisite: 3 credits of general psychology or Instructor permission.

Examines abnormal behavior and its classification, causes, treatment, and prevention.*(SS3)*
Location(s): Craig; Online

RANGE MANAGEMENT

RAM 205 RANGE MANAGEMENT/3

(45 lecture hours)

Presents the historical and current status of the range livestock industry. Management principles for private and public rangelands, range plant identification and range plant communities are covered.

RECREATION

REC 211 OUTDOOR LEADERSHIP/2

(15 lecture hours; 37.5 internship/field

study hours)

Introduces the development, acquisition, and application of outdoor leadership skills and knowledge. Focuses on the latest information philosophy, and techniques necessary to safely conduct outdoor programs and expeditions as an outdoor leader. Skills are applied under actual field conditions. Emphasizes minimal impact camping, wilderness ecology, judgment and decision making, group dynamics and trip logistics. These skills enhance effectiveness as an outdoor leader.
Location(s): Rangely

SMALL BUSINESS MANAGEMENT

SBM 101 STARTING A SMALL BUSINESS/1 (15 lecture hours)

Provides a brief overview of various topics related to starting a small business. Some topics are types of businesses, location, image, insurance, permits, and licenses.
Location(s): Online

SBM 106 RECORDKEEPING FOR A SMALL BUSINESS/1 (15 lecture hours)

Provides an overview of recordkeeping for a small business. Students learn basic bookkeeping skills and key recordkeeping requirements.
Location(s): Online

SBM 108 MARKETING FOR A SMALL BUSINESS/1 (15 lecture hours)

Provides a brief overview of the marketing functions applied to a small business. Topics include planning a marketing strategy, promoting a business, competitive analysis, and customers and prospects.
Location(s): Online

SBM 112 FINANCING A SMALL BUSINESS/1 (15 lecture hours)

Provides a brief overview of the basics of financing a small business. Topics include sources of capital, types of business loans, and maintenance of cash flow.
Location(s): Online

SOCIOLOG

SOC 101 INTRODUCTION TO SOCIOLOGY I/3 (45 lecture hours)

This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (SS3)
Location(s): Craig; Rangely; Online

SOC 102 INTRODUCTION TO SOCIOLOGY II/3 (45 lecture hours)

This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (SS3)
Location(s): Craig; Online

SOC 205 SOCIOLOGY OF FAMILY DYNAMICS/3 (45 lecture hours)

Prerequisite: SOC 101 or consent of the instructor.

Offers a critical exploration of marriage, family and kinship. It examines the family as an institution and how social, cultural and personal factors influence family relations locally and globally. Explores the stability and evolution of the family, along with current trends and a range of family forms. (SS3)
Location(s): Online

SOC 207 ENVIRONMENTAL SOCIOLOGY/3

(45 lecture hours)

Examines how humans' relationship with the environment is mediated by social stratification. Key topic areas include industrial and economic growth versus sustainability, natural resources development and management, cultural values, social movements, and comparative perspectives on people's relationship to the environment. (SS3)
Location(s): Rangely

SOC 215 CONTEMPORARY SOCIAL PROBLEMS/3 (45 lecture hours)

Investigates current social issues that result in societal problems. Focuses on numerous areas including, but not limited to, the loss of civil liberties, concentration of media ownership, gender discrimination, hate crimes, poverty, hunger, environmental degradation, racism and prejudice, as well as social change. Addresses ways to ameliorate these social ills. (SS3)
Location(s): Online

SOC 216 SOCIOLOGY OF GENDER/3

(45 lecture hours)

Examines major trends and theoretical approaches within the field of sociology of gender including the impact of intersecting social markers such as race, class, sexuality and gender identities. Addresses gender performance, stratification and inequalities in micro and macro settings in the U.S. Focuses on social movements relating to identities and institutional inequalities. (SS3)
Location(s): Craig

SOC 231 THE SOCIOLOGY OF DEVIANT BEHAVIOR/3 (45 lecture hours)

Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. (SS3*)*
Location(s): Rangely; Online

SOC 237 SOCIOLOGY OF DEATH AND DYING/3 (45 lecture hours)

Prerequisite: ENG 090 or testing into ENG 121.

Explores the socially constructed nature of how individuals and societies interact with death and dying. Examines how individuals experience death and dying based on their social location. Analyzes diversity in grief practices related to death. (SS3)
Location(s): Craig

SPANISH

SPA 101 CONVERSATIONAL SPANISH I/3

(45 lecture hours)

Offers beginning students the skills necessary to understand and speak Spanish. The material includes basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

SPA 102 CONVERSATIONAL SPANISH II/3

(45 lecture hours)

Prerequisite: SPA 101 or permission of instructor.

Offers students the skills necessary to understand and speak Spanish. The material continues to cover basic conversations patterns, expressions, and grammar.

SPA 111 SPANISH LANGUAGE I/5

(75 lecture hours)

Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.
Location(s): Online; Concurrent

SPA 112 SPANISH LANGUAGE II/5

(75 lecture hours)

Prerequisite: SPA 111 or permission of instructor.

Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.
Location(s): Online

SPA 115 SPANISH FOR THE PROFESSIONAL I/3 (45 lecture hours)

Prerequisite: College Level Reading.

Introduces students to a working knowledge of the target language, cultural behaviors and values useful in various professional fields such as health care, law enforcement, bilingual education, business, and others.
Location(s): Online

SPA 211 SPANISH LANGUAGE III/3

(45 lecture hours)

Prerequisite: SPA 112 or instructor permission

Continues Spanish Language II in the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish language. This course is conducted predominantly in Spanish. (AH4)
Location(s): Online; Concurrent

SPA 212 SPANISH LANGUAGE IV/3

(45 lecture hours)

Prerequisite: SPA 211 or instructor permission

Continues Spanish Language III in the development of increased functional proficiency at intermediate mid-level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish language. This course is conducted predominantly in Spanish. (AH4)
Location(s): Online

THEATRE

THE 105 THEATRE APPRECIATION/3

(45 lecture hours)

Provides an opportunity to discover, analyze, and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism, and theory. (AH1)
Location(s): Online

WELDING

WEL 100 SAFETY FOR WELDERS/1

(15 lecture hours)

Covers the hazards of welding on health and safety, locating essential safety information from a code or other standard and identifying and applying shop safety procedures.

WEL 121 STRUCTURAL WELDING/3

(90 contact hours)

Covers theory and practice in oxy-acetylene processes with emphasis toward AWS welder qualification with mild steel electrode E-7018 welding in the horizontal and vertical position.
Location(s): Concurrent

WEL 124 INTRODUCTION TO GAS TUNGSTEN ARC WELDING/4 (90 contact hours)

Prerequisite or Co-Requisite: WEL 100 or instructor permission

Covers welding in all positions and on various joint configurations using the GTAW (tig) welding process on carbon steel, stainless steel and aluminum. Students should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.

Location(s): Concurrent

WEL 125 INTRODUCTION TO GAS METAL ARC WELDING/4 (90 contact hours)

Prerequisite or Co-Requisite: WEL 100 or instructor permission

Covers welding in all positions and on various joint configurations using the GMAW(mig) welding process on carbon steel, stainless steel and aluminum. Students should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.

WEL 130 MAINTENANCE WELDING/2 (45 contact hours)

Prerequisite or Co-Requisite: WEL 100 or instructor permission

Gives the student a basic understanding of the oxyacetylene cutting and arc welding process and introduction to the skills an techniques used to develop fillet and groove welds. Students will be introduced to oxyacetylene, shielded, gas metal arc welding equipment set up, and various welding techniques. Safety will be stressed during the course.

Newly Added Course Descriptions

ACC 280 INTERNSHIP/3
(90 contact hours)
Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.
Location(s): Craig

ASE 170 LABORATORY EXPERIENCE I/1
(37.5 contact hours)
Continues to build upon the principles that are expected to be understood by students.
Location(s): Craig

ASE 171 LABORATORY EXPERIENCE II/1
(37.5 contact hours)
Continues to build upon the principles that are expected to be understood by students.
Location(s): Craig

COM 130 COMMUNICATION AND POPULAR CULTURE: GT-AH1/3
(45 lecture hours)
Introduces four key theoretical models for examining popular culture: Narrative Theory, Rhetorical Theory, Gender Theory, and Critical Race Theory. Emphasis is on popular American media texts, including books, comics/graphic novels, films, music, and television. This is a statewide Guaranteed Transfer course in the GT-AH1 category.
Location(s): Concurrent

DEH 150 DENTAL LASERS: THEORY AND PRACTICE/1
(15 lecture hours)
Develops knowledge related to the use of diode lasers in dental hygiene treatment. Introduction to the physics of laser technology with safe integration into the dental hygiene clinical setting.
Location(s): Rangely

EQT 140 RANCH HOURSE VERSATILITY I/3
(45 lecture hours)
Offers a riding intensive course designed to train the horse in the ranch horse versatility competitive events. Students will develop skills in the working cow horse, reining, ranch cutting, ranch trail, conformation, and ranch pleasure events.
Location(s): Rangely

OUT 116 RIVER ORIENTATION/2
(30 lecture hours)

Emphasizes camp and travel skills in whitewater river environments as a self-contained group. Areas of study include boat handling skills, safety procedures, ecology, geology, geography, safe and efficient travel, Leave No Trace principles, and group dynamics.
Location(s): Rangely

GER 111 GERMAN LANGUAGE I/5
(75 lecture hours)
Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.
Location(s): Online

GEY 280 INTERNSHIP: FIELD PALEONTOLOGY/3
(45 contact hours)
Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.
Location(s): Craig

SCI 155 INTEGRATED SCIENCE I - PHYSICS AND CHEMISTRY WITH LAB: GT-SC1/4
(45 lecture hours; 30 lab hours)
Examines the nature of energy and matter, their interactions and changes, and the application of fundamental concepts to the study of our natural world. These concepts will be explored in hands-on laboratory experiments. This course integrates the fundamental concepts and ideas about the nature of physics and chemistry with the natural world. This is a statewide Guaranteed Transfer course in the GT-SC1 category.
Location(s): Online

SCI 156 INTEGRATED SCIENCE II - EARTH AND LIFE SCIENCE WITH LAB: GT-SC1/4
(45 lecture hours; 30 lab hours)
Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category.
Location(s): Online

WTG 100 INTRODUCTION TO WIND INDUSTRY/3
(45 lecture hours)
Introduces students to the wind power generation industry. Topics covered will include physics of wind energy, various sizes and types of wind turbines, reading wind maps for finding the best wind locations. Students will also engage in discussions of the impact of the wind industry on social, environmental, economic, and political issues.
Location(s): Online

ASL 101 BASIC SIGN LANGUAGE I/3
(45 lecture hours)
Provides students with the basic knowledge of communicating with the deaf community. Students will develop basic vocabulary and conversational skills and will be introduced to aspects of the deaf culture and community.
Location(s): Online

BIO 221 BOTANY WITH LAB: GT-SC1/5
90 hours (LEL 4:1)
Covers plants, emphasizing photosynthetic pathways, form and function, reproduction, physiology, diversity, and evolution. This course requires mandatory hands-on laboratory and research experience and is designed for biology majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category.
Location(s): Online

CAD 100 PRINT READING FOR COMPUTER AIDED DRAFTING/3
(45 lecture hours)

Covers linetype identification, use of lineweights, file management, prototype/template creation using AutoCAD. Covers interpretation of industry standards in dimensioning, symbology, drawing notes, scales, and reading working drawings. Architecture, engineering, design related, civil/survey, manufacturing, HVAC, and welding are industries discussed in this course.
Location(s): Online

CAD 101 COMPUTER AIDED DRAFTING/2D I/3
(45 lecture hours)
Focuses on basic computer aided drafting skills using the AutoCAD software. Includes file management, Cartesian coordinate system & dynamic input, drawing templates, drawing aids, linetype and lineweights, layer usage, drawing & editing geometric objects, polylines & splines, array, text applications, creating tables, basic dimensioning and Help access.

CIS 220 FUNDAMENTALS OF UNIX/3
(45 lecture hours)
Explores the structure and fundamentals of the Unix operating system including the file system and file processing, various utility programs, shell, multi-user operation, text processing, and communications.
Location(s): Online

CNG 120 A+ CERTIFICATION PREPARATION/3
(45 lecture hours)
Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.
Location(s): Online

CNG 124 NETWORKING I: NETWORK +/3
(45 lecture hours)
Provides students with the knowledge necessary to understand, identify and perform necessary tasks involved in supporting a network. Covers the vendor-independent networking skills and concepts that affect all aspects of networking, such as installing and configuring the TCP/IP. This course also prepares students for the Networking II: Network + course.
Location(s): Online

CNG 125 NETWORKING II: NETWORK +/3
(45 lecture hours)
Continues to provide students with the knowledge necessary to implement and support a network. Focuses on the vendor-independent networking skills and concepts that affect all aspects of networking. The Networking I and II: Network + courses prepare students for the Network + certification.
Location(s): Online

CNG 131 PRINCIPLES OF INFORMATION ASSURANCE/3
(45 lecture hours)
Provides skills and knowledge required to survey key issues associated with protecting information assets, determine the levels of protection and response to security incidents, and design a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. Students learn to inspect and protect information assets, detect and react to threats to information assets, and examine pre- and post-incident procedures, and technical and managerial responses. Students learn about information security planning and staffing functions.
Location(s): Online

CNG 132 NETWORK SECURITY FUNDAMENTALS/3
(45 lecture hours)
Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography

basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.
Location(s): Online

CNG 133 NETWORK SECURITY: FIRE WALLS AND INTRUSION DETECTION AND NETWORK SECURITY/3
(45 lecture hours)
Teaches students the basics of network firewall security. It covers basic installation techniques, discusses how to make an intelligent choice of firewall technology, and presents basic firewall troubleshooting.
Location(s): Online

CNG 257 NETWORK DEFENSE AND COUNTER MEASURES/3
(45 lecture hours)
Examines the tools, techniques and technologies used in the technical securing of information assets. This course provides in-depth information of the software and hardware components of Information Security and Assurance. Topics include firewall configurations, hardening Unix and NT servers, Web and distributed systems security and specific implementation of security modes and architectures. The curriculum maps to the Security Certified Network Professional (SCP) Network Defense and Countermeasures exam.
Location(s): Online

CNG 260 CISCO NETWORK ASSOCIATE I/5
(75 lecture hours)
Introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. Includes IP addressing and fundamentals of Ethernet concepts, media and operations.
Location(s): Online

COM 217 GROUP COMMUNICATION/3
(45 lecture hours)
Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation.
Location(s): Online

COM 225 ORGANIZATIONAL COMMUNICATION/3
(45 lecture hours)
Focuses on the role of communication theory and skills as they apply to business and organizational settings. Topics include organizational and leadership models, effective communication skills with peers, superiors, and subordinates, environmental factors impacting communication, and interviewing skills.
Location(s): Online

HPR 123 INTRODUCTION TO HEALTH CARE/2
(30 lecture hours)
Introduces health sciences with an overview of the five pathways that make up the health science cluster. The course addresses the foundation standards including health maintenance, employability skills, teamwork, healthcare systems, communications, and legal issues in healthcare.
Location(s): Online

HPR 124 HEALTH CAREER PRACTICES/2
(30 lecture hours)
Introduces the concepts and skills needed for a career in health care incorporating foundational theory with technical skills. The course focuses on health occupations, health settings, careers, and principles of patient care; concepts of ethics and bioethics; safety practices including infection control, personal and environmental safety, and emergency procedures and protocols; common and emerging diseases and disorders. The course consists of fundamental skills of basic care and reviews, medical math, cardiopulmonary resuscitation (CPR), and first aid.
Location(s): Online

HPR 208 MEDICAL RECORD TERMINOLOGY/2
(30 lecture hours)
Demonstrates knowledge of medical terminology with emphasis on combining complex prefixes, roots and suffixes. Course includes pathophysiology for major body systems. Course includes terms related to diagnostic tools per body systems, as well as commonly used medical abbreviations. Course applies medical terminology knowledge in interpreting the medical record.
Location(s): Online

MAN 241 PROJECT MANAGEMENT IN ORGANIZATIONS/3
(45 lecture hours)
Investigates the concepts and applicability of project management within organizations. It examines the unique nature of the project management structure including its emphasis on integrated decision making throughout a lifecycle of a product from the planning, implementing, monitoring, and controlling phases. Emphasis is on the processes of initiating, planning, executing, controlling, and closing activities of project management.
Location(s): Online

MAN 243 PROJECT MANAGEMENT IN ACTION/3
(45 lecture hours)
Introduces major activities and tools in Project Management related to resources, risk and quality. There is a heavy focus to provide how to manage the human element of project management. Specific Project Management tools and methodologies are introduced and used.
Location(s): Online

MGD 116 TYPOGRAPHY I/3
(45 lecture hours)
Introduces the history and concepts of typography as applied to graphic communications. Explores appropriate use of typography in a variety of design applications, emphasizing the basic design principles of typographic compositions and typesetting. Covers type recognition and typographic terms.
Location(s): Online

MGD 164 DIGITAL VIDEO EDITING I/3
(45 lecture hours)
Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.
Location(s): Online

PSY 231 POSITIVE PSYCHOLOGY: GT-SS3/3
(45 lecture hours)
Focuses on human strengths and explores strengths-based research and concepts of life satisfaction, well-being, happiness, helpfulness, resiliency, post-traumatic growth, and improving emotional, psychological, and social functioning. This is a statewide Guaranteed Transfer course in the GT-SS3 category.
Location(s): Online

PSY 240 HEALTH PSYCHOLOGY: GT-SS3/3
(45 lecture hours)
Focuses on an overview of the scientific study of attitudes, behaviors, and personality variables related to health, illness, and bodily systems. The course emphasizes the interaction of biological, psychological, and social factors that cause illness and influence its treatment and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category.
Location(s): Online

AAA 099 ACTIVE LEARNING SKILLS/1
(15 lecture hours)
Allows students a variety of experiences in tutorial and enhanced learning activities in the reading, writing, math, and ESL. Topics include academic support, learning styles, and contextualized learning. Students will acquire

reading, English composition, English as a Second Language and/or mathematics skills through the use of course tutorial software and individualized instruction.
Location(s): Online

ACC 101 FUNDAMENTALS OF ACCOUNTING/3
(45 lecture hours)
Introduces accounting fundamentals with emphasis on the procedures and practices used in business organizations. Major topics include the accounting cycle for service and merchandising companies, including end-of-period reporting.
Location(s): Online

ACC 132 TAX HELP COLORADO/2
(30 lecture hours)
Examines the preparation of individual, federal, and state income tax returns within the guidelines and limitations set forth by the Tax Help Colorado program and IRS guidelines. Emphasis is placed on form preparation with the use of tax software.
Location(s): Online

ANT 225 ANTHROPOLOGY OF RELIGION GT:SS3/3
(45 lecture hours)
Explores the culturally universal phenomenon of religion including cross-cultural varieties of beliefs in the supernatural and the religious rituals people employ to interpret and control their worlds. This is a statewide Guaranteed Transfer course in the GT-SS3 category.
Location(s): Online

BUS 120 INTRODUCTION TO E-COMMERCE/3
(45 lecture hours)
Provides an introduction to electronic commerce and the business trends in the dynamic e-commerce environment. This course covers the definition of e-commerce, technology and software requirements, security issues, electronic payment and marketing strategies. This course focuses on what to expect in business-to consumer (B2C) and business-to-business (B2B) e-commerce markets when creating an e-business.
Location(s): Online

CIS 115 INTRODUCTION TO COMPUTER INFORMATION SYSTEMS/3
(45 lecture hours)
Provides an overview of computer information systems and their role in society. This course emphasizes terminology and the identification of computer components and systems used in personal and business environments. This course discusses the evaluation of systems and measures that can be applied to protect them.
Location(s): Online

CIS 135 COMPLETE WORD PROCESSING (SOFTWARE PACKAGE)/3
(45 lecture hours)
Introduces basics of word processing software to create, edit, format, and print documents as well as advanced features to enhance documents. This course includes working with images, creating/using styles, formatting multi-page documents using advanced features of headers/footers and section breaks, integrating software to create and format tables and charts, using mail merge, and creating documents with columns.
Location(s): Online

CIS 145 INTRODUCTION TO DESKTOP DATABASE/3
(45 lecture hours)
Explores an array of database skills. Includes table, query, form, and report creation and modification. Also includes application integration.
Location(s): Online

CIS 240 DATABASE DESIGN & DEVELOPMENT/3
(45 lecture hours)
Introduces the basic concepts of relational databases, data storage, and retrieval. Covers

database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.
Location(s): Online

CIS 267 MANAGEMENT OF INFORMATION SYSTEMS/3
(45 lecture hours)
Introduces the concepts and techniques of managing computer-based information resources. Includes hardware, software, personnel, control techniques, and the placement and integration of information systems resources within the organization.
Location(s): Online

CIS 268 SYSTEMS ANALYSIS AND DESIGN I/3
(45 lecture hours)
Introduces the student to the materials, techniques, procedures, and human interrelations involved in developing computer information systems. Includes the systems approach, fact gathering techniques, forms design, input/output, file design, file organization, various charting techniques, system audits on controls, project management, implementation, and evaluation.
Location(s): Online

CNG 101 NETWORKING FUNDAMENTALS/3
(45 lecture hours)
Introduces network fundamentals using the OSI (Open Systems Interconnection) model and TCP/IP (Transmission Control Protocol/Internet Protocol) suite, fundamentals of Ethernet, IP addressing, and building simple LANs (Local Area Networks).
Location(s): Online

CNG 102 LOCAL AREA NETWORKS/3
(45 lecture hours)
Introduces Local Area Networking. Focuses on discussions and demonstrations of planning, installing, and supporting networks.
Location(s): Online

CNG 211 WINDOWS CONFIGURATION: (OS)/3
(45 lecture hours)
Provides students with the knowledge and skills necessary to address the implementation and desktop support needs of customers who are planning to deploy and support Microsoft Windows Client OS in a variety of network operating system environments.
Location(s): Online

CRJ 125 POLICING SYSTEMS/3
(45 lecture hours)
Examines policing in the United States, including historical foundations, emerging issues, and the relationship between law enforcement and the community. The various types of law enforcement agencies, their administrative practices, and the behavior of those involved in the delivery of police services are examined from the perspective of democratic values, racial and ethnic diversity, and societal perceptions of police effectiveness. Career requirements, including current and future trends, are also presented.
Location(s): Online

CRJ 127 CRIME SCENE INVESTIGATION/3
(45 lecture hours)
Focuses on basic procedures in crime scene management to include photography and preparing initial reports and sketches. Includes processing evidence and related criminalistic procedures. Covers interviewing suspects, witnesses and victims to include the recording of identifications and descriptions. Incorporates lab and lecture.
Location(s): Online

CRJ 135 JUDICIAL FUNCTION/3
(45 lecture hours)
Provides an overview of the structure and function of the dual American judicial system and the behavior of actors (judges/justices, lawyers, law clerks, interest groups, etc.) within the system. Emphasis is placed on the organization and administration of state and

federal courts, criminal court procedures, juries, selection of judges, decision-making behavior of juries, judges and justices, and the implementation and impact of judicial policies.
Location(s): Online

CRJ 145 CORRECTIONAL PROCESS/3
(45 lecture hours)
Examines the history of corrections in America from law enforcement through the administration of justice, probation, prisons, correctional institutions, and parole. This course examines the theories, rationales for punishment, and the political system in which corrections, as a component part of the criminal justice system, needs to operate. The course emphasizes legal, sociological, psychological, and other interdisciplinary approached that effect the operation of a correctional system.
Location(s): Online

CRJ 205 PRINCIPLES OF CRIMINAL LAW/3
(45 lecture hours)
Focuses on common law and statutory law crimes, the Model Penal Code, elements defining crimes and penalties, defenses to criminal accusations, and definitions and distinctions between criminal and civil law.
Location(s): Online

CRJ 210 CONSTITUTIONAL LAW/3
(45 lecture hours)
Focuses on the powers of government as they are allocated and defined by the United States Constitution. The course includes intensive analysis of United States Supreme Court decisions.
Location(s): Online

CRJ 220 HUMAN RELATIONS AND SOCIAL CONFLICT/3
(45 lecture hours)
Exploration of the environmental, organizational and socio-psychological dimensions of social control. Includes the study of individual attitudes, beliefs and behavior involved in role conflicts, community relations and conflict management in the social structure.
Location(s): Online

CRJ 230 CRIMINOLOGY/3
(45 lecture hours)
Provides an introduction to the study of crime, understanding the causes of crime, and examines, theoretical frameworks and theories to explain criminal behavior. Examination of the nature of crime, crime victimization, crime patterns, types of crime, crime statistics, and criminal behavior is also included.
Location(s): Online

CRJ 236 CRJ RESEARCH METHODS/3
(45 lecture hours)
Focuses on the formulation of research questions covering crime and justice, research designs, data collection, and the interpretation and reporting of these data in criminological and justice-system settings. Course content also includes experimental and non-experimental research designs, probability and non-probability sampling techniques, and construction of scales and indexes for research purposes.
Location(s): Online

CRJ 257 VICTIMOLOGY/3
(45 lecture hours)
Demonstrates to the student the role the crime victim plays in the criminal justice system. The traditional response that a crime victim receives from the system will be studied and the psychological, emotional and financial impact these responses have on victimization will be analyzed.
Location(s): Online

CSC 105 COMPUTER LITERACY/3
(45 lecture hours)
Introduces students to current technologies. Special focus on ensuring students become technologically competent and computer

literate. Emphasis is placed on technology fundamentals and terminology through the evaluation of hardware and software. Provides students with a working knowledge of operating system use, file management and security. Introduces the internet as a research and communication tool. Application software is covered to ensure the fundamental computer skills for personal, academic and business use are obtained.
Location(s): Online

CSC 119 INTRODUCTION TO PROGRAMMING: (PROGRAMMING LANGUAGE)/3
(45 lecture hours)
Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.
Location(s): Online

CSC 161 COMPUTER SCIENCE II: (LANGUAGE)/4
(60 lecture hours)
Continues algorithm development and problem solving techniques not covered in Computer Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.
Location(s): Online

CSC 220 INTRODUCTION TO MICROSOFT VISUAL BASIC.NET/3
(45 lecture hours)
Provides students with the knowledge and skills needed to develop applications in Microsoft Visual Basic .NET for the Microsoft .NET platform. Focuses on user interfaces, program structure, language syntax, and implementation details. This is the first course in the Visual Basic .NET curriculum and serves as the entry point for other .NET courses.
Location(s): Online

CSC 230 C PROGRAMMING: PLATFORM/3
(45 lecture hours)
Prepares students to be a better programmer using the C programming language. C is a mid-level language whose economy of expression and data manipulation features allows a programmer to deal with the computer at a low level. The goal is to learn skills that are usable in many languages and understand what is happening at the machine level. The student should already understand the control structures selection, iteration, and subroutines (functions/methods).
Location(s): Online

CSC 240 JAVA PROGRAMMING/3
(45 lecture hours)
Introduces the Java Platform, Standard Edition (Java SE), to develop Graphical User Interface (GUI) applications. Language constructs will include loops, conditionals, methods, and arrays. The code will incorporate event and exception handling, File I/O, and Object-Oriented Programming (OOP) concepts.
Location(s): Online

CWB 110 INTRODUCTION TO WEB AUTHORING/3
(45 lecture hours)
Explores the complete set of web authoring skills using HTML and/or other languages. The course covers links, backgrounds, controlling text and graphic placement, tables, image maps and forms.
Location(s): Online

CWB 130 WEB EDITING TOOLS: (EDITOR)/3
(45 lecture hours)
Teaches the use of tools for Web page design and development. These tools are designed to make the creation of Web pages easy and consistent. With the use of editing tools, students will be able to build Web pages making use of forms, tables, frames, templates, Cascading Style Sheets (CSS), and layers. The student will also be able to easily publish and manage a Web site once it is created.
Location(s): Online

ECO 201 PRINCIPLES OF MACROECONOMICS: GT-SS1/3
(45 lecture hours)
Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category.
Location(s): Online

ECO 202 PRINCIPLES OF MICROECONOMICS: GT-SS1/3
(45 lecture hours)
Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category.
Location(s): Craig; Online

FRE 111 FRENCH LANGUAGE I/5
(75 lecture hours)
Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.
Location(s): Online

FRE 112 FRENCH LANGUAGE II/5
(75 lecture hours)
Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.
Location(s): Online

FRE 211 FRENCH LANGUAGE III: GT-AH4/3
(45 lecture hours)
Continues the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the French language. This course is conducted predominantly in French. This is a statewide Guaranteed Transfer course in the GT-AH4 category.
Location(s): Online

FRE 212 FRENCH LANGUAGE IV: GT-AH4/3
(45 lecture hours)
Continues the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the French language. This course is conducted predominantly in French. This is a statewide Guaranteed Transfer course in the GT-AH4 category.
Location(s): Online

JOU 225 NEW MEDIA/3
(45 lecture hours)

Explores techniques and approaches in the latest delivery methods for internet-based journalism. Students explore digital media outlets such as blogs, audio and video podcasts, e-zines and social networks. Students create journalistic pieces for internet-based media, focusing on best journalistic practices, ethics of internet media, and technology emergence effecting digital journalism. Concepts in video production, photography, writing, sourcing, editing and relevant skills necessary for the citizen journalist are introduced. Students create components for online news dissemination.
Location(s): Online

JOU 231 INTRODUCTION TO PUBLIC RELATIONS/4
(60 lecture hours)
Focuses on public relations and its role for the individual, the non-profit organization, business and government; research methodology, principles and practices necessary to become a public relations practitioner; and media channels best suited to a persuasive appeal or crisis.
Location(s): Online

JOU 241 FEATURE AND MAGAZINE WRITING/3
(45 lecture hours)
Focuses on trade, consumer, and technical publications, manuscript development with emphasis on nonfiction, submission techniques, and trends affecting the marketing of manuscripts both in print and digital media.
Location(s): Online

MAN 128 HUMAN RELATIONS IN ORGANIZATIONS/3
(45 lecture hours)
Introduces interpersonal relations most directly linked to attainment of organizational and individual goals in the business world. Other factors include motivation, career development, and conflict resolution. It explores the importance of effective communication in organizations. Addresses organizational issues such as employee motivation and customer complaints as related to product or service defects.
Location(s): Online

MAT 112 FINANCIAL MATHEMATICS/3
(45 lecture hours)
Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.
Location(s): Online

MAT 255 LINEAR ALGEBRA/3
(45 lecture hours)
Introduces linear algebra and emphasizes techniques of problem solving and introductory proofs. This course includes linear systems, matrices, determinants, vector spaces, linear transformations, eigenvalues, and eigenvectors.
Location(s): Online

MAT 265 DIFFERENTIAL EQUATIONS: GT-MA1/3
(45 lecture hours)
Explores techniques of problem solving and applications. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms. This is a statewide Guaranteed Transfer course in the GT-MA1 category.
Location(s): Online

MGD 102 INTRODUCTION TO MULTIMEDIA/3
(45 lecture hours)
Introduces the basic components of multimedia: text, graphics, animation, sound, and video. Students gain an introductory knowledge of various multimedia and design software programs. Students gain hands-on, technical, conceptual and aesthetic experience pertaining to the creation of multi-dimensional design and time-based media via an array of projects and demonstrations. Students will be

introduced to career opportunities within multimedia fields.
Location(s): Online

MGD 112 ADOBE ILLUSTRATOR I/3
(45 lecture hours)
Concentrates on the high-end capabilities of Adobe Illustrator as an illustration, design and vector drawing tool. Students learn how to use the tools to create digital artwork that can be used in web design, print media, and digital screen design. Course competencies and outline follow those set by the Adobe certified Associate exam in Visual Communication using Adobe Illustrator.
Location(s): Online

MGD 114 ADOBE INDESIGN/3
(45 lecture hours)
Introduces students to InDesign, a page layout program which integrates seamlessly with other Adobe design programs. InDesign delivers creative freedom and productivity to DTP. Class discussions and independent projects supplement hands-on classroom work.
Location(s): Online

MGD 133 GRAPHIC DESIGN I/3
(45 lecture hours)
Focuses upon the study of design layout and conceptual elements concerning graphic design projects such as posters, advertisements, logos, and brochures.
Location(s): Online

MGD 141 WEB DESIGN I/3
(45 lecture hours)
Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.
Location(s): Online

MGD 143 MOTION GRAPHIC DESIGN I:(SOFTWARE)/3
(45 lecture hours)
Stresses creation of animation and dynamic interactive media for web and multimedia applications to a professional standard. Students will learn how develop projects for time-based media, key-frames, tweens and symbols. Students will learn how to use actions to trigger timeline events to create interactive behaviors.
Location(s): Online

MUS 100 MUSIC THEORY FUNDAMENTALS I/3
(45 lecture hours)
Focuses on the foundational elements of music theory. The course will cover clef reading, pitch and rhythmic notation, intervals, scales, key signatures, triads and diatonic chords, and an introduction to ear training and sight singing. The course will help beginning music students, including those who have limited background reading music notation and understanding the fundamentals of music theory.
Location(s): Online

MUS 125 HISTORY OF JAZZ: GT-AH1/3
(45 lecture hours)
Provides an overview of jazz history covering the basic materials of music and the forms, media, genres, and the historical and cultural framework of each style period. This course emphasizes the building of critical listening tools and the development of a jazz music vocabulary. This is a statewide Guaranteed Transfer course in the GT-AH1 category.
Location(s): Online

NUR 101 PHARMACOLOGY CALCULATIONS/1
(15 lecture hours)
Prepares nurse to provide safe, patient-centered nursing care related to dosage calculations within the respective scope of practice. This course introduces critical thinking

applied to dosage calculations and communication used when interacting with patients and members of the healthcare team related to various aspects of safe administration of medications. Information technology used to document medications administered and patient technology used to deliver medications are also practiced.
Location(s): Online

PHI 115 WORLD RELIGIONS-WEST: GT-AH3/3
(45 lecture hours)
Introduces students to religions of the Western World: Judaism, Christianity, and Islam. Utilizes the methods of religious studies to understand the historical development of each religious tradition in terms of communities, cultural context, and modern manifestations; paying particular attention to differences between sects, denominations, schools, and factions within each tradition. Focus will include the examination of the charismatic leaders, prophets, and narratives that inform the worldview of each tradition. This is a statewide Guaranteed Transfer course in the GT-AH3 category.
Location(s): Online

PHI 116 WORLD RELIGIONS-EAST: GT-AH3/3
(45 lecture hours)
Introduces the major religions of the Eastern World: Hinduism, Buddhism, Confucianism, and Daoism. Utilizes the methods of religious studies to understand the historical development of each religious tradition in terms of communities, cultural context, and modern manifestations; paying particular attention to differences between sects, denominations, schools, and factions within each tradition. Focus will include the examination of the charismatic leaders, prophets, and narratives that inform the worldview of each tradition. This is a statewide Guaranteed Transfer course in the GT-AH3 category.
Location(s): Online

PHI 205 BUSINESS ETHICS: GT-AH3/3
(45 lecture Hours)
Examines major ethical theories and then applies ethical decision-making criteria to various moral issues and challenges in a business environment. This course will include issues such as job discrimination, worker's rights, consumerism, advertising, whistle-blowing, product safety, responsibility to the environment, as well as compassionate and fair responsibility to society. This is a statewide Guaranteed Transfer course in the GT-AH3 category.
Location(s): Online

POS 125 AMERICAN STATE AND LOCAL GOVERNMENT: GT- SS1/3
(45 lecture hours)
Emphasizes the structure and function of state, county, and municipal governments including their relations with each other and with national government. Includes a study of Colorado government and politics. This is a statewide Guaranteed Transfer course in the GT-SS1 category.
Location(s): Online

POS 205 INTERNATIONAL RELATIONS: GT-SS1/3
(45 lecture hours)
Examines the interactions among various levels of actors in the international system. This course attempts to explain behaviors across state boundaries. This is a statewide Guaranteed Transfer course in the GT-SS1 category.
Location(s): Online

RUS 111 RUSSIAN LANGUAGE I/5
(75 lecture hours)
Begins a sequence dealing with the development of functional proficiency in listening, speaking, reading and writing the Russian language. Note: The order of the topics and methodology will vary according to individual texts and instructors.

Location(s): Online

WST 200 INTRODUCTION TO WOMEN`S STUDIES: GT-SS3/3
(45 lecture hours)
Explores the interdisciplinary field of women's studies. This course is an examination of the following topics: the historical basis of gender inequality; the history of social movements for gender equality and women's studies; women's achievements throughout history in various professional and academic fields; women's social, economic, religious, health and political status in the U.S. and around the globe; gender relations; intersectionality; cultural, media and artistic representations of women. This is a statewide Guaranteed Transfer course in the GT-SS3 category.
Location(s): Online