



# **ROCKY MOUNTAIN COLLEGE**

## **Catalog 2012-2013**

Every effort has been made to ensure that this catalog is accurate and current. Information in the catalog is correct according to information available to the Rocky Mountain College administration at the time of publication. Rocky Mountain College reserves the right to withdraw courses at any time, change the fees, change the rules and calendar, regulate admission and graduation requirements, and change any other regulations affecting the student body. Changes shall become effective whenever the proper authorities so determine and shall apply not only to prospective students but also to those who at the time are matriculated in the College.



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## Fall Semester 2012

Early validation must be complete (confirm attendance and make payment arrangements or a \$50 fine will be charged).	August 1, 5 p.m.
Early check-in for new students	August 13
Late validation (if not validated, a \$150 fine will be charged)	August 24
Classes begin	August 27
Internship contracts due	August 27
Last day to add a course	August 31
Applications for graduation in May 2013 are due in the Office of Student Records	September 1
Labor Day-No classes	September 3
Last day to drop a course with no record on transcript	September 7
Mid-term break	October 18-21
Mid-term grades due in the Office of Student Records at Noon	October 22
Last day to drop a course with a grade of 'W'	October 26
Online registration open for Spring 2013	October 29
Thanksgiving break	November 22-25
Last day of classes	December 7
Final examinations	December 10-14
Final grades due in the Office of Student Records at Noon	December 17

## Spring Semester 2013

Early validation must be complete (confirm attendance and make payment arrangements or a \$50 fine will be charged).	December 10, 5 p.m.
Late validation (if not validated, a \$150 fine will be charged)	January 4
Classes begin	January 7
Internship contracts due	January 7
Last day to add a course	January 11
Last day to drop a course with no record on transcript	January 18
Martin Luther King Day-No classes	January 21
Applications for graduation in December 2013 are due in the Office of Student Records	February 1
Mid-term break	March 4 -10
Mid-term grades due in the Office of Student Records	March 11
Last day to drop a course with a grade of 'W'	March 18
Online registration for Fall 2013 opens. Summer 2013 registration available through paper registration.	March 25
Easter Break	March 29-April 1
Last day of classes	April 26
Final examinations	April 29-May 3
Baccalaureate	May 3
Commencement	May 4
Final grades due in the Office of Student Records at noon	May 8

## Summer Session 2013

<b>Session 1</b>	<b>May 6-May 24</b>
Classes begin. Validation must be complete (confirm attendance and make payment arrangements). After this time, late penalties in effect (courses deleted and late fee charged).	May 6
Last day to add a course. Last day to drop a course without record on transcript	May 8
Last day to drop a course during Session 1 (with a "W" on transcript).	May 17
Last day of class	May 24
Memorial Day	May 27
Final grades due in the Office of Student Records at noon	May 29
<b>Session 2</b>	<b>May 28-June 28</b>
Classes begin. Validation must be complete (confirm attendance and make payment arrangements). After this time, late penalties in effect (courses deleted and late fee charged).	May 28
Last day to add a course. Last day to drop a course without record on transcript.	May 30
Last day to drop a course during Session 2 (with a "W" on transcript).	June 17
Last day of class	June 28
Final grades due in the Office of Student Records at noon	July 3
<b>Combined Session</b>	<b>May 6-June 28</b>
Classes begin. Validation must be complete (confirm attendance and make payment arrangements). After this time, late penalties in effect (courses deleted and late fee charged).	May 6
Last day to add a course. Last day to drop a course without record on transcript.	May 17
Memorial Day-no classes	May 27
Last day to drop a course during Combined Session (with a "W" on transcript).	June 21
Last day of class	June 28
Final grades due to the Office of Student Records at noon	July 3

# Master of Physician Assistant Calendar

In addition to fall and spring semesters, physician assistant students have an initial summer term and a full summer semester.

## Initial Summer Semester 2013

Validation must be complete (confirm attendance and make payment arrangements; Classes begin)

Independence Day – No classes

Last day of classes

**July 8, 2013**

July 8

July 4

Aug. 16

## Full Summer Semester 2013

Validation must be complete (confirm attendance and make payment arrangements; Classes begin)

Break - AAPA Conference - No classes

Independence Day – No classes

Last day of classes

Final Examination

**May 6-Aug 16**

May 6

May 28-June 1

July 4

Aug. 16

Aug. 13-16

# Master of Educational Leadership Calendar

## Fall 2012

Classes begin

Initial seminar at Rocky Mountain College

Application for May 2011 graduation due

Last day of classes for fall term

Final grades due

July 30

July 30-Aug 3

Oct. 31

Dec. 18

Jan. 10, 2013

## Spring 2013

Classes begin

Baccalaureate

Commencement

Capstone seminar at Rocky Mountain College

Final grades due

Jan. 8

May 3

May 4

June 10-14

June 22, 2013

# General Information

## History of Rocky Mountain College

Rocky Mountain College is the oldest college in Montana. Its history demonstrates a commitment to excellence and an openness to all points of view. Adversity has led to strength through the joining of a liberal arts tradition and the heritage of practical training for specific careers. The union of three distinct religious traditions has resulted in a church-related college that considers all questions in an open and non-sectarian manner.

In 1877, a small group of Methodists met in Bozeman to establish a school in a principal area of the Territory. The committee included former Governor Benjamin J. Potts and minister-missionary Brother William Van Orsdel. The committee encountered roadblocks along the path to success, so a contingent from Deer Lodge, Montana decided to establish the Montana Collegiate Institute in 1878 with three faculty, about two dozen students, and tuition of only \$15 to \$25 (payable in advance, of course).

Four years later, the Presbyterian Church assumed control and chartered the College of Montana with three brick buildings and an initial student population numbering 160. Tuition had risen to \$5 per month. Meanwhile, in 1889, the Methodist Episcopal Church opened Montana University, later changed to Montana Wesleyan University, located in Helena. The assets, organizations, and traditions of these Presbyterian and Methodist institutions merged in 1923 under the aegis of Intermountain Union College in Helena. In 1904, two decades prior to the founding of Intermountain Union College, two brothers from Maine, Lewis T. and Ernest T. Eaton, leased the abandoned campus at the College of Montana and renamed it the Montana College and School of Manual Arts. In 1908, the brothers moved to Billings and established the Billings Polytechnic Institute, using the same blend of practicality, cultural arts, and civic and religious training of youth in its curriculum. Earthquakes seriously damaged the Intermountain Union College buildings in 1935, and after a brief move to Great Falls, Intermountain Union College accepted an invitation to relocate on the Billings Polytechnic Institute campus. As affiliates, the institutions developed integrated programs and then merged into a single college named Rocky Mountain College by student vote in 1947.

The College maintains this proud blend of traditions as part of its heritage. One enduring tradition, the Candlelight Supper, heralds the anniversary of the day Billings Polytechnic Institute moved from downtown Billings to its present location. The event was so named because on moving day in 1910, there was no electricity in the buildings. A supper of cold sliced meat, cold boiled potatoes, cold baked beans, and doughnuts was served by candlelight. Since then, that first meal has been honored each year with a Candlelight Supper. The tradition is observed nationwide and in foreign countries as Rocky Mountain College alumni from far and wide convene for their Candlelight Suppers approximating the atmosphere, if not the menu, from that first supper.

Another more recent but equally popular tradition is the Yule Log Dinner and the Lighting of Losekamp. This Christmas ceremony involves the College community in a celebration of the beauty, spirituality, and sentiment of the season.

Since the merger of Intermountain Union College and Billings Polytechnic Institute in 1947, Rocky Mountain College has been fortunate to have the following presidents as leaders:

William D. Copeland – 1947-1951  
Herbert W. Hines – 1951-1958  
Philip M. Widenhouse – 1958-1966  
Lawrence F. Small – 1966-1975  
Bruce T. Alton – 1975-1986  
James J. Ritterskamp, Jr. – 1986-1987  
Arthur H. DeRosier, Jr. – 1987-2002  
Thomas R. Oates – 2002-2005  
Michael R. Mace – 2005-Present

## Mission

Rocky Mountain College educates future leaders through liberal arts and professional programs that cultivate critical thinking, creative expression, ethical decision making, informed citizenship, and professional excellence.

## Core Themes

### Academic Excellence

Rocky Mountain College creates a culture of learning by providing distinctive academic programs designed and executed by outstanding faculty. The College is committed to the liberal arts and sciences as the basis for all academic development and as the foundation of the student experience. This commitment directs the College's general education requirements and the expectations of students engaged in the various disciplines. Graduates possess knowledge and abilities that promote professional excellence and lifelong learning through the combination of programs in the traditional liberal arts and sciences with professions-oriented disciplines.

### Transformational Learning

Rocky Mountain College embraces its role as a transformational agent in the lives of students and elevates them educationally, economically, socially, and culturally. The College promotes the development of the whole person to maximize students' human and leadership potential. The College, more than the sum of its curricula and programming, affords students opportunities to engage in a wide range of curricular, co-curricular, and extra-curricular opportunities enhancing the student experience.

### Shared Responsibility and Stewardship

Rocky Mountain College strives to be the embodiment of its mission. By serving as a capable steward of resources and by



## General Information

employing a participative and effective governance model, the College demonstrates application of the concepts expressed in its mission. Specifically, the College strives to engage in informed and ethical decision making through the application of best practices as a means to promote organizational development and excellence. In short, the College endeavors to manifest the ideals of critical thinking, ethical decision making, informed citizenship (from an organizational perspective), and professional (organizational) excellence. In doing so, the College models abilities, dispositions, and behaviors expected of students.

### Accreditation

**Rocky Mountain College** is accredited by the Northwest Commission on Colleges and Universities, 8060 165th Avenue NE, Suite 100, Redmond, Washington 98052-3981, and by the Office of Public Instruction for the State of Montana for the preparation of elementary and secondary teachers. The physician assistant program is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA), and the aviation program is accredited by the Aviation Accreditation Board International.

### Church Relations

Rocky Mountain College is affiliated with the United Church of Christ, the United Methodist Church, and the Presbyterian Church (USA). The College is non-sectarian in spirit and program. The College actively upholds the importance of religious faith and the necessity for religious tolerance and free inquiry. It encourages classroom discussion of the religious roots and implications of academic questions whenever relevant. Students are encouraged to develop and/or strengthen their religious beliefs, while the religious convictions and questions of all members of the College community are taken seriously.

### The Campus

The campus of Rocky Mountain College occupies approximately 60 park-like acres in a residential section of Billings. Deciduous and evergreen trees, shrubs, and perennials make the campus particularly welcoming.

**Alden Hall**, 1937. This attractive stone and stucco building, the gift of the Alden Trust and founded by the late George Alden, Worcester, Mass., served as a residence hall for men until 1973. Currently, it houses faculty offices and the Institute for Peace Studies.

**Anderson Hall**, 1970; 1998. Anderson Hall offers traditional residence hall housing for 72 students, with common restrooms, showers, and kitchens. One of the campus's most popular spots, the ASRMC lounge, is located in the basement. Yoder Lounge, a comfortable space for study, computer use, and relaxation, connects Anderson to Widenhouse Hall. Anderson is named for Lula Anderson, a member of the first graduating class of Billings Polytechnic Institute.

**Aviation Hall**, 1989. This stucco building, located on the corner of Rimrock Road and Augusta Lane, houses the aviation program.

**Bair Family Center for the Sciences**, 1981. Named for the family of Montana pioneer and rancher, Charles M. Bair, Rocky Mountain College's major science facility houses the science and mathematics disciplines and is complete with classrooms, laboratories, seminar rooms, and faculty offices. It also houses the Nuclear Magnetic Resonance (NMR) Spectrometer. The facility was made possible by a major gift from Alberta M. Bair, daughter of Charles M. Bair, together with gifts from other donors to the Second Century Fund.

**Bair Family Student Center**, 1961; 1997. Located in the center of the campus, north of the Rocky Green, this structure houses the dining room, snack bar, bookstore, game room, Fraley Lounge, campus mail services, the offices of ASRMC, career services, and the office of the dean for student life. The building has been extensively expanded and remodeled.

**Billings Studio Theatre**, 1971. This building affords an excellent facility for dramatic productions as well as a commodious lecture hall, seating 250. It was built in cooperation with the Billings Studio Theatre community drama group.

**Eaton Hall**, 1909. Originally known as Science Hall, this building, the gift of a group of pioneer businessmen in Billings, houses administrative offices. The hall is named for the founders of Billings Polytechnic Institute, Lewis T. and Ernest T. Eaton.

**Educational Resource Center**, 1958; 1999. This building houses the Paul M. Adams Memorial Library, computer equipped writing, data, and business classrooms, and a distance learning center. The library, now the largest part of the ERC, contains a collection of over 85,000 books and periodicals accessible via the library's computer catalog. The ERC also houses the Alice Giddings King Memorial Archives, the College's Heritage Archives and collections belonging to the United Methodist Church and the United Church of Christ.

**Flight Training Operations**, 2007. Aircraft with modern navigation and avionics systems provide basic training resources for students. The location at the Billings Logan International Airport provides close access to flight training and Class C airport operations.

**Fortin Education Center**, 1969. Fortin Education Center houses several academic programs, a gymnasium, auxiliary exercise areas, a swimming pool, a health suite, a large lecture hall, classrooms, laboratories, and offices for faculty and administrators. It is named for Philip Fortin, a Billings businessman and philanthropist.

## General Information

**Intermountain Equestrian Center.** Located nine miles from campus, Rocky Mountain College contracts facilities that include two large heated indoor arenas, two extensive outdoor arenas, round pens, numerous trails for pleasure riding, and top-notch stabling for 75 horses.

**Jorgenson Hall,** 1964; 1998. This residence hall consists of 48 apartment units with private entrances. On the west end of campus, Jorgenson is a fine retreat for our upper-class, nontraditional, and married students, as well as students with families.

**Lillis Chapel,** 2007. Located in the lower level of the Bair Family Student Center.

**Losekamp Hall,** 1917. This sandstone building, in a modified Collegiate Gothic style, was a gift of the late John D. Losekamp, a pioneer merchant of Billings. It houses the music and theatre arts programs and the Ruth and Vernon F. Taylor Auditorium, which is used for drama productions, recitals, and other special events. Losekamp houses studios, practice rooms, and classrooms.

**Morledge Facility Services Building,** 2001. This structure, provided by a generous gift from Dr. Charles and Patti Morledge, houses equipment used to maintain the campus buildings and grounds.

**Morledge - Kimball Hall,** 1914, 2009. This stone and stucco building, part of which formerly served as a residence hall for women, was named for the principal donors, the Morledge Family, Billings, Montana, and the late Mrs. Flora Kimball, Portsmouth, New Hampshire. This lovely facility houses twenty-two faculty offices and seven classrooms.

**Prescott Hall,** 1916; 2001. This stone building was erected through the generosity of the late Amos L. Prescott of New York City. The commons, a large paneled room with a wood-and-beam ceiling, has large fireplaces at each end. Before 1961 it served as the College's dining hall. Extensive renovation and expansion were completed in fall 2001. It currently houses administrative offices and serves as a gathering place for the campus community.

**Rimview Hall,** 2004. Located on the western edge of campus, this residence hall provides 200 private rooms within a suite-style complex (four students with private sleeping quarters per suite). Each suite is equipped with a microkitchen and 1.5 baths. Occupancy of this facility is restricted to students with sophomore status or higher.

**Technology Hall,** 1922. This sandstone structure contains offices, classrooms, an art gallery, art studios, laboratories for the computer science program, and the College's maintenance department.

**Tyler Hall,** 1930. This beautiful sandstone building in the

Collegiate Gothic style is architecturally one of the finest on campus. This gift of Mrs. G. W. Mehaffey, Brookline, Mass., is a memorial to her father, the late W. Graham Tyler. It served until 1971 as a men's residence hall. It now houses faculty offices, and facilities for the teacher education program.

**Widenhouse Hall,** 1961; 1998. Dedicated in 1973 to the memory of Philip M. Widenhouse, third president of Rocky Mountain College, this residence hall provides traditional and suite-style accommodations for 176 students. Each room has a private bathroom and kitchenette with refrigerator, sink, and microwave with adjoining storage rooms and personal laundry facilities.

# Requirements for Admission

## Admissions for Undergraduate Studies

The College invites applications for admission from students who demonstrate academic ability and who are seriously interested in the total development of character, intellect, leadership, and skills. Admission is based upon a careful review of the credentials presented by an applicant. Selection is made without regard to race, color, gender, age, religion, national or ethnic origin, physical or mental disability, sexual orientation, or familial status.

All applications for admission are reviewed on an individual, rolling basis. Criteria for admission to Rocky Mountain College are listed below. Exceptions are clearly identified for each group of applicants. Once an applicant's file is complete, the admissions committee will make a decision on the student's application for admission. It is in the student's best interest to apply early for admission.

Students seeking admission must submit:

1. Completed Rocky Mountain College application for admission;
2. Official transcripts (high school, GED, and any from post-secondary institutions);
3. Results of ACT and/or SAT tests for traditional freshman students;
4. Non-refundable application fee of \$35 (international students, \$40); this fee is waived for online applications; and
5. An essay and two letters of recommendation may be required.

Traditional freshman applicants are encouraged to follow a college-preparatory curriculum.

The following may also be considered in reviewing applications for admission:

- Community service and work experience;
- Extracurricular activities;
- Special circumstances (e.g., health or personal);
- Recommendation information; and
- A personal essay.

## Freshman Student

### Admission Criteria

- High school diploma and a cumulative GPA of 2.50 or higher and an ACT/SAT score of 21/1000 (math and reading) or higher.
- The admissions committee, composed of staff and faculty, will consider students with a cumulative GPA below 2.50 or a GED and an ACT/SAT score below 21/1000 (math and reading) for admissions.
- A student who does not meet the normal requirements for admission must submit a personal essay and two letters of recommendation to the admissions office for review by the admissions committee, who will make a decision on that application. Appropriate references include teachers, professors, counselors, employers, clergy, etc.

- High school students may be considered for admission with grades reported through their junior year in high school. Final official transcripts noting certification of graduation and class rank must also be submitted before a student enrolls. Those students earning a GED must submit an official record of their scores directly from the granting agency to the College.

## Nontraditional Freshman Student

Nontraditional students are those students who are at least 25 years old and have not attended a post-secondary institution.

### Admission Criteria

- Students with a high school diploma and a cumulative GPA of 2.50 or higher meet the requirement for regular admission. ACT/SAT scores are not required for an admissions decision, but are helpful for placement into the appropriate college-level English and mathematics courses.
- Students with a GED or a cumulative high school GPA of less than 2.50 are considered for admission by the admissions committee as outlined above. ACT/SAT scores are not required for an admissions decision, but are recommended.
- Students are required to submit an essay and two letters of recommendation from references.

## Transfer Student

Transfer students must have official transcripts from all colleges, vocational schools, and other post-secondary schools previously attended sent directly from their previous institutions to Rocky Mountain College. Transfer students must complete all College degree requirements to graduate.

### Admission Criteria

- Students who have completed, at an accredited institution, a minimum of 27 semester hours that count toward Rocky Mountain College general education requirements and/or a Rocky Mountain College established major; and who have a minimum of a 2.00 GPA, meet the requirement for regular admission.
- Students who have attempted 27 or more semester hours but have less than 27 semester hours that count toward Rocky Mountain College general education requirements and/or a Rocky Mountain College established major, will be reviewed by the admissions committee and may be required to submit additional materials.
- Students who have attempted less than 27 semester credits are reviewed according to the same criteria for admission as new freshmen (see Freshman Student Admission).
- Any student, regardless of the number of credits transferring, who has been dismissed, placed on probation, or documented as not in good standing with any prior institution will be reviewed by the admissions committee and may be required to submit additional materials.

**Note:** Although the College reserves the right to refuse incoming transfer credits, credits from equivalent accredited colleges normally will be accepted, subject to these conditions:

# Requirements for Admission

- No junior- or senior-level credit is allowed for courses from two-year colleges.
- No "F" grades are accepted.
- No preparatory/developmental classes below the 100 level are accepted.

Failure to reveal records of previous college attendance is grounds for dismissal. The office of student records makes final determination concerning acceptance of credit.

## Requirements for International Admissions

International applicants are required to submit original or certified copies of official secondary school transcripts in native language, accompanied by a certified English translation. Those applying as transfer students must submit original or certified transcripts from each post-secondary institution attended. Additional admissions materials for first-year applicants include official SAT or ACT results.

International applicants meeting the following criteria will be offered regular admission: A cumulative secondary school grade point average of 2.5 or higher and a critical reading and math section total on the SAT of 860 or an enhanced version composite score of 18 on the ACT.

Those applicants who completed secondary school three or more years prior to applying to the College, who are unable to submit SAT or ACT scores and whose native language is not English will be required to submit official results of English-language testing, such as TOEFL or IELTS. The following English-language test result minimums will be considered: TOEFL score of 525 (paper-based), 197 (computer-based) or 72 (Internet-based); or IELTS result of 5.5/6.

For admission to a graduate program, the following English-language test score minimums are required: TOEFL – 570 (paper), 230 (computer), 88 (Internet); IELTS – 6.5. Depending on the program, official GRE or GMAT results are required.

The admissions committee will consider undergraduate applicants with a cumulative grade point average below 2.5 and/or SAT or ACT scores below 860 or 18, respectively. These applicants will be required to submit a letter from a secondary school official, attesting that the student was in the upper 50% of his or her graduating class.

Accepted students are required to present confirmation of financial support. Submitted documentation will demonstrate the student, a benefactor, or a third-party sponsor has sufficient funds to support the student's educational expenses for the first year. Such expenses may include tuition, fees, room, board, books and other living expenses. Confirmation of financial support typically consists of a bank statement and an affidavit of support. The Office of International Programs should be consulted prior to submitting documentation.

## International Admissions Checklist:

- Official or certified copies of transcripts from all secondary and post-secondary institutions attended;
- Official or certified SAT or ACT results;
- English-language test scores (waived if submitting SAT or ACT):

Upon acceptance to Rocky Mountain College, international students will be forwarded an admissions packet consisting of the following:

1. Official acceptance letter;
2. Certificate of Eligibility: I-20 or DS-2019 (to obtain a visa);
3. Pre-arrival information packet;
4. Housing information and application;
5. Insurance guide and form; and
6. Student health form.

Items 4, 5 and 6 above should be submitted to the Office of International Programs after receipt of the acceptance packet.

For more information, contact the Office of International Programs at [international@rocky.edu](mailto:international@rocky.edu) or (406) 657-1107.

## International Transfer Student

If transferring from a college or university within the United States, an Intent to Transfer Form must be completed and submitted. This form is provided by the Office of International Programs upon acceptance. Refer to the transfer student section for additional requirements. If transferring from a college or university outside of the United States, an evaluation of non-U.S. post-secondary credentials will be required.

### Admission Criteria

- Students who have completed 27 or more transferable semester credit hours from an accredited college or university and who have a cumulative college GPA of 2.00 or higher and evidence of academic language proficiency meet the requirements for regular admission.
- Students transferring from colleges or universities in another country may have to pay an additional fee to have their credentials evaluated by an independent agency.

## International Exchange Student

These students are not seeking degrees from the College, but are enrolled as visiting students for one or two semesters with the goal of exploring the region, American culture, and taking courses of interest to them.

### Admission Criteria

- The usual requirements for admission are waived for visiting international exchange students. Instead, articulation agreements between partner institutions or organizations will establish mutual requirements.
- Students are screened by committees at the partner insti-

# Requirements for Admission

tutions or meet criteria set by the consortia through which exchanges are facilitated. Typically, students must be "C+" or better students and must have English language proficiencies near that of the College's requirement. Standardized test scores are not required. Students receive letter grades unless otherwise specified in the exchange agreements.

## Readmission Guidelines

Students who previously attended Rocky Mountain College but were not enrolled during the previous semester must apply for readmission. Applications for readmission may be downloaded from the Rocky Mountain College website or requested from the office of student records. Students must submit the application along with all transcripts from institutions attended since their last enrollment at Rocky Mountain College.

### Admission Criteria

Students who left Rocky Mountain College in good academic standing will be approved for readmission if they meet the following criteria:

- Have a minimum of 2.00 GPA on a 4.00 scale from any institution attended since their last enrollment at Rocky Mountain College;
- Are in good standing at that/those institution(s); and
- Have not been convicted of a criminal offense.

The admissions committee will consider any student for readmission who does not meet these criteria, including students with a Rocky Mountain College cumulative GPA below a 2.00. In addition to the readmission application, students are required to submit an essay for review by the committee. The essay should address the following:

- An explanation of past performance;
- Strategies the student will employ to improve his or her academic standing; and
- Changes in the student's personal life which will contribute to academic success.

## Veterans Admission

Veterans of the armed services are encouraged to apply for admission and should follow the guidelines for "Freshman Admission" or "Transfer Admission." The College will give appropriate credit for college-level courses taken while in the armed services. Credit evaluation is based on American Council of Education guidelines and is awarded after successful completion of one semester (see the "Academics" section of the catalog). Veterans and children of deceased veterans who are eligible for veteran's administration (VA) funding must secure a certificate of eligibility through a regional VA office. The financial aid office serves as the campus VA representative.

## Early Admission

Students who wish to complete their senior year in high school concurrently with their freshman year in college may

apply for early admission. Students who apply for early admission are required to submit material outlined in the "Freshman Student Admission" section in this catalog. In addition, the following items are required:

1. A letter of approval from parent or legal guardian;
2. A letter from the student's high school principal recommending early admission; and
3. A letter from the student's high school counselor or teacher indicating the level of student's academic ability, emotional maturity, and social development.

A student accepted under the early admission policy is not required to show evidence of having earned a high school diploma. Upon request, the College will attempt to arrange a freshman-year curriculum for the student with coursework that parallels the high school classes for which credit is needed. Through this procedure, the student may earn a high school diploma while attending college. The student's principal and/or local school board must approve such an arrangement.

## "Explore College During High School"

High school juniors or seniors who wish to take college courses while still in high school need to complete the high school application for admission and submit a letter of recommendation from a high school counselor or principal. There is no application fee for this program. Students may enroll for up to six semester hours each semester while they are juniors and seniors, including summer sessions between their junior and senior years. Students wishing to continue their education at Rocky Mountain College after high school must follow the guidelines outlined in the "Freshman Student Admission" section.

## Audit Student

Individuals may attend classes without receiving credit by auditing the course. There are no admission requirements; however, students are required to pay an audit fee in addition to any materials fees. Audit class availability is dependent on space and permission of the instructor. Contact the office of student records for more information.

## Students with Disabilities

### Admissions Process

There is no separate admissions process for students with disabilities. Students apply through the regular admissions process and must meet the College's admissions criteria. For services, refer to "disability services" and "services for academic success (SAS)" in the "support services" section.

## Process of Confirmation

The College will make a decision on a student's application for admission after required credentials have been presented. Admissions decisions are made on a rolling basis throughout the year, and students may be admitted any semester. After a decision has been made regarding a student's application for admission, the student will be notified immediately.

# Requirements for Admission

Upon acceptance to Rocky Mountain College, students will be sent a letter of acceptance and the Family Education Right to Privacy Act (FERPA).

Students are asked to submit a \$250 tuition deposit. The deposit will be held in a subsidiary account and refunded upon graduation subject to any outstanding amount a student owes Rocky Mountain College. The deposit will guarantee enrollment in the student's chosen major. Upon receipt of deposit, students will be sent the following forms:

1. Residence hall contract or off-campus residency application;
2. News and information form;
3. Student health service form; and
4. Services for academic success (SAS) application form.

The College reserves the right to deny admission to any applicant whose academic history or personal qualifications are judged to be unsuitable for college work and living at Rocky Mountain College.

## Admissions for Graduate Studies

### Master of Accountancy Program Traditional Graduate Admission

*Anthony R. Piltz, Professor*

*Kate Erin, Assistant Professor*

*Rockland J. Tollefson, Visiting Assistant Professor*

Applicants for the program who possess undergraduate degrees will be considered for admission based on the following:

- Possession of an earned bachelor's degree from a regionally accredited institution. The candidate's major field of study must be a field other than accounting.
- Cumulative undergraduate GPA of 3.0, or above.
- Completion of the GMAT Exam.
- Completion of the following nine prerequisite courses: (The cumulative GPA for the courses must be 3.0, or above.)
  1. BSA201 Principles of Accounting I (or equivalent)
  2. BSA202 Principles of Accounting II (or equivalent)
  3. ECO201 Principles of Macroeconomics (or equivalent)
  4. ECO202 Principles of Microeconomics (or equivalent)
  5. MAT210 Probability and Statistics (or equivalent)
  6. BSA351 Financial Reporting I (or equivalent)
  7. BSA352 - Financial Reporting II (or equivalent)
  8. BSA311 - Principles of Finance

### 3-2 Program Admission

Current RMC undergraduate students and undergraduate transfers to RMC are subject to a two-tiered admission process. Students are first admitted to the accounting program for the fourth year of study then, contingent upon sufficient academic progress, to the master of accountancy program for the fifth year of study. The specific admission requirements are:

- For the accounting program, candidates must have completed 90 semester-hours of college-level credit with a cumulative GPA of 2.75, or above. The 90 earned credits must include: BSA201, BSA202, ECO201, ECO202, MAT210, BSA351, BSA352, and BSA311. The cumulative GPA for these eight courses must be 3.0, or above.
- Upon completing 124 college-level credits, candidates are eligible for formal admission to the Master of Accountancy Program. To be admitted, candidates must:
  1. Complete the GMAT Exam
  2. Be currently enrolled in the Accounting Program and be in good academic standing.

### Course Sequence

Courses are taught on a four semester rotating cycle. Therefore, the program will take a minimum of four semesters to complete. Current RMC students will generally begin the program in the first semester of the senior year (see 3-2 admission above). The program is designed to avoid any sequencing problems, so a student may begin the program in any individual semester. The only prerequisite for any of the master's level courses is BSA352 (Financial Reporting II).

## Master of Educational Leadership

*Stevie Schmitz, Director*

*Jo Swain, Associate Professor*

*Christine Unquera, Program Assistant*

### The following materials are required to be considered for the educational leadership program (certification only):

- Application for admission
- Current resume to include educational degrees/professional experiences as well as relevant awards, publications, presentations or other achievements;
- Official transcript from the regionally accredited institution that granted your most recent degree.
- Three professional reference forms (Rocky Mountain College reference forms must be used) completed by:
  1. the applicant's principal
  2. a teacher the principal chooses, and
  3. a teacher of the applicant's choice. If the applicant is not currently teaching, a supervisor must be chosen who can describe the applicant's work.
- A photocopy of the applicant's valid (current) teaching certificate. If this certificate has expired, the applicant will be required to submit a renewed certificate before applying for the principal certificate.

Interested individuals should complete the following if they are interested in a master's-level program in educational leadership. **The following materials are required to be considered for admission into the master of educational leadership program:**

- Online application.
- Current resume with a defined goal statement. The goal statement is 4-7 pages, double-spaced, which explains:
  1. The applicant's philosophy of education;
  2. Qualities or characteristics of exemplary leaders;
  3. How the applicant demonstrates or embodies these qualities or characteristics in his or her professional experience;
  4. Why the applicant is applying to the Rocky Mountain College educational leadership program and wishes to become an educational leader in the

## Requirements for Admission

- 21st century; and
5. What pledge of support from the applicant's school district has been secured and how the applicant will arrange release time for the internship required in the Rocky Mountain College program.
- Official transcript from the regionally accredited institution that granted your most recent degree;
  - Three professional reference forms (Rocky Mountain College reference forms must be used) completed by:
    1. The applicant's principal
    2. A teacher the principal chooses, and
    3. A teacher of the applicant's choice. If the applicant is not currently teaching, a supervisor must be chosen who can describe the applicant's work.
  - Submit a photocopy of a valid (current) teaching certificate. If the applicant's certificate has expired, he or she will be required to submit a renewed certificate before applying for the principal certificate.
- The program for either certification or completion of a master's degree will also require a successful interview prior to admission.

### Master of Physician Assistant Studies

*Robert Wilmouth, MD*

*Program Director*

Admission to the physician assistant program is highly competitive and multi-faceted. Application through the Center Application Service for Physician Assistants (CASPA) system is required. Applicants are selected based on their academic preparation, health care experience, maturity, interpersonal skills, and knowledge of the Physician Assistant profession and its role in health care delivery.

Preference is given to applicants who graduate from high schools in rural areas and who are residents of Montana, Wyoming, Colorado, North Dakota, South Dakota, Idaho, or Utah.

#### Applicants need the following to be considered:

1. Bachelor's degree from a regionally accredited institution required upon matriculation to MPAS.
2. Science GPA of 2.7. No science courses with a "C-" or below.
3. Cumulative GPA of 3.0.
4. 2 semesters of organic chemistry, or 1 semester of organic chemistry and 1 semester of biochemistry or 1 year sequence in General/Organic/Biochemistry (such as found in a nursing or Allied Health program).
5. Biology coursework to include 12 credits of:
  - a. 2 semesters of anatomy & physiology with laboratory (from a biology or physiology, zoology department) (8 credits), and
  - b. 1 semester of microbiology, with laboratory (4 credits).
6. 4 credits of biology or chemistry coursework at the 200 or higher level.

7. Biology and chemistry prerequisites **may not** be taken on-line or through correspondence format.
8. Medical terminology (on-line course acceptable) - 1 credit.
9. Graduate Record Examination (GRE) score of 900 (Verbal + Quantitative combined).
10. Test of English as a Foreign Language (TOEFL) is required of all applicants when English is not the first language.
11. Mathematics to include a pre-calculus course (function, trigonometry, exponents, and logarithmic functions) or higher and a statistics/probability course - 6 credits.
12. 1 semester of Psychology (developmental or abnormal highly recommended) - 3 credits.
13. 1 semester Social Science other than Psychology (Examples: Sociology, Geography, Economics, Political Science, Anthropology) 3 credits.
14. 1 semester English composition - 3 credits.
15. 2000 hours of direct, hands-on patient care experience\* (1000 hours before you submit your CASPA application).

To apply, students must visit the CASPA website at <https://portal.caspaonline.org/> - the computerized application service. Each year, the application process begins April 15th and ends October 1st for the class the matriculates July the following year. We interview students on a rolling basis.

#### \*Direct Hands-on Patient care experience

The higher the quality of patient care experience, the more competitive the applicant will be judged. However, all applicants with direct hands-on patient care and high quality patient interactions are encouraged to apply. (Examples: CNA, MA, AT, ERT, RN, LPN, paramedic, phlebotomist)

Graduates of Rocky Mountain College (RMC) who have met all the requirements for admission, and have earned a bachelor's degree with a minimum of 60 credits earned at RMC, will be granted an automatic interview. Please note, this interview doesn't guarantee acceptance into the program. Students will compete with all other interviewing students for matriculation status.

No transfer credit or advanced placement is allowed to replace any portion of the MPAS curriculum.

Applications are only valid for the admissions cycle during which they are submitted. Individuals who wish to re-apply during the following admissions cycle are required to submit a new application.

All applicants who are accepted for admission to the Rocky Mountain College Master of Physician Assistant Studies program are required to submit official transcripts (i.e., not copies issued to the student) from all institutions of higher education previously attended (including non-U.S. schools). This set of transcripts is in addition to those submitted to CASPA.

# Academic Information

*Anthony Piltz, Academic Vice President/Provost*  
*Barb Vail, Associate Academic Vice President*

## General Academic Information

### Degrees

Rocky Mountain College offers two baccalaureate degrees—the bachelor of arts degree and the bachelor of science degree. Other degrees include the associate of arts degree, the master of accountancy, the master of physician assistant studies, and the master of educational leadership.

### The Semester Plan

College credit is offered on a semester basis. Courses offered in the summer session meet more frequently and for a longer period of time at each meeting. Enrollment is always for a semester or a summer session except in the case of a special workshop.

### Course Hours

In general, a course for one semester hour of credit meets for a 50-minute period once a week for the semester. For each class session, the student is expected to spend at least two hours in preparation. In studio, laboratory, or activity courses, at least two hours of attendance are required weekly for one semester hour of credit. In the case of seminars or independent study courses, less class attendance may be required and a proportionately larger amount of time spent in preparation.

### Course Load

A normal load is considered to be 15 to 16 semester hours. Students in good academic standing may register for up to a total of 19 semester hours with the approval of their primary academic advisor. The advisor and the academic vice president must approve all other overload registrations. For each semester hour over 19, a student is charged an overload fee.

**Note:** A student must average 15.5 semester hours for eight semesters to complete the required minimum of 124 semester hours.

### Registration

Students are expected to register on the days specified in the academic calendar. Registration is not complete until financial arrangements are made with the business office. Students may add courses to their schedule during the first week of the semester. They are allowed two weeks to remove a course with no record on the transcript.

### Classification of Students

Students are classified at the beginning of each semester in each academic year according to the following definitions of class standing:

<i>Freshman</i>	A student who has earned fewer than 27 semester hours.
<i>Sophomore</i>	A student who has earned 27 to 59 semester hours.
<i>Junior</i>	A student who has earned from 60 to 89 semester hours.
<i>Senior</i>	A student who has earned 90 or more semester hours.

### Registration Status

- **Regular:** Admission requirements fulfilled and systematically pursuing a definite course of study toward a degree.
- **Conditional:** Does not meet requirements for regular admission. Must establish regular (non-probationary) standing by the end of the first semester in residence.
- **Special:** A student who is not a candidate for a degree at Rocky Mountain College.
- **Auditor:** A student who attends class regularly but does not receive credit or grade. A regular student may audit a course without charge, providing his or her course load remains within the 12- to 19-credit range.

### Academic Advisors

Academic advisors are assigned to students based on their area of major interest upon entrance to Rocky Mountain College. Students are encouraged to meet with their advisors frequently to review graduation requirements, plan class schedules, and talk about their future. Students may change academic advisors at any time during the year by filing a request for change of academic advisor available in the office of student records. For more information about academic advising, contact the director of academic advising at [advising@rocky.edu](mailto:advising@rocky.edu).

### Levels of Courses

It is recommended that students take courses at the level of their class standing (freshman 100-level, sophomore 200 level, junior 300-level, senior 400-level) provided that specific prerequisites have been met. Taking a course two levels or more above or below the level of class standing is not permitted, except with the approval of the instructor. All courses are further classified as either lower-division, upper-division, or graduate-level. The former are courses numbered 100 to 299; upper-division courses are those numbered 300 to 499. Courses numbered 500 to 699 are graduate level. A minimum of 40 semester hours must be completed in upper-division courses, at least twelve of which must be in the student's major. If a student chooses a minor, six upper-division credits must be completed in the minor.

### Cancellation of Courses

The College reserves the right to cancel any course at any time. Courses are sometimes cancelled if enrollment is low: when enrollment is not at least six for fall or spring semester courses, or at least four for summer session courses.



# Academic Information

## Rocky Freshman Experience (RFE)

The concept of the Rocky Freshman Experience (RFE) grew from research which indicated that Rocky Mountain College students who associated with small groups enjoyed more academic and social success during their first year of college than those who did not. These findings suggested that small learning communities would benefit incoming freshmen. As a result, the RFE was established and is required of all new freshmen. Incoming freshmen choose from a variety of RFE groups ranging from six to eight semester hours and typically limited to around 25 students per RFE group. The discipline-specific courses from which students may choose often fulfill a general education requirement.

Faculty teaching the courses within each RFE group develop their classes together and attend each other's courses. Students meet with their cohorts for both classes, which are frequently scheduled back-to-back, allowing flexibility for shared activities.

The primary RFE goals are to challenge students to think across disciplines, to use ideas from varied disciplines as a catalysts for writing, to create a sense of academic community, and to engage in classroom activities that encourage collaboration in small groups. In addition to the RFE, freshmen are required to attend an orientation seminar called Campus Compass, designed to assist new students in adjusting to college. These seminars are taught by a variety of staff members, thereby providing freshmen access to student service personnel and exposure to college policies and resources

## Regular Courses

All regular course offerings are listed in this catalog. Courses cross-listed at a lower-division and upper-division level may be taken only once for credit unless otherwise noted.

The course schedule is available on CampusPortal and in the office of student records. Courses for which there is small demand are typically offered alternate years or on demand. A course designated as on demand will be offered when there is sufficient number of students requesting the course, usually five or more, and if suitable arrangements can be made. Students should plan their schedules carefully with their advisors to take required courses when they are offered. The course schedule is subject to change.

## Online Courses

Regular courses may also be offered as online courses during any term. They are designated on the course schedule with the section listed as ONL. Students follow the same procedure to register for an online course as they do for a regular course, although they incur an additional fee per credit. In order to begin an online course, students must sign into Moodle, the course management system. In order to login, they must have an enrollment key, which is provided by the professor. Professors will contact students on their official roster during the first days of class through the Rocky email

system with instructions on how to begin using Moodle and with course requirements. If a student does not receive an email from his/her professor, then the student must contact the professor to request information on the course. Online course grades are reported through Campus Portal along with all other regular course grades.

## Special Courses

Guidelines: Special courses use the following workload standards for a credit: 45 hours of student time for each semester hour, or completion of certain prescribed amounts of work or readings, determined at the beginning of the course.

The faculty member in charge is responsible for evaluating the student through oral or written tests, through the presentation of a paper or completed project, or by any other sound means of evaluation.

All special courses are to be taken seriously as academic courses based on advanced planning. They are to be completed by the end of the semester or term when they are started, just as regular classes. Incomplete grades will be given only under unusual circumstances and with the instructor's consent. See "grades" under "academic policies" in the "academics" section of this catalog.

**Note:** Under special circumstances a student may take a regular course by arrangement with a member of the faculty if the student is legitimately unable to attend the regular class sessions and has the instructor's approval. In this case the student should enroll in the course under its regular number, not under directed reading or any other special course number. The guidelines for special courses, however, must be followed when regular courses are taken by arrangement.

## Special Topics 180, 280, 380, 480, 580, 680

Faculty members may arrange, with the approval of the academic vice president, to offer under a special topics number courses not regularly listed in the catalog.

## Field Practicum 291, 391

All programs may offer a field practicum for 1 to 3 semester hours, with the possibility of being repeated up to a total of 12 semester hours. There must be a faculty evaluation of the student's performance, with a statement of the evaluation to be kept with the student's records. Practicum courses are graded on a pass/no pass basis.

## Internship 450

An internship offers a learning experience in a workplace setting for juniors and seniors in any major. To be eligible for an internship, a student must have a cumulative GPA of at least 2.00 and a major GPA of at least 2.25. Only internship credits required by a major may be completed for a letter grade; additional internship credits up to a total of 12 may be completed on a pass/fail basis and applied toward a degree. Internships should be related to the student's major or minor

## Academic Information

area of study and are arranged among a faculty member, the student, and an employer with assistance from the career services office. In majors that do not require an internship, a maximum of 3 credits of internship may be completed for a letter grade; additional internship credits up to a total of 12 may be completed on a pass/fail basis and applied toward a degree. A completed internship learning contract is required prior to registration. Contracts and more information about internship requirements are available from the career services office.

### **Seminar 490, 590, 690**

Many academic programs offer a seminar as a capstone course carrying two to three semester hours of upper-division credit. Admission is restricted to juniors and seniors or master program students.

### **Independent Study 299, 499,**

Independent Study 299 is offered to freshmen or sophomores only by initiation of a faculty member and approval of the academic vice president. Its purpose is to allow work outside of the regularly offered course schedule in exceptional circumstances.

The purpose of Independent Study 499 is to allow a superior student to devise and pursue independent study in an area agreed upon in consultation with a faculty member who will supervise the study, subject to approval of the academic vice president. In order to qualify for such study, a student must 1) major or minor in the program, 2) be a junior or a senior or master program student, and 3) carry a GPA of at least 3.00. Each independent study is 1 to 3 semester hours.

### **Nontraditional Credit**

Recognizing that valuable learning often takes place outside the classroom, the College offers the opportunity to obtain academic credit for nontraditional learning experiences within certain guidelines. Nontraditional credits are not accepted in transfer from another institution.

Nontraditional credit is posted on the transcript after successful completion of one semester of full-time enrollment. Students may apply for non-traditional credit up to the end of their second term of attendance at Rocky Mountain College for work completed prior to enrolling at the college. Applications after the second term of attendance will not be accepted; non-traditional credit will not be granted for work done while enrolled at Rocky.

Non-traditional credits granted are indicated on student transcripts with a grade of "P." There is a \$40/credit transcribing fee. In all cases of nontraditional credit, it is the responsibility of the student to provide sufficient evidence to clearly show that he or she has earned the credit. For further information concerning the application process for non-traditional credit, including guidelines for the specific materials that need to be submitted for each type of non-traditional credit, and associated fees, contact the office of

student records (657-1030). Details about the types of non-traditional credit that can be earned at Rocky Mountain College follow.

### **Challenge of a Course**

Students may challenge courses not previously taken. Approval of the faculty in the discipline and the academic vice president must be obtained, and written notification of successful challenge must be filed with the office of student records. A challenge of a course involves a process whereby faculty members can effectively evaluate the student's knowledge and skills in the content area. Examples of methods faculty may use to evaluate a challenge include exams, having the student write a paper or give a presentation, and/or having the student demonstrate skills in relevant activities.

### **CLEP and DANTES**

Rocky Mountain College recognizes, for college credit, successful completion of one or more of the general examinations or subject examinations of the College-Level Examination Program (CLEP). Credit may also be earned through the Defense Activity for Traditional Educational Support (DANTES) program. Any CLEP or DANTES examinations for credit must be completed by the end of the second semester of enrollment at Rocky Mountain College. More information is available at the student records office (657-1030).

### **Credit for Military Experience and Training (non ROTC course work)**

Credit is evaluated based on the American Council on Education (ACE) recommendations for credit for military experience. Students should submit their information to ACE for evaluation. Once the ACE evaluation is returned, it should be brought to the office of student records who will then evaluate the ACE recommendations and make determinations about which credits will transfer to Rocky Mountain College and how those credits will count toward graduation requirements.

### **Credit for Advanced Learning in High School**

College credit is awarded for advanced work in high school through the advanced placement test (AP) of the College Entrance Examination Board and International Baccalaureate diplomas.

### **Advanced Placement Program**

In order for credit to be granted by Rocky Mountain College, the institution must have a copy of the student's score sheet sent directly from the College Board advanced placement program. Use 4660 as the Rocky Mountain College code.

Rocky Mountain College uses the American Council on Education (ACE) guidelines for determining the minimum score requirements for college credit on each AP exam.

# Academic Information

## **International Baccalaureate Program**

Rocky Mountain College recognizes the standards set by the International Baccalaureate program for awarding college credit. Contact the student records office (657-1030) for more information on how IB credits transfer to Rocky Mountain College.

## **Credit for Prior Learning**

This category of non-traditional credit is only appropriate under restricted and unusual circumstances; it applies to situations where students can document college-level learning in disciplines for which there is no corresponding course to challenge at Rocky Mountain College or any appropriate external examination, such as CLEP or DANTES.

The academic standards committee is responsible for making final decisions about the granting of credit for prior learning; those decisions are typically made after consultation with appropriate faculty from within the College when available, or from other colleges if necessary. To earn academic credit, students are required to provide sufficient evidence to demonstrate that their learning outside of the classroom is equivalent to the content of an academic course. Evidence is presented in the form of a portfolio and typically includes performance tests, essay examinations, and samples of student work. Interviews with faculty or outside experts may also be appropriate.

There is a fee of \$200 for the development and evaluation of the portfolio. Credits granted are subject to a \$40/credit transcribing fee. Students wishing to pursue this option should consult with the office of student records (657-1030) to begin the process.

## **Waivers and Substitutions of Program Requirements**

In exceptional circumstances specific program requirements may be waived or substituted. If the requested waiver or substitution pertains to requirements of a student's major or minor area of study, an exception to the stated requirements may be granted at the discretion of the faculty in the relevant discipline subject to the approval of the academic vice president. Waivers or substitutions related to the general education requirements are, like other exceptions to stated academic policy beyond those already noted, the purview of the academic standards committee (see academic standards committee and student appeals on page 23).

A waiver or substitution may be granted, for example, if a student unexpectedly does not have the opportunity to meet a program requirement because of an unavoidable conflict or because of a course cancellation. Substitutions are preferred over waivers so that the student will have an opportunity to learn most or all of the material by taking another course or combination of courses. When waivers or substitutions are approved, the student must still meet the minimum credit requirement for the major or minor – the student may need to take additional elective courses in the discipline. Students are

not awarded credit for waivers. Waivers and substitutions are not appropriate in cases in which a student believes he or she has already learned the material necessary for the requirement. In such cases, the student should challenge the course (see "challenge of a course" in the non-traditional credit).

## **International Learning Experiences Study, Intern, Work, or Volunteer Abroad**

The office of international programs helps students choose an international experience that best enhances their educational and career goals. Students may choose from semester or year-long exchange programs, short-term faculty-led programs, and courses in which students study on campus for the majority of the semester and travel abroad to culminate the experience. With good planning, an international experience will not delay graduation. The office of international programs also assists students to find internships, work, or volunteer opportunities abroad.

## **Rocky International Exchange Programs**

- Queen's University of Belfast, Northern Ireland
- University of Ulster, Northern Ireland
- Shikoku Gakuin University, Japan
- Obirin University, Japan
- Häme Polytechnic University, Finland
- University of Gävle, Sweden
- Writtle College, England
- Regents American College London, England
- Yangtze University, China
- Guangxi University, China
- Guangxi Normal University, China
- Regents American College London, England

## **Academic Policies**

### **Family Educational Rights and Privacy Act**

The Family Educational Rights and Privacy Act (FERPA) (20U.S.C. 1232g; 34 CFR Part 99) protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the US Department of Education.

### **Notification of Rights under FERPA for Postsecondary Institutions**

The *Family Educational Rights and Privacy Act* (FERPA) affords students certain rights with respect to their education records. These rights include:

- The right to *inspect and review* the student's education records within 45 days of the day the College receives a request for access.

A student should submit to the registrar, dean, head of academic department, or other appropriate official, a written request that identifies the record (s) the student wishes to inspect. The College official will make arrangements for

## Academic Information

access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the College official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

- The right to request the *amendment* of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.

A student who wishes to ask the College to amend a record should write the College official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed.

If the College decides not to amend the recorded as requested, the College will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

- The right to provide *written consent* before the College discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

The College discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted as its agent to provide a service instead of using College employees or officials (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, or assisting another school in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the College.

- The right to *file a complaint* with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Avenue, SW  
Washington, DC 20202-5901

Rocky Mountain College asks that each student fill out a FERPA form indicating a waiver of his or her right, so that

staff and faculty can speak to parents or other individuals that the student identifies on the form. A student also has the right to indicate that he or she does not waive these FERPA rights and thus does not give permission for staff and faculty to share academic information. FERPA waiver forms are available in the office of student records.

### Attendance

Students are expected to be in class regularly and promptly. They are responsible for all assignments, including but not limited to written papers, quizzes, class tests, midterm tests, and/or final examinations, even when ill or representing Rocky Mountain College officially in extracurricular activities such as sporting events.

The academic vice president may, by written notice, place students on a "excused absence only" basis in some or all classes. If, after this notice is given, students are absent from class without adequate reason, the academic vice president may drop the student from a course, or courses.. In the event students are dismissed under the terms of this paragraph, a grade of "F" will be recorded in each course from which the student was dropped. Excused absence on status is originated by faculty through a written warning issued to the student and copied to the academic vice president.

### Examinations

Final examinations are given at the close of each semester. No change in the stated schedule may be made, except by the academic vice president. Faculty members shall report the final grade for each student missing a final examination as "F" unless the academic vice president has excused the absence.

### Requesting a Change in the Final Examination Schedule

Students may request exceptions to the published final exam schedule in cases where adherence to the published schedule would cause undue academic hardship. For example, a student may request the rescheduling of a final exam when the published schedule would require the student to take more than two final examinations on a single day. Since the final examination schedule is published well in advance, exceptions related to personal/travel reasons will not be granted.

Requests for exceptions to the published schedule are initiated through the office of the academic vice president/provost, and an official request form may be obtained therefrom. Requests will be granted only upon the approval of the academic vice president and the course instructor. Completed forms indicating instructor approval must be returned to the office of the academic vice president/provost prior to the earlier of the scheduled examination time or the requested alternate examination time.

### Addition of a Course or Change of Section

Necessary registration changes, such as a change in a course or section, may be made by adding during the first week or

## Academic Information

dropping by the end of the second week at the beginning of the fall or spring terms. Students may not earn credit in any course for which they have failed to register.

### Withdrawal from a Course

A student may withdraw from a course with a grade of "W" up to and including the last day to drop a class as published in the academic calendar. An exception to this date occurs for classes that only meet for part of the semester. For these classes, the student may withdraw from the course with a grade of "W" up to and including the day of the 50% point in the course. After that day a student who withdraws from a course shall receive a grade of "F" in that course. (Students who officially withdraw from the College are not subject to this regulation.) It is required that both the student's advisor and the instructor concerned initial the withdrawal form obtained from the office of student records. Failure to withdraw in the official manner will result in a grade of "F." No withdrawal is official until the proper form has been filed in the office of student records.

### Withdrawal from College

Students contemplating withdrawing from the College must meet with the vice president/dean for student life (or the director of degree completion, if applicable) to discuss the academic and financial implications associated with withdrawing from the College before the end of a semester. Failure to withdraw in the official manner will result in a grade of "F" for each course.

The official withdrawal date will be the date the student notifies the vice president/dean for student life of his or her intent to withdraw. If the student provides official notification of withdrawal to the College by sending a letter to the designated office stating his or her intention to withdraw, the official withdrawal date is the date the College receives the letter. The College has the option of using a later date if it has evidence of attendance by the student at an academically related activity after that date. An academically related activity includes, but is not limited to, a lecture, a lab, an exam, a tutorial, academic counseling, turning in a class assignment, or attending a study group assigned by the institution.

If a student leaves without official notification, the College will attempt to determine a last day of attendance. Although not required to take attendance, many faculty members do take attendance, thus allowing the College to document an academically related activity. If a last day of attendance cannot be identified, and the College can verify the student attended at least one class during the semester, the 50% midpoint of the semester will be used as the withdrawal date. Rocky Mountain College does not have a leave of absence policy.

### Grade Points and Grade Point Average

In order to determine students' scholastic averages, grade points are awarded for each hour of credit as follows: A" – 4 points; "B" – 3 points; "C" – 2 points; "D" – 1 point; "F" – 0

points. Grades of "I," "P," and "W" are not used in calculation of the grade point average (GPA). A plus (+) or minus (-) does not change the value of the grade for calculation of the GPA.

GPA is determined by dividing the number of earned grade points by the number of attempted credit hours. The GPA is used in determining academic probation and suspension, eligibility for intercollegiate athletics, scholastic honors, and granting of degrees.

GPA is understood to mean cumulative GPA unless indicated for one semester. Grade point average for all uses in the College shall be based on all courses accepted in transfer and all courses attempted at Rocky Mountain College. When a student repeats a course, the most recent grade will count toward GPA calculation. The previous grade will remain on the transcript but will not be calculated in the GPA.

### Course Grades

Grades in courses are recorded as follows: "A" – outstanding; "B" – above average; "C" – average; "D" – below average; "P" – pass; "NP" – no pass; "F" – unsatisfactory; "I" – incomplete; "X" – no grade received from the instructor, and "W" – withdrawn. All grades except "I" and "X" become a matter of permanent record.

The "I" grade is given only under unusual circumstances and with the instructor's consent. The instructor must file a completed "request for grade of incomplete" form in the office of student records before the assignment of a grade as "I" (incomplete). An "I" must be made up within one year. After one year it will be permanently recorded as an "F."

Grades not received from faculty by 10 days after the grade due date will be recorded as "F." Grades submitted to the office of student records are final and may not be changed except upon request of the instructor. No grade change can be made more than one year after the end of the semester in which the course was taken.

If a student believes that their grade is incorrect, the student should first discuss the matter with the instructor. The student has the right to appeal their case to the academic standards committee in care of the registrar if talking to the faculty member does not resolve the issue.

### Pass/No Pass Grading Option

The following courses are graded on a pass/no pass basis only: COM247/447, IDS220, music recital courses (MUS020, MUS030, MUS040), varsity sports (PEH100), physical education activity courses (PAC), THR291, all practicum courses. All other courses will be graded on the regular basis ("A", "B", "C", "D", "F"), unless noted. The academic vice president must approve any exceptions. A grade of pass/no pass is not used in computing GPA.

# Academic Information

## Report of Grades

Mid-semester grade reports are progress reports and thus provide students with excellent opportunities to consult with instructors and advisors about problems they may be having. Mid-semester grade reports are available on Campus Portal after mid-term break. These grades are not recorded on transcripts. Only final grades are recorded on transcripts in the office of student records. Final grades are available on Campus Portal approximately one week after the end of the term. See the academic calendar for grade due dates.

## Dean's List

Students who carry a full load (12 or more semester hours) of work graded with grade points and who earn a GPA of 3.60 or higher for the semester are placed on the Dean's List. Those with a GPA of 4.00 for the semester are recognized with high honors. Only students who complete all credits attempted for the semester are eligible for these lists.

## Graduation with Honors

Honors at graduation are designated for associate of arts, bachelor of arts, and bachelor of science degrees as follows: summa cum laude, GPA 3.80 or above, magna cum laude, GPA 3.60-3.79, cum laude, GPA 3.40-3.59. An honors designation is not calculated for those earning the master's degree.

The grade point average for graduation with honors is computed on the basis of all courses attempted, both at Rocky Mountain College and at any other college. The GPA for all work taken at Rocky Mountain College must be above the level for the honor awarded.

Honors listed in the graduation program are calculated through the December prior to graduation ceremonies. Honors at the point of graduation will be noted on both the diploma and on the student's transcript.

## Application for Graduation

All students intending to graduate in May during the current academic year must file an application for graduation by September 1. There is a \$100 graduation application fee, which includes the diploma, diploma cover, and commencement cap and gown. Applications received after September 1 and on or before February 15 will incur an additional late graduation application fee of \$25. After February 15, any student filing an application for graduation will not be allowed to participate in the graduation ceremony. All students intending to graduate in December must file an application for graduation by February 1 of the previous academic year (\$100 fee). Applications received after February 1 will incur a late graduation fee (\$25). Graduation ceremonies for the academic year are in May.

Students will be permitted to participate in graduation ceremonies under the following conditions:

- Applications must be received by the respective deadline. See above for timeline.

1. Applications must be completed by the student and signed by the advisor.
  2. Advising sheets for each major, minor and general education requirements must be completed and attached.
- All coursework must be scheduled for completion by the end of the last term of enrollment. Students applying for spring graduation may complete a maximum of six credits in the summer term if a plan and enrollment documentation is submitted to the student records office by March 1.
  - Student accounts must be in good standing by April 1.

## Transcripts

Transcripts are available upon the student's written request to the office of student records. Each official transcript costs \$7.00, which must be paid before transcripts will be issued. Transcripts will not be issued for students who are not in good financial standing with the College.

## Diplomas

Official diplomas are awarded upon completion of all degree requirements at Rocky Mountain College. Individuals who wish to order replacement copies of previously awarded diplomas may do so by submitting a written, signed request to the office of student records. A replacement fee of \$35.00 is required along with the request. Replacement diplomas will reflect the date in which the degree was awarded, however, it will include the signatures of current officers of the College.

## Academic Standards Committee and Student Appeals

The academic standards committee is the body of original jurisdiction for student requests to be granted exceptions to the standard academic policies of the College. The academic standards committee has jurisdiction over all such matters unless specifically noted otherwise in this document (see waivers and substitutions of program requirements, academic standing, and academic integrity). Common examples of student requests appropriate to the academic standards committee involve exceptions to the general education requirements and other requirements for graduation, exceptions to the College's drop/add policy, and exceptions to the College's policy related to participation in graduation ceremonies.

Requests for exceptions must be submitted in writing to the office of student records. Requests should be accompanied by a letter of support from the student's academic advisor or an appropriate faculty member. Students should take steps to ensure that their requests reference specific policies to which they are seeking exceptions and specific desired remedies.

Decisions of the academic standards committee may be appealed to the academic vice president/provost. Any appeal must be submitted, in writing, within 10 days of receipt of the academic standards committee's decision.

# Academic Information

In some cases, requests made of the academic standards committee may be referred to an appropriate faculty member and/or academic division chair for informal resolution. In such cases, students should provide documentation of the results of said attempts should they desire to reinstate their request with the committee.

## Satisfactory Academic Progress

### Academic Standing: Probation and Suspension

Students at Rocky Mountain College are expected to make progress toward attaining their degree. The criteria for good academic standing are as follows:

If ...	Then ...
Term GPA 0.00.	Academic Suspension for the following term. (S)
Term GPA < 2.00 and/or cumulative GPA is < 2.00	Academic Probation for next term. (P)
Term GPA < 1.00 and cumulative GPA is < 2.00	Academic Suspension for next term. (S)
Probation term: Term GPA $\geq$ 2.00 and cumulative GPA < 2.00.	Academic Probation for following term. (P)
Probation term: Term GPA < 2.00 and cumulative GPA < 2.00.	Academic Suspension for next term. (S)
Readmitted by Appeal, following pending suspension	Academic Probation for next term (P)
Upon second suspension or pending suspension status.	Dismissal (D)

A student may appeal an academic suspension by indicating in writing the reasons why he or she did not make satisfactory academic progress, submitting a letter of support from a faculty member or academic advisor and submitting a plan for improvement. The appeal must be made by the deadline provided in the notification of suspension and directed to the office of student records. The office of student records will forward appeals to the academic progress committee for

review. If the appeal is granted the student's standing will become probationary.

Students on probation must adhere to certain guidelines.

These include enrolling for no more than 13 credits, meeting weekly with his or her academic advisor and seeking assistance from other resources.

Suspended students may be re-admitted after one semester's absence. Re-admission requires submission of an application for re-admission to the office of student records, and consideration by the academic progress committee. If re-admission is approved, the probationary status shall be continued until good academic standing is restored.

Students may lose eligibility for financial aid while on probation or suspension. Check with the financial aid office for more information.

Probation, suspension, and dismissal are permanently recorded on the student's transcript.

### Academic Integrity

Academic integrity at Rocky Mountain College is based on a respect for individual achievement that lies at the heart of academic culture. Every faculty member and student belongs to a community of learners where academic integrity is a fundamental commitment. This statement broadly describes principles of student academic conduct supported by all academic programs. It is the responsibility of every member of the academic community to be familiar with these policies.

### Basic Standards of Academic Integrity

A student's registration at Rocky Mountain College implies agreement with and requires adherence to the College's standards of academic integrity. These standards cannot be listed exhaustively; however, the following examples represent some types of behavior that violate the basic standards of academic integrity and which are, therefore, unacceptable:

- Cheating:** using unauthorized notes, study aids, or information on an examination; altering a graded work after it has been returned, then submitting the work for re-grading; allowing another person to do one's work and submitting work under one's own name; submitting identical or similar papers for credit in more than one course without prior permission from the course instructors.
- Plagiarism:** submitting material that in part or whole is not entirely one's own work without attributing those same portions to their correct source; not properly attributing words or ideas to a source even if not quoting directly; quoting from another author's writing without citing that author's work, including material taken from the internet, books, and/or papers; citing, with quotation marks, portions of another author's work but using more of that work without proper attribution; taking a paper, in whole or part, from a site on the internet or a "library" of already-written papers, copying work from another student.

## Academic Information

3. *Fabrication*: falsifying or inventing any information, data or citation; presenting data that was not gathered in accordance with standard guidelines defining the appropriate methods for collecting or generating data and failing to include an accurate account of the method by which the data was gathered or collected.
4. *Obtaining an unfair advantage*: (a) stealing, reproducing, circulating or otherwise gaining access to examination materials prior to the time authorized by the instructor; (b) stealing, destroying, defacing or concealing library materials with the purpose of depriving others of their use; (c) unauthorized collaboration on an academic assignment; (d) retaining, possessing, using or circulating previously given examination materials, where those materials clearly indicate that they are to be returned to the instructor at the conclusion of the examination; (e) intentionally obstructing or interfering with another student's academic work; or (f) otherwise undertaking activity with the purpose of creating or obtaining an unfair academic advantage over other students.
5. *Aiding and abetting academic dishonesty*: (a) providing material, information, or other assistance to another person with knowledge that such aid could be used in any of the violations stated above, or (b) providing false information in connection with any inquiry regarding academic integrity.
6. *Falsification of records and official documents*: altering documents affecting academic records; forging signatures of authorization or falsifying information on an official academic document, grade report, letter of permission, petition, drop/add form, ID card, or any other official College document.
7. *Unauthorized access to computerized academic or administrative records or systems*: viewing or altering computer records, modifying computer programs or systems, releasing or dispensing information gained via unauthorized access, or interfering with the use or availability of computer systems or information.

### Due Process and Student Rights

Enforcement of the standards of academic integrity lies with the faculty and the academic division. In all cases involving academic dishonesty, the student charged or suspected shall, at a minimum, be accorded the following rights:

1. Be apprised of the charge(s) against him or her;
2. Be provided with an opportunity to present information on his or her behalf;
3. Be given the right to appeal any decision of an individual faculty member or the academic progress committee to the academic vice president or judicial council. Appeals to the academic vice president must be submitted in writing within 48 hours of the student being formally sanctioned.

Appeals utilizing the Rocky Mountain College judicial process should follow the procedures outlined in the student handbook.

### Sanctions

All proven cases of academic dishonesty will be penalized as appropriate under the circumstances. Individual faculty members may take the following actions:

- Issue a private reprimand;
- Issue a formal letter of reprimand;
- Reduce the student's grade or fail him or her in the course.

All incidents of academic dishonesty will be reported to the registrar who reserves the right to forward the matter to the academic progress committee for further action. The committee may take the following actions:

1. Define a period of probation, with or without the attachment of conditions;
2. Withdraw College scholarship funding;
3. Define a period of suspension, with or without the attachment of conditions;
4. Expel the student from the College;
5. Make a notation on the official record;
6. Revoke an awarded degree; or
7. Act on any appropriate combination of 1-6 above.

### Faculty and Administrative Responsibilities

In order to implement these principles of academic integrity, it is necessary for the administration and faculty to take certain steps that will discourage academic dishonesty and protect academic integrity:

1. Rocky Mountain College will regularly communicate to the College community its academic standards and expectations through its institutional publications. Further, the College will encourage and promote open dialogue and discussion about issues affecting academic integrity.
2. Instructors should inform students of the academic requirements of each course. Such information may include (a) notice of the scope of permitted collaboration; (b) notice of the conventions of citation and attribution within the discipline of the course; and (c) notice of the materials that may be used during examinations and on other assignments.

### Student Records

*Leslie G. Edwards, Registrar*

*Carole Peterson, Director of Student Records*

Official academic records of students are kept only in the office of student records. The information is of three types: personal information supplied by the applicant; educational records, including records from previous institutions, including high school and/or colleges attended; and scholastic records as supplied by the student's college teachers.

Information pertaining to the student's scholastic records is kept in permanent records available only to the academic vice president, registrar, the student records director, and others with the student's written consent; and in an academic profile, which includes grades, semester and cumulative averages, and progress toward the completion of degree requirements.



Particularly helpful at the time of registration, the latter records are available to the student and those serving as the student's academic advisors.

Other items (for example, copies of letters sent to students regarding academic and/or social disciplinary action) are placed in the student's personal file. This information is periodically destroyed after the student has left the College and when the files are sorted for storage.

Students have the right to request the privilege of looking at their files. However, the College reserves the right to delay access to a student's personal file for a period of up to 45 days in accordance with the provisions of the Buckley/Pell Amendment. Transcripts of records will be sent only upon the individual student's written request except where grades determine eligibility for a scholarship, which the student has accepted or for which the student has applied.

Final grades will be available on Campus Portal approximately one week after the end of each term.

Rocky Mountain College has the responsibility and the authority to establish standards for scholarship, student conduct, and campus life. The policies which govern these standards recognize the College as part of the larger community bound by federal, state, and local legislation; as a unique academic enterprise, the College embraces regulations which are intended to create, preserve, and foster the freedom to learn.

# Financial Assistance

Jessica Francischetti  
Director of Financial Assistance

## Types of Financial Assistance

There are three types of financial assistance available to students attending Rocky Mountain College:

1. Grants and scholarships
2. Loans
3. Work opportunities

Students who intend to apply for financial assistance must be accepted for admission to Rocky Mountain College (see the Admissions section of the catalog).

## Institutional Grants and Scholarships

Rocky Mountain College provides institutional grants and scholarships from the College's financial resources based on financial need and/or merit. A student is not required to apply for federal student assistance in order to be eligible for Rocky Mountain College financial assistance, however doing so will ensure you are considered for all financial assistance from RMC, as well as all federal aid. Rocky Mountain College students obtaining their first baccalaureate degree who are in good academic standing and enrolled full-time (12 credit hours or more) are eligible for institutionally funded financial assistance for up to the number of semesters it would take to normally receive the degree they are seeking. If a student is in a four-year program, institutional aid will be granted for four years. Students enrolled in a master's degree program are not eligible for institutionally funded grant assistance. The maximum institutional merit scholarship amount for which a student is eligible is awarded to the incoming student and is renewable to the student within institutional packaging policy requirements. These scholarships are determined by using a calculated index based on an ACT/SAT score and high school GPA for incoming freshmen. Transfer students are awarded merit scholarships based on prior academic performance at their former school(s). Students are eligible for only one institutionally funded merit scholarship each year. To ensure institutional grants and scholarships are renewed appropriately, all returning Rocky Mountain College students (i.e., sophomores and older) must complete the RMC Grant & Scholarship Renewal Form by April 1 every year. This form can be found on line at <http://bismuth.rocky.edu/finaid/index.php>. Institutional scholarships are not awarded in the summer term.

**Merit-Based Scholarships:** For students entering RMC in the 2012-13 academic year these scholarships include but are not limited to:

Trustee scholarship	\$12,000 Freshmen \$11,000 Transfer students
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Presidential scholarship	\$10,500 Freshmen \$10,000 Transfer students
Deans scholarship	\$7,000 Freshmen \$7,000 Transfer students
RMC Grant	\$5,000 Transfer Students

**Athletic Grants:** Rocky Mountain College athletic grants are available for football, men's/women's basketball, men's/women's alpine skiing, men's/women's cross country, women's volleyball, men's/women's golf, men's/women's soccer, and cheerleading. Awards are made by the office of financial assistance in consultation with each sport's coach. Amounts and annual renewal of athletic grants are determined by the coach.

**RMC Bear Grant:** Students who complete a Free Application for Federal Student Aid (FAFSA) and demonstrate financial need after merit and athletic award amounts are determined may be eligible for this grant. Amounts vary according to need.

**Other Grant and Scholarship Opportunities:** Rocky Mountain College funds students through the generosity of many donors. Students will be considered for annually funded and endowed scholarships based in part on the information provided on their admissions application. Scholarships not administered by Rocky Mountain College provide many students with aid to attend college. In most cases the student must apply directly to the donor group. These grants must be reported to the office of financial assistance. Many Rocky Mountain College students have received help from such organizations as the Veterans Administration, ROTC, vocational rehabilitation, Indian Health Service, fraternal organizations, service clubs, and local and national churches.

## Federal Financial Assistance

To be eligible for federal financial assistance students must be enrolled as a degree seeking student. Students seeking federal financial assistance must complete a Free Application for Federal Student Aid (FAFSA) and request that the information be sent to Rocky Mountain College, Title IV school code 002534. With this application form, the student's financial need, eligibility for the federal student financial aid programs and many Rocky Mountain College scholarships/grants are determined. The FAFSA is available online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov), or a paper FAFSA can be requested at the College's financial aid office. The preferred method for completing the FAFSA is online. The College will receive the results electronically when a student lists Rocky Mountain College as a college choice. Students who wish to be considered for federal financial assistance will need to complete the FAFSA each academic year by April 1 to ensure they receive the maximum aid for which they qualify.

## Financial Assistance

**The types of federal aid students may receive are as follows:**

**Federal Pell Grant:** Based on the demonstrated financial need of the student as determined by the federal government when a student submits the Free Application for Federal Student Aid (FAFSA). Pell Grants are awarded to undergraduate students with high financial need who have not previously earned a bachelor's degree.

**Federal Supplemental Educational Opportunity Grant (FSEOG):** Based on the demonstrated financial need of the student as determined by the federal government when a student submits the Free Application for Federal Student Aid (FAFSA) and awarded by the financial aid office as long as funds are available. Priority for this grant is given to Federal Pell Grant eligible students.

**Federal Teacher Education Assistance for College and Higher Education:** This federal program provides funds to students who are completing coursework that is required to begin a career in teaching, and who agree to teach full-time for at least four years:

- As a highly qualified teacher;
- At a school servicing low-income students; and
- In a high-need field.

The four years of teaching must be completed within eight years after a student completes or otherwise ceases to be enrolled in the program for which he/she received a TEACH Grant. If a student fails to complete the four year teaching requirement the TEACH Grant funds will be converted to a Federal Direct Unsubsidized Stafford Loan. The maximum award is \$4,000 per year. Students must complete a FAFSA, although do not have to show financial need. To be eligible, a student must score above the 75th percentile on a college admission test or maintain a cumulative GPA of 3.25 or higher. Students must be formally accepted into the Rocky Mountain College Teacher Education Program. Students must complete a TEACH Grant Initial and Subsequent Counseling and sign a new ATS each year a TEACH is requested. Students must complete TEACH Grant exit counseling when they complete or cease to be enrolled in the program for which they received the grant.

**Federal Direct Student Loans:** This loan program provides low interest loans to students in order to pay for their educational expenses. Students must be enrolled at least half time. The Direct Loan program offers both need based (subsidized) non-need (unsubsidized) loans. Subsidized Direct Loans do not accrue interest while the student is in school. The federal government pays interest on the loan, or subsidizes it, until the student goes into repayment. Unsubsidized Direct Loans begin to accrue interest from the time the loan is disbursed. If a student allows the interest to accumulate, it will be capitalized (added to the principal amount of the loan) and will increase the debt. Dependent students whose parents have been denied a parent loan may be eligible to

borrow additional unsubsidized Stafford loan amounts. The financial aid office determines eligibility for either of the above loans by the student's financial need, grade level and dependency status. The type of loan for which the student is eligible will be included with the financial aid award letter. Federal regulations require all students borrowing a Direct Loan for the first time to participate in a loan counseling session and complete a Master Promissory Note (MPN) before receiving the first disbursement of their loan. Students do not need to fill out a MPN every year. Once a MPN is completed the first year, it is good for ten years. The interest rate for Subsidized and Unsubsidized Direct loans is fixed at 6.8%. There is a loan fee of 1% which will be deducted from each loan disbursement. Repayment begins six months after the student graduates, withdraws, or drops below half-time enrollment.

**Direct Parent Loan (PLUS):** This loan is also part of Direct Loan program. As the name states, the parent is the borrower. This loan is not based on need and all parents of dependent students are eligible to apply. The parent must be credit worthy or have a credit worthy endorser. The maximum amount available is determined by subtracting the student's total financial assistance from the cost of attendance. The parent borrower must complete a Master Promissory Note and a Parent PLUS Loan Request Authorization Form. The Parent PLUS Master Promissory note only needs to be completed once. It, like the MPN for students, is good for ten years. The PLUS Loan Request Authorization Form must be completed annually. There is a 4% loan fee which will be deducted from each loan disbursement. The interest rate is fixed at 7.9%. Repayment begins 60 days after the loan is fully disbursed.

**The Grad PLUS:** This loan is available to graduate students. The student must be credit worthy or have a credit worthy endorser. The maximum amount available is determined by subtracting the total financial assistance from the cost of attendance. Graduate students borrowing a Grad PLUS Loan for the first time must complete an online loan counseling session and a Master Promissory Note (MPN) before receiving the first disbursement of their loan. Students do not need to fill out a MPN every year. Once a MPN is completed the first year, it is good for ten years. There is a 4% loan fee which will be deducted from each loan disbursement. The interest rate is fixed at 7.9%, and repayment begins 60 days after the loan is fully disbursed.

**Federal Perkins Loan:** This loan is awarded to the student by Rocky Mountain College. Perkins loan are awarded to students who have a high unmet need after all grant aid is awarded. Loan funds are limited so the federal Perkins loan is awarded to students on a first-come, first-served basis. Students must be enrolled at least half time (6 credit hours). Primary consideration is given to full time students. A student accepting a federal Perkins loan must sign a Master Promissory Note and complete an online loan counseling

# Financial Assistance

session before the loan can be disbursed. This MPN is good for ten years. Repayment of the loan and accumulation of the 5% interest does not begin until nine months after the student graduates, drops below half time, or withdraws from college.

**Work Opportunities:** Work opportunities are available to qualified students in the form of work-study. Work-study will be awarded to eligible students as part of their financial aid package. Work-study is the last source of funding to be added to a student's award package after their maximum federal and institutional grants and scholarships and loans have been determined. Priority for work-study awards is given to students who have demonstrated the greatest financial need, according to the current year awarding model, as determined by a completed FAFSA. These students will be awarded Federal College Work Study. The maximum amount of work packaged will be up to the equivalent of 10 hours per week at the current minimum wage, depending on the student's need.

We recognize that there are some student positions that require a special skill set, such as class tutors, academic lab assistants, life guards, etc. that cannot be filled with a student who does not possess the required knowledge or skills. RMC Campus Employment or RMC Non-Need Work Study may be awarded to specific students needed to fill these positions upon request of their supervisor, and do not necessarily need to show financial need.

Funding for federal and institutional work-study is limited and is awarded on a first-come, first-served basis. If a student who has not been awarded work-study requests it to be added to his/her award, every effort will be made to accommodate that request. If work cannot be added to his/her award at the time of the request, the student may be placed on a waiting list. If funds become available, students on the waiting list will be considered for an award based on their eligibility.

Work-study positions are available in various areas on campus or with off-campus community service jobs such as reading and math tutors. Although every effort is made to provide students with work-study jobs, the College cannot guarantee a student will be able to earn the amount of money initially awarded. Job availability, funding issues, and class schedules can prevent a student from participating in work-study. Off-campus employment is available throughout the Billings area. The Career Services office receives inquiries for all off-campus job opportunities.

**Verification:** Approximately 30% of all FAFSA applicants are selected by the Department of Education for a process called verification. In this process the school is required to compare information from the FAFSA with signed copies of the Verification Worksheet, the student (and parents')

Federal tax documents, W-2's or other financial documents. If there are differences between the FAFSA information and the financial documents provided, Rocky Mountain College will make the corrections electronically. Verification must be completed before any federal grants or loans will be disbursed. Failure to complete verification will result in the cancellation of all federal and institutional need-based aid.

**Re-evaluation:** In some cases, the Financial Aid Office can re-evaluate aid eligibility based on special circumstances. Special circumstances include the death of a parent or spouse, loss of employment, divorce, and unusual debt or expenses. Students wishing to have their financial aid evaluated based on special circumstances need to complete the Appeal for Special Financial Consideration form which is available in the Financial Aid Forms area on the Rocky Mountain College website.

**Determining Aid Eligibility:** Several components are used to determine a student's aid eligibility. In the spring of each year a cost of attendance is determined for the following academic year. The cost of attendance for a full-time resident student for 2012-13 is as follows:

Tuition and fixed fees:	\$22,892
Room and Board allowance:	\$7,160
Books and Supplies:	\$1,300
Personal Expenses:	\$3,000
Total Cost of Attendance:	\$34,314

If a student has applied for federal financial assistance, the Expected Family Contribution (EFC) on the student's FAFSA is subtracted from the Cost of Attendance to determine a student's financial need per federal eligibility guidelines. To help meet a student's financial need, aid is awarded by first determining a student's maximum eligibility for federal and institutional grants and scholarships, then loans, then work. Financial aid packages are calculated using information available at the time of packaging and may be revised due to changes in enrollment and/or financial status changes. Most aid is disbursed evenly between fall and spring semesters. Students seeking financial assistance for summer terms should contact the Financial Aid office. Grants, scholarships and loan funds are disbursed by applying them to the student's RMC student account. Work-study is paid to the student monthly as earned.

When a new student's financial assistance eligibility has been determined, a financial assistance award notice will be mailed to the student. Returning students' award notices will be made available online in Campus Portal. Instructions about accepting the award online will be mailed to students when the award is complete. All consumer information regarding the award is also available online.

# Financial Assistance

## Satisfactory Academic Progress

Federal regulations and Rocky Mountain College policy require students to maintain satisfactory academic progress (SAP) toward a degree. All federal, state and institutional scholarship, grant, loan and work-study programs are covered by this policy. All financial aid applicants must meet SAP policy standards regardless of whether he or she has received financial aid previously. The following standards represent the minimum performance requirements to receive financial assistance and do not necessarily coincide with academic program requirements.

There are three dimensions to the satisfactory academic progress standards: maintaining the minimum required cumulative grade point average (GPA), successfully completing a degree at the required pace, and completing within an established time frame.

**Minimum Cumulative GPA:** Students must maintain a cumulative GPA of at least 2.0. Transfer students must also maintain a cumulative GPA of 2.0 in the credits attempted at Rocky Mountain College.

**Pace:** Pace is measured by dividing the cumulative number of earned credit hours by the cumulative number of credit hours the student has attempted at the completion of each academic period. Students must complete at least 67 percent of all credits attempted, including transfer credits. Attempted credits are determined based on a student's credit load at the end of the drop/add period for each term. Grades of "I," "IP", "W," "F," "WF," and "NP" are considered to be courses attempted but not successfully completed and will be counted as such in the determination of completion ratios. Audit classes are not considered in SAP measurement. If a student fails a course and repeats it, the grade for the last course attempted will be used to compute the academic/financial aid record and the credits will be included in the credits attempted. Students can receive aid for one repeat of a previously passed course.

**Maximum Time Frame:** Federal guidelines expect undergraduate students to complete their degree objective within 150 percent of the published length of the educational program. For example, a student enrolled in a bachelor's degree program requiring 124 semester credits in order to graduate could attempt up to 186 credits before federal student financial aid would be terminated. Transfer credits will be included in the overall number of attempted and completed credits. RMC also expects students to complete their degree within a reasonable timeframe. Institutional assistance is available to full-time students up to the number of semesters it would take to normally receive the degree they are seeking. If a student is in a four-year program, institutional aid will be granted for four years. Students can appeal this institutional aid policy if they have planned carefully and successfully completed 15 to 16 credits per semester but still need an

additional one or two semesters to complete their degree.

**Monitoring Progress:** Financial Aid Satisfactory Academic Progress at RMC is measured at the end of each semester and summer term. The overall cumulative grade point average (GPA), pace and maximum time frame assessment will be based on the student's entire academic record, including all transfer credits accepted.

**Failure To Maintain Satisfactory Academic Progress:** Students will be notified in writing if they have failed to meet the above standards.

A student is usually put in a warning status the first time he or she fails to meet the above standards. A student on financial aid warning may continue to receive financial aid, with the exception of work study, for one payment period. Work study termination may be appealed in writing to the director of financial aid. This appeal must include an explanation of the warning status, a plan of action to meet the conditions of the warning, and why working will not jeopardize that plan. At the end of the warning period a student's satisfactory progress will be evaluated again. If it is determined that the student is meeting the minimum progress standards, the student will be considered to be in good standing and may receive financial aid in the upcoming payment period.

If the student fails to meet the minimum satisfactory academic standards after the warning period, aid will be terminated for the upcoming period. Financial aid will be terminated for students with less than a 2.0 cumulative GPA after 4 semesters of attendance. The academic standards committee may place a student on academic suspension if their term GPA is less than a 1.0. If a student is suspended for this reason, his or her aid will be terminated as well. Aid is terminated for students who are dismissed from RMC.

Students whose financial aid has been terminated may regain eligibility for financial assistance by re-establishing the required GPA and/or completion ratios using their own resources. If a student regains satisfactory progress they may receive financial assistance for the payment period in which they regain eligibility, but not for any payment period in which the student did not meet the standards. It is the responsibility of the student to notify financial aid personnel when he or she has re-established satisfactory academic progress.

**Right To Appeal:** Financial assistance terminations, like academic suspensions, may be appealed. Appeals must be in writing and submitted to the director of financial assistance by November 15th for the fall semester, March 31st for the spring semester and May 10th for the summer term. The academic appeals committee must grant academic reinstatement to students on academic suspension before the Financial Aid Office will consider an appeal for financial aid eligibility reinstatement.

## Financial Assistance

The appeal should include a personal statement that clearly details the circumstances that hindered the student's academic performance, how the circumstances have been resolved or managed to permit the student to meet the standards, and relevant documentation should accompany the appeal form. Acceptable reasons to appeal include but are not limited to: illness or injury of the student, illness or death of an immediate relative of the student, military service, divorce or separation of student/spouse, etc.

A student whose aid is suspended due to maximum time frame must clearly detail what coursework is needed to complete the degree with their appeal. Acceptable reasons to appeal maximum time frame include but are not limited to: change of major, transfer credits that did not apply toward your degree/program, etc.

The appeal will be reviewed by the financial aid director and staff. If it is determined that the student will not achieve the minimum SAP requirements within one payment period they will be asked to complete an academic plan outlining how, if followed, the student will achieve the minimum academic standards, as well as a timeframe in which the student expects to be back in compliance with the standards. Generally, appeals will be granted for extraordinary circumstances beyond the student's ability to control, such as those described above. A decision written regarding the appeal will be sent to the student in a timely manner. If the appeal is approved, the student will be placed on financial aid probation and will be eligible to receive financial assistance for one payment period. If the appeal is denied, the student will also receive written notification.

### **Return of Federal Title IV and Institutional Funds**

The College is required to calculate the amount of Federal Title IV funds to be returned for a student who has withdrawn from all classes. The withdrawal calculation for institutional funds is the same as the Title IV calculation. RMC's policy conforms to federal regulations. This policy governs the return of Federal Title IV and institutional funds disbursed for a student who completely withdraws from a term. It does not apply to students who have dropped some classes but remain enrolled in other classes.

Students who must withdraw from the College must meet with the vice president/dean of student life before the end of the term to obtain the official withdrawal form. The student then follows the instructions on the form to obtain the necessary signatures and return the form to the appropriate office. The official withdrawal date will be the date the student notifies the vice president/dean of student life. If the student withdraws without official notification, the College will determine the last date of attendance. This date is generally the student's last date of attendance at a documented academically-related activity. Academically related activities include, but are not limited to a lecture, a lab, an exam,

or attending a study group. Residing in institution-owned facilities or eating at institution provided food services are not considered to be academically related activities. If a last day of attendance cannot be determined and the College can verify the student attended at least one class during the term, the 50% point of the semester will be used as the withdrawal date. RMC does not have a leave of absence policy.

The assumption of this policy is that a student earns aid based on the period of time he/she remains enrolled. Title IV and institutional 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 withdraws, the student may no longer be eligible for the full amount of financial assistance that the student was originally scheduled to receive. Up through the 60% point in each period of enrollment, a prorated schedule is used to determine the amount of Title IV and institutional funds the student has earned at the time of withdrawal. After the 60% point in the period of enrollment, a student has earned 100% of the Title IV and institutional funds he or she was scheduled to receive during the period.

The amount of disbursed Title IV and institutional aid that exceeds the amount of aid earned under the required formula is considered to be unearned. Unearned Federal Title IV funds and institutional grants and scholarships must be returned. 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 received.

To determine the percentage of time a student has been enrolled, the number of days the student remained enrolled is divided by the number of days in the period. Calendar days are used, but breaks of at least 5 days are excluded from both the numerator and denominator. The number of days used to determine the enrolled percentage normally includes weekends; however, scheduled breaks are measured from the first day of the break to the next day that classes are held.

The responsibility to repay unearned aid is shared by the institution and the student in proportion to the aid each is calculated to possess. Depending on the length of time the student has attended, school charges that were previously paid by financial aid funds might become a debit that must be repaid. The College will return its share of unearned Federal Title IV funds no later than 45 days after it determines that the student withdrew. The student must repay his/her share either by (1) paying loans in accordance with the terms and conditions of the promissory note or (2) repaying grants directly to the Department of Education and/or RMC. If the student owes an overpayment of Title IV grant funds to the Department of Education, the College will report the amount owed to the Department of Education through the National Student Loan Data System (NSLDS).

## Financial Assistance

The student will not be eligible for future federal financial aid funds until repayment arrangements have been set up with the Department of Education or until the overpayment has been paid in full. If the student owes a balance to the College, the amount is due at the time of withdrawal. Arrangements for monthly payments may be set up if the student cannot pay the total amount at that time. The student will not be able to validate his/her enrollment, attend future classes, obtain transcripts, or diplomas until the balance is either paid in full or payment arrangements have been made. A student can determine how much Federal Student Aid he or she will retain and how much he or she may have to return upon withdrawing by contacting the Student Accounts Office.

# Tuition and Fees

The board of trustees of Rocky Mountain College reserves the right to change the fee schedule without prior notice. For the 2012-2013 academic year tuition and fee schedule, see the office of the chief financial officer.

## 2012-2013 Academic Year Schedule

Tuition and general fees per semester(12-19 credits)	\$11,221.00
Tuition, part-time (per credit)	935.00
Tuition, summer session (per credit)	350.00
Teacher Recertification program (summer; per credit)	175.00
Academic lab fee (per semester)	60.00
Campus technology fee	85.00
ASRMC student government fee (per semester)	65.00
ASRMC publication fee (per year)	15.00
Audit fee (per course)	125.00
Audit fee, age 60 or above (per course)	125.00
"Explore College During High School" tuition (per credit)	148.00
Credit for prior learning portfolio evaluation/development fee	200.00
Non-traditional credit transcribing fee (per credit)	40.00
CLEP/DANTES fee (per credit)	40.00
DANTES test fee (per test)	75.00
CLEP test fee (per test)	100.00
ACT test fee (per test)	35.00
Study Abroad Fee (outgoing-includes ISEP)	150.00

## Miscellaneous Fees

Admissions deposit	250.00
Application fee (non-refundable; waived for online applications)	35.00
Late registration/validation fee (Initial)	50.00
Late registration/validation fee (Final)	150.00
Graduation application fee	100.00
Late graduation application fee	25.00
Transcript Fee (each)	7.00
Transcript Rush Fee (each)	15.00
ID card replacement	10.00
Parking card replacement	10.00
MMR injections	10.00
Overload fee (per credit over 19 credits)	935.00
Returned check fee (per check)	25.00
Online course fee (fully online) per credit	50.00
Education student transcript review and licensure audit	75.00



## Tuition and Fees

### Housing Fees (per semester)

#### *Widenhouse Hall*

Single	1904.00
Double	1681.00
Triple	1455.00
Quad	1289.00

#### *Anderson Hall*

Large single	1639.00
Small single	1147.00
Double	1147.00
Triple	874.00

#### *Jorgenson Hall*

Apartment deposit	450.00
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Cost differs for each unit. Refer to the housing office.

#### *Rimview Hall*

Private room (4-room suite)	2036.00
Forfeiture (residence hall contract penalty)	150.00

### Residence Board Meal Plans (per semester)

19 meals/week (the carte blanche meal plan)	1899.00
10 meals/week	1677.00
100 meals total	844.00
50 meals total	465.00

### Education Program Fees

Field practicum fee	52.00
Student teaching fee (K-12)	283.00
Student teaching fee (Elementary)	250.00
Student teaching fee (Secondary)	250.00

### Equestrian Fees

Returning students	300.00
New students	500.00
Equestrian boarding fee (per semester)	2860.00
Equestrian summer boarding fee	1000.00
Therapeutic Riding Horse Usage	360.00
Equestrian boarding deposit (per semester; paid against boarding fee)	

Students required to use a horse(s) in their equestrian curriculum must reserve a stall(s) prior to the beginning of each semester. The reservation is made by paying a \$300 (returning students) or \$500 (new students) stall deposit for each horse by July 1 (for Fall semester) and December 1 (for Spring semes-

ter) of each year. The deposit will be applied to the student account. If a student reserves a stall and does not board a horse in the semester for which the deposit was made, the deposit is forfeited for that semester.

### Aviation Lab Fees

Private Pilot Flight Lab AVS153	10200.00
Winter Survival AVS 243	100.00
Instrument Rating flight Lab AVS253	9200.00
Commercial Pilot Flight Lab I AVS272	4200.00
Commercial Pilot Flight Lab II AVS273	5200.00
Commercial Pilot Flight Lab III AVS274	6600.00
Altitude Chamber Training AVS 343	500.00
Certified Flight Instructor Flight Lab AVS361 (FAA part 141)	6000.00
Instrument Flight Instructor AVS362 (FAA part 141)	3300.00
Multi-Engine Flight Instructor AVS363 (FAA part 61)	8700.00
Certified Flight Instructor Flight Lab AVS371 (FAA part 61)	4200.00
Instrument Flight Instructor AVS372 (FAA part 61)	1600.00
Multi-Engine Flight Instructor AVS373 (FAA part 61)	2700.00
Multi-Engine rating Flight Lab AVS376	5900.00
Crew Resource Management with Lab AVS404	450.00
Air Transportation & Flight Operations AVS 405	50.00
Intercollegiate flight team	400.00

### Cost per flight hour

Piper Archer III	130.00
Beechcraft Bonanza	170.00
Piper Seminole	220.00
ETA Administration Fee (per course)	50.00-100

In the event of a significant increase in the price of fuel, a fuel surcharge could be added to the cost of each hour of flight to reflect current prices.

**Other Fees:** Fees for supplies and services will be charged to the student as necessary in certain programs.

Insurance for athletics (per semester) . . . . . 160.00

There are inherent risks involved in the athletic programs offered by the College. Students are required to carry extra secondary insurance coverage to participate and to sign a waiver indicating their understanding of the risk.

Private music fee (per semester hour) . . . . . 200.00  
P.E. activities (refer to course schedule)

# Tuition and Fees

## Physician Assistant Studies

Rocky Mountain College's regular fees apply to students in the physician assistant program except as noted below:

Application fee (non-refundable, to CASPA)	35.00
First summer term tuition (per credit)	935.00
Fall tuition and fees (12-19 credits)	13431.00
Spring tuition and fees (12-19 credits)	13431.00
Full summer semester tuition and fees (12-19 credits)	13431.00
Physician assistant masters assessment fee (included in tuition)	710.00
Physician assistant clinical training (included in tuition)	1500.00
Enrollment deposit (applied to tuition, non-refundable)	1000.00

## Master of Educational Leadership

Students can elect to pay the semester's tuition and fees in full at registration or may sign up for a payment plan through the College. Contact the student accounts representative at 406-657-1016 to enroll in the payment plan option. Financial aid is available to those who qualify. Call the financial aid office at 406-657-1031 for more information.

Tuition (per semester)	9975.00
Additional Student Fees	225.00

## Payment Policies

### Enrollment Deposit

A deposit of \$250 is required from the student at time of enrollment. This deposit will be held in a subsidiary account and may be used to cover incidental expenses incurred by the student such as outstanding library or parking fines, room damages, etc. The balance of this deposit will be refunded to the student at the end of enrollment.

### Validation and Payment Terms

Validation is the process of paying tuition and fees and confirming enrollment at Rocky Mountain College. Validation occurs in the student accounts office before the beginning of each semester. All students must validate regardless of whether fees are paid by financial aid or scholarships. A late validation fee is assessed to students not validated by 5 p.m. on the validation deadline (see the academic calendar for dates and fee amounts). A student may attend classes & participate in athletic and campus events only if he or she is validated.

The College offers two payment methods:

1. Full payment at time of validation.
2. Four or Five Month Installment Payment Plan –

The College will divide the semester's remaining balance due for tuition, fees, and room and board into four or five payments. The total balance due is determined by calculating the student's total charges for the semester, less all approved financial aid funding for the semester. The signed Payment Plan Application and Promissory Note, along with a down payment and required \$35 application fee are required at the time of validation.

Five subsequent monthly payments are due by the 10th day of each month. Interest at the rate of 1% per month (12% annual) will commence upon the first installment date of the plan and will continue until the account is paid in full. A \$25 late fee will be charged to the student account each month payment is received after the due date. Failure to make monthly payments may result in declaring all remaining installments due and payable, as outlined in the terms and conditions of the payment agreement. If the student withdraws from school and the payment plan agreement is not paid in full, any refund due the student is applied first to the unpaid balance of the payment plan contract. Withdrawal from school does not void the contract.

### Student Account Policies

No student is allowed to validate or attend classes if he or she currently has a balance due to the College, excluding the amount due Rocky Mountain College as it relates to the federal Perkins loan program.

It is the student's responsibility to remain current in payment of charges to his or her account. Failure to pay any amount due may result in Rocky Mountain College withholding work-study earnings, transcripts, diplomas and other related services and privileges until the balance is paid in full.

The privilege of attending or registering for classes may be denied for failure to pay account balances or failure to make payments in accordance with the installment payment plan contract. A hold is placed on the student's account and removed only when the obligation is cleared. Rocky Mountain College will not release the transcript of anyone subject to such a hold.

Past due accounts can result in financial suspension and/or the account being turned over to a collection agency or attorney. The College reserves the right to add to the debt any attorney fees, court costs, and collection fees subsequently associated with collection of the debt in accordance with statutes set forth by the State of Montana.

### Other Refunds after the "Add" Deadline

No financial adjustment is made for credit load reduction after the last day to add a course, unless the academic vice president has ordered the reduction.

# Student Life

*Brad Nason, Vice President and  
Dean for Student Life*

The primary responsibility of college students is academic achievement. However, the broadly educated citizen requires non-academic experiences also. Rocky Mountain College, through its co-curricular program, offers each student an opportunity for personal and social growth outside of the classroom.

The College recognizes the educational value of these co-curricular activities. Through them, the student may gain an understanding of fellow students, increase his or her desire to serve the world, and acquire the technique of living and working with others.

## **Cultural Opportunities**

The cultural advantages of the Billings metropolitan area can make an important contribution to the student's educational progress. The Billings Symphony, the Symphony Chorale, and the Billings Studio Theatre (on campus) afford opportunities for participation by qualified students as well as an aesthetic appreciation gained by attending concerts and productions. The Alberta Bair Theater regularly presents nationally touring musicals and performances of classical and contemporary music and theater. The galleries at the Yellowstone Art Center and Western Heritage Center are open to students and provide a basis for the exploration and appreciation of Western art. The Audubon lecture series, special programs at other educational institutions, and varied presentations of civic-minded groups are among the finest in Montana.

The cultural series events held on campus supplement the College's objectives as a church-related, liberal arts school concerned with the development of the student in every facet of his or her personality.

Students are encouraged to augment their formal instruction with a wide variety of programs, including chapel, concerts, lectures, and similar performances. Cultural events stimulate an appreciation of the role of aesthetic values and of moral and spiritual qualities in contemporary life. Speakers on campus include authorities in areas not included in the College's curriculum as well as those individuals especially qualified to speak on critical contemporary issues.

## **Peace Studies**

*David Burt, Director  
Cindy L. Kunz, Administrator*

Founded in May of 1990, the Institute for Peace Studies at Rocky Mountain College operates under a 28-member board of advisors, with the administrator and the board chair reporting directly to the Rocky Mountain College board of trustees. Its administrator, assisted by part-time staff, work-study, and community volunteers, works year round to bring programs like the Festival of Cultures, Peace Village, and

"We Are Women" conferences to the region. Outreach includes going into the classroom with Rocky Mountain College's international students and sharing a diversity program, bringing the "Second Step" conflict resolution curriculum to rural and reservation elementary schools, and designing a recently completed program (Russian Farming - A New Day) that involves working with Russian farmers as they privatize agriculture in the Kuzbass region of southern Siberia. The Institute facilitates an upper-division political science class ("Bross Peace Seminar") during each spring semester, challenging students to review areas of current conflict and also areas where peace has been successfully maintained or restored. Each year, on the stage of the Alberta Bair Theater, the Institute presents the prestigious Jeannette Rankin Peace Award and the Edith Gronhöv Peace Essay Awards, and features a noted peacemaker along with outstanding entertainers who come together for an evening "In Praise of Peace." The Institute's mission, "to seek through education to examine and promote alternatives to violence in the behavior of individuals, groups, organizations, communities, and nations," continues to attract members from a wide variety of ethnic, political, and socioeconomic backgrounds.

Speakers are available, and visitors are welcome. The Peace Institute is located in 103 Alden Hall. Contact the Institute via email at [peacestudies@rocky.edu](mailto:peacestudies@rocky.edu) or at (406) 657-1042.

## **Student Activities**

### **The Concert Band**

The concert band is a combination wind ensemble and pep band. The wind ensemble rehearses and performs selected band literature; the pep band supports the athletic functions of the College.

### **The Concert Choir**

The concert choir is the foundation of choral study at the College. Choristers rehearse daily, sing for church services, and present special programs. The choir tours annually.

### **The Jazz Ensemble**

The jazz ensemble performs in a variety of big band styles. The ensemble tours annually.

### **Other Groups**

Other performing groups such as the opera workshop, brass quintet, woodwind quintet, four-hand and eight-hand piano ensemble, and jazz quintet are often formed during the year to supplement the program.

### **Publications**

The college newspaper, "The Summit", is published every two weeks online, and staff membership is open to all interested students. Soliloquy, a collection of students' poetry, fiction, and artwork, is published each spring, and all students are invited to submit their work. A yearbook is published each spring by interested student and staff.

# Student Life

## **Student Government**

The Associated Students of Rocky Mountain College (ASRMC) consists of all students who register for six or more credit hours and others as choose to pay the membership fee. ASRMC operates under a constitution available from the office of the vice president/dean for student life. The ASRMC governing council is the executive board of the associated students, duly elected and appointed in accordance with the ASRMC constitution. The executive committee consists of the president, vice president, financial administrator, and secretary. The student senate consists of 12 senators representing various campus constituencies. Three standing committees, appointed by the executive council, are responsible for social, cultural/political, and publication activities and events.

## **Theatre**

Students perform as many as three mainstage shows per year, often using the 260-seat Billings Studio Theatre on campus. A number of student-directed plays are also performed in Losekamp Hall's Taylor Auditorium throughout the year.

## **Campus Ministry**

Rocky Mountain College is committed to the concept that faith development and academic achievement go hand-in-hand. To that end, the College – along with students, faculty, and staff – will strive to provide a variety of opportunities for people to study and grow. Throughout the College, the Christian spirit and Christian ideals are affirmed. Special emphasis is placed on the ministries of the three supporting denominations: the Presbyterian Church (USA), the United Methodist Church, and the United Church of Christ (UCC).

In collaboration with student leaders, faculty, and staff members, opportunities for worship, study and discussion groups, retreats, lectures, and community and international service are provided. Participation and leadership in all activities are open to everyone. Rocky Mountain College strives to provide an atmosphere in which students, faculty, and staff can grow in Christian discipleship, or can shape their own religious perspective and grow in personal and social awareness as well as service.

## **Support Services**

As an institution grounded in the liberal arts, Rocky Mountain College is interested primarily in the development of the whole person. A caring, personal atmosphere fosters this development. Students are encouraged to seek the counsel of any faculty member, special counseling services through the vice president/dean for student life office and/or Services for Academic Success (SAS). Residence hall staff also provides support in educational, vocational, social, and personal matters.

## **Academic Advising**

*Robyn Cummings, Director of Academic Advising*

The primary purpose of the academic advising program is to assist students in the development of meaningful educational plans that lead to the successful completion of a degree and the development of an interest in lifelong learning. Contact the director of advising, Robyn Cummings at 657-1067 with questions or concerns.

## **Counseling Services**

*Cynthia Hutchinson, Counselor*

Rocky Mountain College counseling services are available to all students. The counseling center provides support for students experiencing personal, social, or adjustment difficulties. The campus counselors also sponsor special events and programming within the College community and provide referrals to community resources. Contact Cynthia Hutchinson, at 657-1049 for more information.

## **LEAP**

*Katie Carpenter, Associate Dean for Student Life*

The Rocky Mountain College Leadership, Engagement and Achievement Program (LEAP) supports student development and growth by providing meaningful advocacy, intervention and counsel, as well as, social and academic support programming. Through peer leadership and a commitment to the community standards philosophy, LEAP strives to empower students to reach their highest personal and academic potential. For more information on LEAP, contact Katie Carpenter, associate dean of student life at 657-1099.

## **Career Services**

*Blaire Martin, Director of Career Services*

The career services office provides assistance to students in career awareness and decision-making, career-educational planning, and job searching. In addition, the career services office maintains a current list of full and part-time jobs, internships, and seasonal work available to Rocky Mountain College students. Information is accessible from the career services website. Career services assists students in establishing credentials, developing resume-writing and interviewing skills, and making contact with employers.

Internships facilitated by career services provide students at the junior and senior level an opportunity to work off-campus for a qualified employer and earn college credit in their major or minor fields. Upon successful completion of the internship, students will have:

- Applied theory to practical work situations;
- Tested their aptitude and interest in a particular field;
- Used skills in a work environment directly applicable to a career; and
- Demonstrated characteristics of professionalism required in a specific career field.

An internship usually lasts a full semester (3.5 months),

## Student Life

depending on the position. For every 45 hours worked during the internship, one semester hour is earned. General requirements for the internship program include the following:

- Students must have achieved at least a 2.00 cumulative GPA and achieved a 2.25 GPA within the major;
- Students are required by faculty to complete both an assignment that coincides with the internship experience, as well as an internship orientation;
- Students may register for up to 15 semester hours of internship credit with the approval of a faculty member; and
- Students must be registered for an internship by the first day of classes for the semester in which they will be interning.

The following is a guide for students to use to plan for the internship experience:

- Discuss the internship with an academic advisor and decide on an appropriate time to register for the internship.
- If the student plans to register for a fall internship, he or she should meet with career services by March 15 of the previous academic year. If the student plans to register for a spring or summer internship, he or she should meet with career services by October 15.

Some internship opportunities require extensive advance planning (one year or more in advance). It is the responsibility of the student to arrange for housing and transportation if the student plans to intern outside of Billings. Contact Blaire Martin, director of career services at 657-1039 for more information.

### Disability Services

Rocky Mountain College is committed to assuring an equal educational opportunity for students with disabilities. The vice president/dean for student life serves as the Section 504/ADA coordinator for the College. Undergraduate students should request accommodations through the Services for Academic Success (SAS) office (657-1070). Graduate students should request accommodations through the office of the vice president/dean for student life (657-1018). These offices provide accommodations in accordance with Section 504 and ADA regulations to ensure that all courses, programs, services, and facilities are accessible to students with disabilities. Students are responsible for identifying themselves, providing documentation, and requesting reasonable accommodations. (For further details see the disability services section under "General Policies.") There is no separate admissions process for students with disabilities. Students apply through the regular admissions process and must meet the College's admission's criteria.

### Services for Academic Success

*Jane Van Dyke, Director of SAS*

Services for Academic Success (SAS) is a federally funded TRIO program providing the skills and support needed for

eligible students to successfully complete college. SAS provides a comprehensive support program tailored to meet a student's individual needs. Services are free to participants and include tutoring, academic, career, and personal counseling, supplemental instruction, cultural and academic enrichment opportunities, use of computer labs, graduate school counseling, and accommodations for students with physical and/or learning disabilities. SAS also offers developmental coursework in mathematics, writing, and study skills.

To be eligible for the program, participants must meet one of the following criteria:

1. A low-income threshold;
  2. A first-generation college student (neither parent completed a baccalaureate degree);
  3. A physical disability or a learning disability.
- (Participants must also be U.S. citizens and demonstrate an academic need for the program.)

The program is located in the Fortin Education Center and is staffed by a director and four academic specialists. Enrollment is limited to 250 participants. To determine eligibility and/or apply, contact SAS at (406) 657-1070 and ask for an application form.

Rocky Mountain College is committed to providing courses, programs, services, and facilities that are accessible to students with disabilities. So that the College can identify and provide necessary support services as soon as possible, undergraduate students with disabilities are encouraged to complete an application with Services for Academic Success (SAS) at the same time they apply for admission to Rocky Mountain College (657-1070). Graduate students should request services through the office of the vice president/dean for student life (657-1018).

The College offers a comprehensive program of individualized services to accommodate the needs of all undergraduate or graduate students with disabilities. Typical services may include advocacy, test taking accommodations, and tutoring.

The College provides a variety of services which allows disabled students access to all College programs. Classes and programs located in inaccessible areas will be relocated to accommodate individual needs. Academic support services include counseling, tutoring, note taking, testing, and general advocacy for all disabled students.

Students with disabilities are responsible for identifying themselves, providing appropriate documentation, and requesting reasonable accommodations. Diagnostic services are not available through the College.

### Disability Documentation Requirements

The following documentation is needed to determine eligibility for modifications or accommodations:

- A detailed evaluation from a professional qualified to diag-

## Student Life

nose a disability. The evaluation should have been completed within the last three years.

- Evaluations from a licensed clinical psychologist, school psychologist, LD specialist, medical doctor, and/or neuropsychologist.
- For learning disabilities, evaluations which include test results, with composite and subtest scores, for intelligence, reading, math, written language, processing skills, and speech and language, when appropriate.
- Reports that state the disability as a diagnosis.
- Recommended, but not required: A current IEP or 504 Plan that states modifications and accommodations.

### Policy and Procedures for Accommodations

1. All students must submit documentation of a disability to the appropriate office (SAS for undergraduate students or the vice president/dean for student life for graduate students) and have it approved before any accommodations can be granted (see "documentation requirements").
2. The documentation provided by the student must support the need for the academic adjustments or accommodations that the student requests.
3. Undergraduate students must meet with their SAS advisor at least three days prior to the date of the test for testing accommodations. The SAS advisor will fill out and sign a test taking accommodations form ("green sheet"). The student will take the form to the professor for instructions on the level of proctoring needed, how the test will be delivered to SAS, and how it will be returned to the professor.  
The professor's signature is required for approval.
4. SAS staff will reserve a testing room for the student and be responsible for the appropriate monitoring or proctoring.
5. For students needing extra time on tests, the standard is double time, unless documentation indicates that the student needs more time.
6. Failure to abide by these procedures may result in a loss of accommodations.

### Guidelines for Documentation of Attention Deficit Disorder

Both undergraduate and graduate students who seek support services from Rocky Mountain College on the basis of Attention Deficit Disorder (ADD) are required to submit documentation to verify eligibility. Students with ADD are responsible for identifying themselves, providing appropriate documentation, and requesting reasonable accommodations. Diagnostic services are not available through Rocky Mountain College or the SAS program.

The following documentation is needed to determine eligibility for modifications or accommodations:

- A current ADD assessment, preferably within the last three years, with the exact DSM-IV diagnosis.
- The assessment must be from an individual qualified to diagnose ADD, such as a medical doctor. Diagnostic

reports must include the name and title of the evaluator as well as the date(s) of testing.

- A list of the questionnaires, interviews and observations used to identify the ADD behaviors.
- A summary of information regarding the onset, longevity and severity of the symptoms.
- Medication history and current recommendations regarding medication.
- Recommendations for appropriate accommodations for the college setting (such as testing in a quiet place free from distractions).
- Information concerning comorbidity.
- Recommended but not required: A complete psycho-educational evaluation, including test results with composite and subtest scores, for: intelligence, reading, math, written language, processing skills, and speech and language, when appropriate.

*All documentation is confidential.*

Undergraduates should submit documentation to:

Rocky Mountain College  
Services for Academic Success  
1511 Poly Drive  
Billings, MT 59102

Graduate students should submit documentation to:

Rocky Mountain College  
Dean of Students  
1511 Poly Drive  
Billings, MT 59102

Complaints concerning accommodations for disabilities follow the process outlined in the section "complaint resolution procedure" under "harassment and discrimination policy."

### International Student and Scholar Services

*Amber West Martin, Director of International Programs*

The Office of International Programs provides services for foreign students and Rocky Mountain College scholars. Services for Rocky Mountain College scholars include: assistance choosing the study abroad program to fit his/her needs, study abroad application assistance, pre-departure information, and a resource handbook. Services for foreign students include: orientation programs upon arrival, initial academic advising, assistance with employment and internships, as well as events and activities through which the culture of Montana can be explored. Contact Amber West Martin at 657-1107 for more information.

### Student Health Service

The College maintains a health service office in Fortin Center on a half-time basis under the direction of a nurse practitioner and consulting physician. Examinations, the diagnosis of minor illness, and the primary treatment of injuries are available to all students at no charge. Prior to enrollment, every

# Student Life

student must submit a completed medical history form and provide documentation of two MMR inoculations.

The student must assume the cost of illness and injury requiring hospitalization or other referrals. The College is not responsible in the case of accidents incurred by students in pursuit of their work, on field trips, involved in athletics, or participating in any other student activity.

## **Student Insurance**

All students are encouraged to carry personal health insurance. The College does not offer an institutional health policy; therefore, students should contact an independent insurance agent to secure health insurance coverage. A free brochure on college student health insurance is available in the student services office.

International students are required to have adequate medical/health insurance. After a student is admitted to the College, a packet describing minimum benefits will be provided.

## **Residence Life and Housing**

*Lindsey Rossmiller, Director of Residence Life*

The office of housing and residence life serves to ensure that residence life facilities allow students to live in safe, comfortable surroundings that are conducive to the pursuit of academic excellence, develop programs which address students' cultural, emotional, intellectual, occupational, physical, social, and spiritual needs, integrate residence life with students' academic experiences and self-awareness, and encourage opportunities that permit students to interact with residents of different lifestyles and cultural backgrounds.

As a residential College, all first- and second-year students enrolled in nine semester hours or more are required to live on campus. This requirement is based upon long-term research that indicates greater success among on-campus students. Exceptions to this policy include married students, students 21 years of age or older on the first day of fall semester classes, or students living in the Billings area with their parents.

The above mentioned residency requirements imply a contractual agreement between the student and the College for the academic year, while school is in session. In addition, students living in college housing must participate in an approved board plan in order to promote healthy eating habits. There will be no financial adjustment for room changes after the sixth week of the semester.

## **Residence Halls**

The Anderson-Widenhouse complex is comprised of two co-educational residence halls for freshman, joined by an annex. Rimview Hall residents must have at least sophomore status.

Applications for room reservations for new students are made through the office of admissions in connection with other admissions procedures. Assignments are made and further correspondence relating to room assignments are handled through the office of housing and residence life. Assignments are made in the order in which room deposits are received. Returning students make their room reservations in the spring of the year preceding occupancy, and new students are assigned in early summer with notification letters sent in July and August. The College reserves the right to change a student's room assignment.

Rooms are furnished with bunkable beds, mattresses, dressers, desks, closets, and chairs. Students furnish blankets, sheets, pillows, pillowcases, towels, rugs, and other personal items. In addition, a microwave and refrigerator are provided for Rimview and Widenhouse suites. Laundry facilities are available in each of the residence halls free of charge.

## **Apartments**

Jorgenson Hall apartments offer an alternative to students eligible to live off campus. These apartments, typically 728 square feet, are unfurnished and include a living room, kitchen, bedroom and study areas. A small number of units are available to be leased by students with families or who are married. Leases are available through December 31 and June 30. Information about prices are available in the office of residence life and housing.

## **Food Service**

Several options are available for all members of the Rocky Mountain College community. The McDonald Commons is open from 6:30 a.m. to 10:00 p.m. Monday through Thursday; 6:30 a.m. to 7:00 p.m. Friday, and 9:00 a.m. to 12:30 p.m. and 5:00 p.m. to 6:00 p.m. Saturday, Sunday, and holidays when classes are in session. The Commons features hot entrees, soups, salads, bagels, cereals, sandwich bars, beverages, baked goods, and ice cream.

The carte blanche meal plan (recommended) allows unlimited access to the Commons when it is open. The 10-meal plan allows the user any ten visits to the Commons each week. Students who live off-campus or in Jorgenson or Rimview may purchase a block of 50 or 100 meals to be used over the course of the year. Anderson and Widenhouse residents are required to purchase the carte blanche or the 10-meal plan. These plans are available through the office of housing and residence life.

In addition, the "munch money" program allows individuals to purchase a declining balance plan at a 10% discounted rate. "Munch money" can be used in the McDonald Commons or in the Sodexo Grill and can be purchased directly through the food service office.

# Student Life

## **Adventure Recreation and Intramurals**

*Tim Lohrenz, Director of Adventure Recreation and Intramurals*

Rocky's intramural and outdoor recreation programs provide students with experiences that encourage the development of a healthy balance between physical and mental needs, both in the present and for a lifetime. The recreational experiences permit students to discover goals experientially while becoming more aware of themselves and their environment.

## **Outdoor Recreation Activities**

The outdoor recreation program includes organized outings, a resource center, academic classes, seminars, and lectures. Among activities offered are skiing trips to Red Lodge and Big Sky; river rafting, kayaking, and canoeing on the Yellowstone River; and hiking in the Beartooth Mountains.

## **Intramural Athletics**

The intramural athletics program offers both individual and team sport activities that include soccer, basketball, tennis, golf, racquetball, softball, and volleyball. Leisure and informal recreation such as open swimming, an indoor climbing wall, and kayak pool sessions are also offered.

## **Intercollegiate Athletics**

*Robert Beers, Athletic Director*

Rocky Mountain College is a member of the National Association of Intercollegiate Athletics and the Frontier Conference. Rocky Mountain College's approximately 250 student athletes participate in eight varsity sports, including football, men's and women's basketball, volleyball, men's and women's ski racing, men's and women's golf, men's and women's cross country and men's and women's soccer. All student athletes are required to purchase insurance (see the "Tuition and Fees" section of the catalog). A primary goal of Rocky intercollegiate sports is to encourage success on the athletic field and in the classroom, carrying on the Rocky Mountain College tradition of the scholar-athlete.

## **General Policies**

The following descriptions reflect a synopsis of the College's general policies. Complete policy and procedure statements are outlined in the student handbook located on the College web site under the Student Life tab. Hard copies of all policies and procedures may be obtained by contacting the vice president/dean for student life office at (406) 657-1018.

## **Discrimination Policy**

Rocky Mountain College does not discriminate on the basis of race, color, sex, religion, national origin, citizenship, age, disability or sexual orientation in admissions or its policies and/or programs, employment or other activities.

## **Harassment and Discrimination Policy**

Members of the Rocky Mountain College community have the right to work and study in an environment free of harassment and discrimination. Rocky Mountain College strongly disapproves of and forbids the harassment of students. The College will not tolerate discrimination or harassment, which includes discrimination or harassment based on race, color, sex, religion, national origin, citizenship, age, disability, or sexual orientation.

## **Sexual Harassment Policy**

It is the policy of the College to provide a working, learning, and teaching environment free from unlawful harassment of any kind, including sexual harassment. Sexual harassment of any student, on or off campus, is prohibited and will not be tolerated. Retaliation against a person who reports or complains about harassment, or who participates in the investigation of a harassment complaint, is also prohibited.

The director of human resources will distribute copies of this policy to all current students and to all those who join the College community. A periodic notice will be sent to faculty, staff, and students to remind them of the policy. A copy of the policy will be distributed at new student orientation, and copies of the policy will be available at appropriate campus centers and offices. A "no harassment" policy notice will be posted in residence halls, instructional buildings, and administrative office areas.

## **Immunization Policy**

Entering students must present documentation of immunization as part of the enrollment process at Rocky Mountain College. Montana state law requires proof of two measles, mumps, and rubella immunizations for all students unless born before Jan. 1, 1957. Prior to enrollment at Rocky Mountain College, prospective students must complete the immunization section of the health service form. If adequate documentation is not available, immunization must be performed at the Rocky Mountain College health service upon arrival. Students with incomplete immunization records will not be allowed to register for classes.

## **Alcohol and Drug Policy**

Rocky Mountain College believes the key to successful control of alcohol abuse lies in education, providing healthy alternatives, and supporting and promoting healthy lifestyles. To this end, the College is committed to providing students the most current information available regarding alcohol and alcohol use; developing and implementing alcohol-free social programming; and encouraging and supporting those students who choose to abstain from use. Alcohol is not permitted in the College's residence halls. Further, the use or possession of illegal drugs and conduct deemed unlawful by the state or federal government is prohibited on campus.



# Student Life

## Other Policies

### Motor Vehicles

All motorized vehicles owned or operated by Rocky Mountain College students are subject to campus regulations.

### Firearms and Weapons

Firearms and weapons are not permitted on campus.

### Student Right to Know Act and Campus Information

The Department of Education (DOE) and federal regulations require all colleges and universities to make available to students, prospective students, faculty, and staff information regarding campus crime rates (Clery Act), freshmen retention and graduation rates (Student Right-to-Know Act), and athletics programs (Equity in Athletics). This information is available in the Dean for Student Life office.

### Directory Information Policy

Directory information will be released upon inquiry unless a request to withhold this information is filed by the student in the office of student records by the last day to add a class each semester. Directory information includes name of student, local address, local phone, Rocky Mountain College e-mail address, hometown, class, major, dates of attendance, degree and date awarded, honors, and/or varsity sport participation.

Currently, registered students have the right to request that the College not release this information. Any student wishing to withhold directory information must inform the office of student records in writing. Students must submit a request to withhold information each semester they are enrolled. Students should be aware that a request to withhold information would preclude release of verifications of enrollment or graduation. More information about this policy is available from the office of student records.

Please notify the office of student records of any change of name (requires legal proof), address, and/or phone number either in person or via CampusPortal.

### Student Conduct Systems

Restorative justice is a theory of justice that emphasizes repairing the harm caused or revealed by violations of the Student Code of Conduct and/or campus policy. It is best accomplished through cooperative processes that include all stakeholders. Practices and programs reflecting restorative purposes will respond to campus incidents by identifying and taking steps to repair harm; involving all stakeholders; and, transforming the traditional relationship between students and the institution by the way we respond to incidents.

### Conduct Boards

While the vast majority of conduct issues at RMC are managed informally on a one on one basis, the College maintains a variety of conduct programs in support of student learning,

development, safety and the protection of RMC's community standards.

### Peer Review Board

The peer review board can serve as a board of original jurisdiction or of appeal. Students may be referred to the peer review board by a residence director, the director of residence life, or the associate dean of students. It is a hearing body comprised of five students empowered to determine if a student is responsible for violating the student code of conduct and/or College policy. The peer review board collaborates with students concerning their alleged violations to find a mutually beneficial resolution that protects the interests of the college community, allows the student to be accountable for his or her actions, and facilitates learning opportunities.

### Student Conduct Board

The Conduct Board serves as either a board of original jurisdiction or of appeal. It conducts hearings related to academic dishonesty and student disciplinary matters in which there are violations of college regulations that may result in a student's suspension or dismissal from the College. It also hears matters related to the constitution of ASRMC. The Conduct Board is composed of four students selected by ASRMC and four faculty members elected through the annual faculty nomination process or nomination by the Academic Vice President. The complete Student Conduct Board policy and procedures are outlined in the student handbook or by following the link in the left hand column of this page.

# The Curriculum

## Baccalaureate Degree Programs

Students may earn a bachelors degree in the following programs. Some majors have several options; see the department description for details.

### Bachelor of Arts

Art  
Communication Studies  
Education  
English  
Environmental Studies  
History  
Individualized Program of Study  
Music  
Philosophy and Religious Thought  
Theatre

### Bachelor of Science

Aviation  
Biology  
Business Management  
Chemistry  
Computer Science  
Education  
Environmental Management and Policies  
Environmental Science  
Equestrian Studies  
Geology  
History and Political Science  
Individualized Program of Study  
Managerial Accounting  
Math  
Physical Education and Health  
Psychology  
Sociology and Anthropology

### Minors

Minors are offered in all of the major programs listed above. In addition, minors are also offered in the following programs:

Organizational Leadership  
Physics  
Pre-Law  
Reading  
Writing

### Masters

Master of Accountancy (MAcc)  
Master of Physician Assistant Studies (MPAS)  
Master of Educational Leadership (MEd)

### Individualized Program of Study (IPS)

An individualized program of study allows students to design a program that is not regularly offered by Rocky Mountain College. A student determines, with the help of faculty advisors, a program of study tailored to meet individual needs and

interests. An IPS can be developed for either a major or a minor. All other graduation requirements must be completed, including all general education requirements.

An IPS must be a pre-planned program of study; therefore, IPS proposals should be submitted to the curriculum committee by the end of the sophomore year.

Proposals offered after the sophomore year require approval of submission to the committee by the academic vice president.

IPS proposals are reviewed by the curriculum committee for approval. Applications should include the educational rationale behind the program along with a list of all courses to be applied toward the program. The application should also include requirements of similar programs from at least two other accredited institutions. All IPS majors and minors must meet the minimum criteria listed in the requirements for a baccalaureate degree. Proposals are evaluated on the basis of whether or not an IPS provides a coherent program of study, whether the proposed program is similar in breadth and depth to programs at other institutions, whether such a program can better meet the needs of the student, and whether or not the student can offer evidence of the ability to plan and carry out such an individualized program. To be eligible for consideration, the student must be available for regular on-campus contact with the major advisor. Please contact the office of student records (657-1030) for further guidance on the preparation of an IPS proposal.

### Teaching Licensure

For information about licensure, see "education" in the "academic programs" section of the catalog.

### Associate of Arts Degree Requirements

A minimum of 62 semester hours is required, of which at least the last 31 have been taken at Rocky Mountain College; the general education requirements listed below must be met. A candidate must have a cumulative GPA of 2.00 ("C") for all courses applying to the degree.

### Baccalaureate Degree Requirements

A minimum of 124 semester hours (certain programs may require more) is required. No more than 64 semester hours (96 quarter hours) are acceptable in transfer from a two-year college. Unless being counted toward a major, a maximum of eight credits in applied music, eight credits in ensemble, eight credits in theatre production, or eight credits in physical education activity courses (only two courses in the same physical education activity) may be counted toward graduation. Unless being counted toward the major, no more than a total of 12 of these activity credits can count toward the total credit requirement.

# The Curriculum

## **The degree requirements listed below must be met:**

- A candidate must have a cumulative grade point average (GPA) of at least 2.00 for all courses applying to the degree, and a cumulative GPA of at least 2.00 in all courses taken at Rocky Mountain College.
- Students must complete a major with a GPA of at least 2.25 in courses in the major. The specific requirements for a particular major are listed in the catalog under the program concerned. The student must complete at least three courses in his/her major field at Rocky Mountain College.
- Forty semester hours must be earned in upper-division courses, including at least 12 in the major field. If a minor is chosen, it must include a minimum of six upper-division semester hours.

A candidate for a baccalaureate degree must complete a minimum of 30 semester hours at Rocky Mountain College, including at least 20 upper-division semester hours (toward the required 40 semester hours of upper-division credits).

Twenty-four of the last 30 semester hours required for graduation must be earned in residence. This requirement may be waived in exceptional cases upon approval of the academic vice president.

## **General Education Requirements**

Students must complete the following general education requirements (GERs) to earn a baccalaureate degree at Rocky Mountain College. Methods of completing each requirement are explained below. From time to time, special topics courses may be offered that can satisfy a particular GER. Contact the student records office to confirm if a given special topics course is appropriate as a GER.

## **Students who complete the general education requirements at Rocky Mountain College will be able to:**

1. Compose essays that demonstrate critical thinking, command of standard grammar, and logical organization.
2. Demonstrate critical, analytical, and creative problem solving skills.
3. Analyze texts and other materials critically and creatively.
4. Construct and analyze models using approximation or statistical techniques.
5. Construct and deliver clear, well-organized oral presentations.
6. Demonstrate an understanding of key concepts and methods of the natural sciences.
7. Demonstrate an understanding of key concepts and methods of the social sciences.
8. Demonstrate an understanding of key concepts and methods of the fine arts.
9. Demonstrate an understanding of key concepts and methods of the humanities.

## **Mathematics**

Upon successful completion of Requirement 1: Math Skills (MAT 100, MAT 110, MAT 104, or satisfactory score on a math achievement test) students will be able to:

1. Solve algebraic or trigonometric equations;
2. Manipulate and simplify algebraic or trigonometric expressions;
3. Apply mathematical formulas to obtain solutions to real-world problems;
4. Evaluate and graph functions, and investigate their features and geometric behavior;
5. Demonstrate problem-solving abilities and critical thinking.

*Requirement 1: Math Skills (3 semester hours) Fulfilled by successfully completing:*

- MAT100 – College Algebra
  - MAT110 – Elementary Functions
  - MAT104 – Mathematics for Elementary School Teachers II
  - MAT131 – Trigonometry and Applied Calculus  
(for aeronautical science majors and aviation management majors ONLY)
- or
- a satisfactory score on a math achievement test (at least 26 on ACT-math, at least 610 on SAT-math, or at least a 41 on the trigonometry portion of the COMPASS math test (can be taken at Rocky Mountain College ).

Upon successful completion of Requirement 2: Mathematical Thought (MAT 152, MAT 175, MAT 176, MAT 210) students will be able to:

1. Represent mathematical objects symbolically, verbally and as tables and graphs;
2. Make connections with other aspects of mathematics and other disciplines;
3. Construct mathematical models of real-world problems using approximation or stochastic techniques;
4. Apply abstract mathematical methods independent of a discipline-specific application.

*Requirement 2: Mathematical Thought (3 semester hours) Fulfilled by successfully completing one of the following courses:*

- MAT152 – To Infinity and Beyond
- MAT175 – Calculus I
- MAT176 – Calculus II
- MAT210 – Probability and Statistics

Advanced placement credit in math may not be used to satisfy this requirement, but may be applied to overall elective credit.

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Event	Course
ACT score less than 19 or SAT score less than 450 or COMPASS score Pre-Algebra 0-100 or Algebra 0-24	MAT090 Refresher Math
ACT score 19-22 or SAT score 450-549 or COMPASS score Algebra 25-100 or College Algebra 0-24	MAT100 College Algebra
ACT score 23-25 or SAT score 550-609 or COMPASS score College Algebra 25-100 or Trigonometry 0-40	<p style="text-align: center;">MAT103 Mathematics for Elementary School Teachers I</p> <p style="text-align: center;">MAT110 Elementary Functions</p> <p style="text-align: center;">MAT152 To Infinity and Beyond</p> <p style="text-align: center;">MAT210 Probability and Statistics</p>
ACT score 26 or higher or SAT score 610 or higher or COMPASS score Trigonometry 41-100 or higher	MAT175 Calculus I

**\*Note:** A student tests out of Math General Education Requirement 1 if he/she places into, and successfully completes MAT103, MAT152, MAT175 or MAT210.

Students without ACT or SAT scores must take the COMPASS to determine placement.

If a student wishes to take a course at a higher level than where he or she places, the student must take the COMPASS to challenge the placement.

### Writing

After completing the general education requirement in Writing students will be able to:

- 1.Support a thesis using credible, appropriate, accurate, and sufficient source material;
- 2.Read texts from a variety of genres and cultural perspectives;
- 3.Demonstrate a command of standard written English and academic writing standards;
- 4.Employ multiple analytical and rhetorical methods of writing;
- 5.Incorporate research and cite sources correctly;
- 6.Demonstrate competence of the close reading of texts.

*Requirement:* (6 semester hours) Students must successfully complete both of the following:

- ENG119 – First Year Writing and
- ENG120 – Critical Reading and Evaluative Writing.

Advanced placement courses may not be used to satisfy this requirement, but may be applied to overall elective credit.

### Cut-off scores for entering Freshmen and Compass challenge scores for placement at a higher level:

Entering students who have not completed an equivalent First-Year Writing Course (ENG119 at Rocky Mountain College) at the college level must complete ENG 119 and ENG120 as part of the General Education requirements. To determine whether a student is prepared to succeed in ENG119, the English faculty have established the following cut-off scores on the ACT and SAT tests:

- ACT English 18 and greater: ENG119
- SAT Reading and Writing 450 and greater: ENG 119

Students scoring under 18 on the ACT or under 450 on the SAT should be enrolled in ENG118 Basic Composition. Students who believe their skills in reading and writing would enable them to perform well in ENG119, despite ACT or SAT scores that recommend ENG118, may challenge placement by taking the COMPASS exam. Students who wish to challenge placement must take the COMPASS Writing Skills test and Reading Skills test.

Cut-off scores for admission to ENG119 on these two COMPASS tests are:

- Writing 29 and greater
- Reading 55 and greater

### Communication

After completing the general education requirement in Communication Studies students will be able to:

- 1.Articulate the purpose of a speech, organize a speech, and utilize evidence in support of arguments;
- 2.Effectively deliver speeches;
- 3.Articulate the difference between an informative speaking goal and a persuasive speaking goal;
- 4.Demonstrate critical listening skills;
- 5.Evaluate the speeches and persuasive arguments of others;
- 6.Identify fallacies and errors in logic.

*Requirement:* Public Speaking (3 semester hours) Fulfilled by successfully completing the following:

- COM102 – Public Speaking.

# The Curriculum

## Fine Arts

Upon completion of Requirement 1 in Fine Arts students will be able to:

1. Demonstrate knowledge of the fundamental concepts and methods of a fine art;
2. Describe the interrelationships between a fine art, history, and culture.

*Requirement 1:* Students must successfully complete a course of at least three semester hours in the fine arts from the following:

- Art: ART215/315, ART220, ART221, ART222, ART244, ART321, ART322, ART323
- Music: MUS101, MUS140, MUS204/304, MUS205/305
- Theater: THR101, THR131, THR433, THR434

Upon completion of Requirement 2 in Fine Arts students will be able to:

1. Demonstrate the capacity to evaluate works of a fine art based on disciplinary criteria;
2. Demonstrate competence in applying fundamental concepts, methods, skills, and techniques to a specific fine art.

*Requirement 2:* Students must successfully complete a course of at least three semester hours in the fine arts from the following:

- Art: ART101, ART121, ART176, ART220, ART243, ART251, ART252
- Music: MUS215/315  
Three semesters in concert band (MUS 283/383), concert choir (MUS 271/371), or jazz ensemble (MUS 286/386) can fulfill this requirement. The three credits must be taken in the same ensemble.
- Theater: THR132, THR135, THR203, THR230, THR235, THR240, THR245, THR310, THR315, THR320, THR336, THR347, THR391

The fine arts general education requirement is fulfilled by successfully completing one course of at least three semester hours from each requirement. The two courses must be from different disciplines.

## Humanities

After completing the general education requirements in the humanities students will be able to:

1. Critically analyze source material and compose clearly reasoned and supported written arguments;
2. Demonstrate knowledge of key terms, methods, and figures of literature, philosophy and religious thought, and history,

as per course discipline;

3. Demonstrate knowledge of how cultures express and negotiate complex social and ethical concerns and conflict.

*Requirement 1:* History (3 semester hours) Students must successfully complete a course in history of at least three semester hours from the following:

- History: HST103, HST104, HST211, HST212, HST232, HST260, HST303, HST304, HST311, HST313, HST324, HST325, HST356, HST358, HST363, HST365

*Requirement 2:* Literature (3 semester hours) Students must successfully complete a course in literature of at least three semester hours from the following:

- English: ENG223, ENG224, ENG242, ENG 244, ENG245, ENG247, ENG252, ENG253, ENG270, ENG272, ENG273, ENG282, ENG283, ENG291

*Requirement 3:* Philosophy and Religious Thought (3 semester hours) Students must successfully complete a course in philosophy and religious thought of at least three semester hours from the following:

- Philosophy and Religion: PHR100, PHR120, PHR205, PHR210, PHR211, PHR212, PHR218, PHR220, PHR236, PHR303, PHR304, PHR310, PHR312, PHR317, PHR320, PHR321, PHR330, PHR340, PHR362, PHR370, PHR375, PHR378, PHR421, PHR450, PHR460, PHR483, PHR490, PHR499

## Social Sciences

Upon successful completion of Requirement 2: in social sciences, students will be able to:

1. Demonstrate critical thinking about major ideas in the field through writing;
2. Use the appropriate disciplinary approach to study human behavior;
3. Identify ethical issues relevant to the human condition.

*Requirement:* (6 semester hours) Students must complete two courses of at least three semester hours each in psychology, sociology and anthropology, economics, or political science. These two courses must be in different disciplines. Courses satisfying this GER include:

- Psychology: PSY101, PSY205, or PSY206
- Sociology/anthropology: SOC101 or SOC242
- Political science: POL101, POL225, POL313
- Economics: ECO201, ECO202

## Natural Sciences

After completing the general education requirements in the Natural Sciences students will:

1. Characterize and describe the importance of the scientific

# The Curriculum

method in one of the following fields: Biology, Chemistry, Environmental Science, Geology, or Physics;

2. Identify, locate, interpret, and evaluate scientific information from various sources;
3. Conduct basic experiments that investigate scientific questions using appropriate equipment and methods.  
This objective is satisfied only when the class has a laboratory component.

*Requirement:* (7 semester hours) Fulfilled by successfully completing two courses in biology, chemistry, environmental science, geology, or physics. At least one of the courses must have a lab component. Both courses cannot be in the same discipline. Courses that satisfy this GER include:

- Biology: BIO102\*, BIO105, BIO120\*, BIO252
- Chemistry: , CHM100\*, CHM101\*, CHM260
- Environmental science: ESC105\*, ESC215, ESC243\*, ESC244\*.
- Geology: GEO101/104, GEO201.
- Physics: PHS101\*, PHS105\*, PHS201\*

Courses marked with \* have a laboratory component.

## Transfer Credits for GER's

Although the College reserves the right to refuse incoming transfer credits, credits from accredited colleges normally will be accepted subject to these conditions:

1. No more than 94 semester hours or 135 quarter-hours of credit are acceptable from four-year colleges.
2. No more than 64 semester hours or 96 quarter-hours are acceptable from two-year colleges.
3. No junior- or senior-level credit will be allowed for courses from two-year colleges.
4. No "F" grades will be accepted.
5. No preparatory/developmental classes below 100- level will be accepted.

## Second Degree

A student may earn a second bachelor's degree at Rocky Mountain College by taking a minimum of 30 additional credits in residence beyond the credits earned for the first bachelor's degree and by completing all requirements for a second major. Nine of the minimum additional credits for the second degree must be at the upper-division level. Students at the College may concurrently earn both bachelor of science and bachelor of arts degrees if they have a minimum of 150 credits and have fulfilled all requirements for both degrees. Students may also transfer to Rocky Mountain College to attain a second degree. These students must meet all degree requirements outlined for transfer students to Rocky Mountain College. Students wanting to obtain a second degree must file a written application to the office of student records.

## Masters Programs Curriculum Requirements

### Master of Accountancy Degree Requirements

The accountancy program at Rocky Mountain College is designed to prepare students for careers in public, governmental, not-for-profit, or industrial accounting. The program is designed to allow students to build on skills and knowledge developed through undergraduate coursework to become skilled, entry-level professional accountants upon graduation. The curriculum is based on the American Institute of Certified Public Accountants (AICPA) core competencies and prepares students to sit for the certified public accountant exam. In its entirety, the program is comprised of both undergraduate and graduate study, which leads, ultimately, to the master of accountancy degree.

Students who begin the accountancy program as undergraduates will graduate, upon completion of all requirements, with both a bachelor of science in business management and a master of accountancy. The entire curriculum consists of 150 semester hours for both the bachelor of science and master of accountancy.

Students who enter the accountancy program as baccalaureate degree holders from an institution other than Rocky Mountain College must meet only the Master of Accountancy requirements and graduate only with the Master of Accountancy. These students should consult with their academic advisor to ensure that, in total, their academic preparation makes them eligible for the CPA exam. Depending upon the student's academic background, additional courses may be necessary to become eligible for the CPA exam.

### Master of Physician Assistant Studies Degree Requirements

A minimum of 63 sequential semester hours in the didactic phase, followed by 42 semester hours in the clinical instruction phase, is required. Students must satisfactorily complete all courses in the professional program with a GPA of at least 3.00.

### Master of Educational Leadership Degree Requirements

The Master of Educational Leadership program at Rocky Mountain College is designed to prepare educational leaders for a career as a principal or superintendent. This cohort-based program begins in the early fall and completes in late spring over a course of eleven months. The program follows the state and national standards for educational leadership and is rooted in Effective School Research. Blending theory and practice through coursework and an intensive internship, candidates will be prepared to be instructional leaders at the K-12 level. The program is 34 credits in length depending on previous coursework. This program has a minimal residency requirement.

# Academic Programs

## Accountancy

*Anthony R. Piltz, Professor*

*Kate Erin, Assistant Professor*

*Rockland J. Tollefson, Visiting Assistant Professor*

The accountancy program at Rocky Mountain College is designed to prepare students for careers in public, governmental, not-for-profit, or industrial accounting. The program is designed to allow students to build on skills and knowledge developed through undergraduate coursework to become skilled, entry-level professional accountants upon graduation. The curriculum is based on the American Institute of Certified Public Accountants (AICPA) core competencies and prepares students to sit for the certified public accountant exam. In its entirety, the program is comprised of both undergraduate and graduate study, which leads, ultimately, to the master of accountancy degree.

Students who begin the accountancy program as undergraduates will graduate, upon completion of all requirements, with both a bachelor of science in business administration and accountancy and a master of accountancy. The entire curriculum consists of 150 semester hours, and students are required to meet all Rocky Mountain College degree requirements.

### Master of Accountancy with a BS in Business Management

Required courses include:

BSA201	Principles of Accounting I
BSA202	Principles of Accounting II
BSA311	Principles of Finance
BSA343	Principles of Marketing
BSA450	Internship
ECO201	Principles of Macroeconomics
ECO202	Principles of Microeconomics
ENG325	Professional Writing
MAT210	Probability and Statistics

Choose one of the following:

BSA321	Principles of Management
BSA422	Production and Operations Management

Plus nine semester hours of undergraduate electives.

For course descriptions, see the "Business Administration and Accountancy" section of this catalog.

### Master of Accountancy

BSA505	Cost Accounting
BSA507	Taxation of Individuals
BSA521	Advanced Financial Management
BSA522	Accounting Information Systems
BSA553	Financial Reporting III
BSA608	Taxation of Partnerships, Corporations, Estates and Trust
BSA653	Financial Reporting IV
BSA672	Auditing
BSA673	Not-for-Profit Accounting

BSA352 is a prerequisite for the master-level courses.

To ensure CPA Exam eligibility, candidates should take care to select electives in business administration and accountancy disciplines other than accounting. BSA331 is highly recommended as one of these electives. In addition to the requirements noted

above, candidates should also complete BSA371. In all cases, CPA exam eligibility requirements for the state in which the candidate intends to sit for the exam should be consulted to ensure that the candidate's educational program satisfies exam eligibility requirements.

Students who enter the accountancy program as baccalaureate degree holders from an institution other than Rocky Mountain College must meet only the master of accountancy requirements and will graduate only with the master of accountancy. These students should consult with their academic advisor to ensure that, in total, their academic preparation makes them eligible for the CPA exam. Depending upon the student's academic background, additional courses may be necessary to become eligible for the CPA exam.

## Accountancy courses

### BSA505

#### Cost Accounting

Semester: Spring, Alternate Years. Semester Hours: 3.

This course introduces the primary principle of cost management – costs do not just happen; they are the results of management decisions. Topics of study include cost concepts and applications, costing methods, the value chain, cost-profit-volume analysis, best cost management practices and other techniques to aid management in planning and controlling business activities.

Prerequisite: BSA352

### BSA507

#### Taxation of Individuals

Semester: Fall, Alternate Years. Semester Hours: 3.

A study of federal income tax law as it applies to individual taxpayers, including sole-proprietorship business entities. The course also includes an introduction to the tax research process. Cases will be used to apply the tax research process.

Prerequisite: BSA352

### BSA521

#### Advanced Financial Management

Semester: Spring, Alternate Years. Semester Hours: 3.

An advanced study of financial management issues as they pertain to public and private corporations. Topics include capital budgeting, cost of capital, capital structure, financing strategy, dividend policy and business valuation.

Prerequisite: BSA352

### BSA522

#### Accounting Information Systems

Semester: Spring, Alternate Years. Semester Hours: 3.

Students explore the elements of both manual and computerized accounting information systems. Topics include system development, internal control, and the role of database and network technology in accounting information systems.

Prerequisite: BSA352

### BSA553

#### Financial Reporting III

Semester: Fall, Alternate Years. Semester Hours: 3.

Students examine advanced topics in the financial reporting process including leases, post-retirement benefits, deferred taxes,

# Academic Programs

revenue recognition, and investments. The FASB standard setting process will also be discussed, and accounting research processes will be introduced.

Prerequisite: BSA352

## **BSA608**

### **Taxation of Partnerships, Corporations, Estates and Trusts**

Semester: Spring, Alternate Years. Semester Hours: 3.

A study of federal income tax law as it applies to partnerships, corporations, estates and trusts. Further application of the tax research process through case analysis is also addressed.

Prerequisite: BSA352

## **BSA653**

### **Financial Reporting IV**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course introduces the theory and practice relative to business combinations, mergers, consolidations, and acquisitions. Other topics include partnerships, foreign operations, financial reporting and the Securities and Exchange Commission, segment and interim reporting, legal reorganizations and liquidations, estates and trusts, and governmental and not-for-profit accounting.

Prerequisite: BSA352

## **BSA672**

### **Auditing**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course addresses the many changes implemented in the corporate sector and the auditing profession since the passage of the Sarbanes-Oxley Act and the implementation of the Public Company Accounting oversight Board (PCAOB). Areas of study include professional ethics, auditor's legal liability, the auditing environment, internal controls, working papers, the auditor's report, and the accounting profession's credibility crisis.

Prerequisite: BSA352

## **BSA673**

### **Not-For-Profit Accounting**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course provides the fundamental knowledge necessary to learn about the operation of governments, universities, hospitals, and other nonprofits. The specific accounting, auditing, and financial reporting practices and standards used by these entities will be emphasized.

Prerequisite: BSA352

## **Art**

*James A. Baken, Professor*

*Mark S. Moak, Professor*

Students who participate in the art program can expect to discover and explore materials, techniques, and cultures from the dawn of human artistic experience to today. They will be guided on their journey by faculty who are passionate about art and believe in the importance of individualized instruction and experience; creativity as a problem-solving endeavor; critical thinking; traveling to monuments and museums of the region, nation, and the world; alternative methods of learning; and the interrelatedness of the studio, art history, aesthetics, art criticism, and a variety of other disciplines. The ultimate goal is self-expression through self-discovery.

Committed to the liberal arts, the art department strives to provide a learning environment that is challenging, yet encouraging, to art majors and non-majors alike. Some will go on to graduate school, some to teach or work in an art related field, some will acquire an avocational skill, others will become educated consumers of art; but all will look at, truly see, the world with all of its visual wealth and its amazing peoples in a new light.

### **Note:**

1. Students with exceptional preparation in some area of art study may consult with faculty concerning substitutions or waivers of prerequisites.
2. Independent study, directed reading, field practica, among others, may not be taken in art until at least 15 semester hours of regular coursework have been satisfactorily completed.
3. Internship credits may be used for no more than three semester hours of the required total for the major or minor.
4. Art education majors must complete the professional education program for K-12 teaching. See the "education" section of the catalog.
5. Students wishing more depth in a studio course may take that course a second time at a higher level, with instructor's approval.
6. Additional expenses for tools and materials can be expected in most art courses.

### **Major in Art**

Requirements include a minimum of 39 semester hours including the following 24 hours:

ART101	Drawing I
ART121	Design
ART220	Art History Survey I
ART221	Art History Survey II
ART222	Art History Survey III
ART483	Senior Project
ART490	Art Seminar

Choose one of the following:

ART243	Digital Photography
ART247	Digital Nature Photography

Choose one of the following:

ART321	Topics in Art History I
ART322	Topics in Art History II
ART323	Topics in Art History III

The additional 15 semester hours for the major to be chosen in consultation with academic advisor. Courses may include art courses, one business-related course (BSA318 or BSA425) and/or internships (Pass/No Pass) up to 6 semester hours.

### **Minor in Art**

A minimum of 21 semester hours are required including:

One of the following:

ART101	Drawing I
ART121	Design

Two of the following:

ART220	Art History Survey I
ART221	Art History Survey II



# Academic Programs

ART222 Art History Survey III

One of the following:

ART243 Digital Photography

ART247 Digital Nature Photography

ART321 Topics in Art History I

ART322 Topics in Art History II

ART323 Topics in Art History III

Nine hours of ART electives also are needed.

## Major in Art Education

Requirements include a minimum of 42 semester hours including the 39 hours listed under the major in art plus ART338. Discipline-based art education, art production, art history, aesthetics, and criticism are the focus for this major. Art education majors must complete the professional education program for K-12 teaching as described in the "education" section of the catalog.

## Minor in Art Education

Requirements include a minimum of 27 semester hours including:

ART101 Drawing I

ART121 Design

Two of the following:

ART220 Art History Survey I

ART221 Art History Survey II

ART222 Art History Survey III

One of the following:

ART243 Digital Photography

ART247 Digital Nature Photography

ART321 Topics in Art History I

ART322 Topics in Art History II

ART323 Topics in Art History III

ART338 Methods & Materials

ART483 Senior Project

ART490 Art Seminar

Six semester hours of ART electives also are required.

Discipline-based art education is the goal of this minor. Art education minors must complete the professional education program for K-12 teaching as described in the "education" section of the catalog.

## Art courses

### ART101

#### Drawing I

Semester: Fall. Semester Hours: 3.

This foundation course explores basic drawing techniques in a variety of dry and wet drawing media. This studio course offers the student an opportunity to learn about pictures as language and expressions using the vocabulary of the elements of art: line, value, shape, form, texture, perspective, and composition. Students will create, critique, and display original works of art.

### ART114

#### Gallery

Semester: Fall and Spring. Semester Hours: 1.

This course is designed to provide the student with gallery experience. Responsibilities include preparing the gallery for all exhibits, providing and collecting entry forms, cataloguing, making and placing labels for all student show work, hanging the student show, organizing the artist's reception and advertising for the student show, helping with the hanging/reception/ advertising of all other exhibits including senior shows and those of guest artists, and working with art faculty.

### ART121

#### Design

Semester: Spring. Semester Hours: 3.

This studio course closely examines both two- and three-dimensional design by studying the principles of design and the elements of art. Students will create, display, and formally present for criticism to the course academic exercises and works of art.

### ART214

#### Gallery

Semester: Fall and Spring. Semester Hours: 1.

This course is designed to provide the student with gallery experience. Responsibilities include preparing the gallery for all exhibits, providing and collecting entry forms, cataloguing, making and placing labels for all student show work, hanging the student show, organizing the artist's reception and advertising for the student show, helping with the hanging, reception, and advertising of all other exhibits including senior shows and those of guest artists, and working with art faculty.

### ART215

#### Creativity

Semester: Fall, Alternate Years. Semester Hours: 3.

This course approaches creativity as a skill to develop, not as a magical gift bestowed on a few select people. The last three weeks of the course will be devoted to a large-scale project in an area chosen by the student at the time of registration. Two important elements of the course involve a specific style of journaling, and a weekly artist's date. Through the activities in this course, students will bring a higher degree of creativity to their daily lives. This course may be taken either at the lower-division level or at the upper-division level, but not both.

### ART220

#### Art History Survey I

Semester: Fall. Semester Hours: 3.

This is a general survey of art historical periods including the Prehistoric in Europe, the Near East, and the Americas; Ancient Egypt; the Bronze Age and Ancient Greece; the Etruscans; and the Romans. Study focuses on the materials, techniques, style, historical context, aesthetics, and criticism of this wide variety of art. Traditional art historical methods of slide lecture, discussion, written exams, and papers are de rigueur as well as exploration of relevant topics on the Internet and via the course website. Though sequential, ART220, ART221, and ART222 may be taken separately.

# Academic Programs

## **ART221**

### **Art History Survey II**

Semester: Spring. Semester Hours: 3.

This is a general survey of art historical periods including the Early Christian, Byzantine, Islamic, Early Medieval, Gothic, and Renaissance. Study focuses on the materials, techniques, style, historical context, aesthetics, and criticism of this wide variety of art. Traditional art historical methods of slide lecture, discussion, written exams, and papers are de rigeur as well as exploration of relevant topics on the Internet and via the course website. Though sequential, ART220, ART221, and ART222 may be taken separately.

## **ART222**

### **Art History Survey III**

Semester: Fall. Semester Hours: 3.

This is a general survey of art historical periods and movements during the 17th, 18th, 19th, 20th, and 21st centuries. Study focuses on the materials, techniques, style, historical context, aesthetics, and criticism of this wide variety of art. Traditional art historical methods of slide lecture, discussion, written exams, and papers are de rigeur as well as exploration of relevant topics on the Internet and via the course website. Though sequential, ART220, ART221, and ART222 may be taken separately.

## **ART231**

### **Painting I**

Semester: Spring. Semester Hours: 3.

This studio course explores techniques of oil and acrylic paints as well as mixed media. The contemporary view as well as the traditional is examined. Students will create, critique, and display original works of art.

Prerequisite: ART101

## **ART232**

### **Painting II**

Semester: Fall. Semester Hours: 3.

This course explores the theories and techniques of traditional watercolor painting. However, non-traditional approaches to watercolor and other types of painting, e.g. mixed media, are often introduced. Students will create, critique, and display original works of art.

Prerequisite: ART101

## **ART243**

### **Digital Photography**

Semester: On Demand. Semester Hours: 3.

This course introduces the process of digital photography. Camera handling, editing techniques, and the elements of design are covered. Students are encouraged to pursue this art form in the surrounding community and landscape.

## **ART244**

### **Calligraphy**

Semester: On Demand. Semester Hours: 3.

The purpose of this course is to connect with scribes, past and present, to learn their skills and apply them today. Though immersed in art history, students of calligraphy spend most of the course studying, practicing, and laying out a variety of hands including Roman, Insular, National, Caroline, Gothic, Italian, Humanist, and post-Renaissance scripts. Traditional tool-making and usage include quill, reed, and bamboo pens and ink; other

tools, media, and techniques may include brushes, steel pens, paper, papyrus, vellum, watercolor, gouache, embossing, relief printing, resist, computer-generated layouts, and more. Projects range from quotes to cards to wine labels to small books. Students will create, critique, and display original works of art.

## **ART247**

### **Digital Nature Photography**

Semester: Fall. Semester Hours: 3.

This course explores the practice of digital photography as it relates to the field of Nature Photography. Camera selection, technology, and use are covered; as are field practices, editing techniques, elements of composition, and trip planning. Students are encouraged to pursue this art form in the surrounding area including a trip to Yellowstone National Park. Students will create, critique, and present original works of art.

## **ART251**

### **Clay I**

Semester: Fall, and On Demand. Semester Hours: 3.

Students in this studio course create original works of art using hand-building techniques such as pinching, slab-building, coiling, and modeling (sculpting). Wheel-throwing is also introduced. Students are encouraged to explore the use of design elements in the clay medium. They are also expected to be able to identify and articulate qualities that characterize notable ceramic works by studying both modern and historic ceramic pieces. Students will create, critique, and display original works of art.

## **ART252**

### **Jewelry and Metalwork I**

Semester: Spring. Semester Hours: 3.

This course is an introduction to basic jewelry and metalworking processes and techniques, such as lost wax casting, raising, forging, fabrication, and lapidary work. Copper, brass, bronze, sterling silver, and semi-precious stones are commonly used; more expensive materials may be used if the student can afford them. Functional and non-functional objects may be made with an emphasis on craftsmanship and aesthetics. Designs from nature, art history, and contemporary culture are encouraged. Students will create, critique, and display original works of art. ART352 is a continuation of ART252.

## **ART301**

### **Drawing II**

Semester: On Demand. Semester Hours: 3.

This is primarily a life drawing class. Working mainly from the human nude and from animals, the student is allowed to explore techniques and create drawings in dry and wet media. "Nature as teacher" is the academic approach in live model sessions; however, other drawing approaches, subject matter, and advanced techniques may be explored. Students will create, critique, and display original works of art.

Prerequisite: ART101

## **ART314**

### **Gallery**

Semester: Fall. Semester Hours: 1.

This course is designed to provide the student with gallery experience. Responsibilities include preparing the gallery for exhibits, providing and collecting entry forms, cataloguing, making and placing labels for student show work, hanging the student

# Academic Programs

show, organizing the artist's reception and advertising for the student show, helping with the hanging/ reception/advertising of all other exhibits including senior shows and those of guest artists, and working with art faculty.

## **ART315**

### **Creativity**

Semester: Fall, alternate years. Semester Hours: 3.

This course approaches creativity as a skill to develop, not as a magical gift bestowed on a few select people. The last three weeks of the course will be devoted to a large-scale project in an area chosen by the student at the time of registration. Two important elements of the course involve a specific style of journaling, and a weekly artist's date. Through the activities in this course, students will bring a higher degree of creativity to their daily lives. This course may be taken either at the lower-division level or at the upper-division level, but not both.

## **ART317**

### **Art, Art History, and Archaeology**

Semester: Summer. Semester Hours: 3.

Students participate in the various aspects of archaeology at a particular locale – in the classroom and on site. Areas of study include but are not limited to the following: excavating, drafting, conservation, pottery analysis, history, art history and cataloging. In addition to working at an excavation, students will explore other historical sites and museums.

## **ART321**

### **Topics in Art History I**

Semester: On Demand. Semester Hours: 3.

Choosing from the prehistoric (as early as 30,000 BC) through the Gothic (as late as AD 1500), this course may explore such topics as Ancient Egypt, Bronze Age and Classical Greece, Imperial Rome, or Medieval Europe. Study focuses on art materials, techniques, style, pre-historical and historical context, aesthetics, and criticism. While traditional methods of studying art history are used (e.g. slide lectures, discussion, written exams, and papers), students are expected to authentically replicate an objet d'art from the studied historical periods as a major project. This course is also web-enhanced, with an interactive class website and required web research and project presentation.

## **ART322**

### **Topics in Art History II**

Semester: On Demand. Semester Hours: 3.

The topic for this course is chosen from Western artistic traditions ranging from the Renaissance, Baroque, Rococo, the nineteenth, or the twentieth centuries. Study focuses on art materials, techniques, style, historical context, aesthetics, and criticism. While traditional methods of studying art history are used (e.g. slide lectures, discussion, written exams, and papers), students are expected to authentically replicate an objet d'art from the studied historical periods as a major project. This course is also web-enhanced, with an interactive class website and required web research and project presentation.

## **ART323**

### **Topics in Art History III**

Semester: On Demand. Semester Hours: 3.

This is a study of the peoples and their art from the non-European traditions. Topics vary and may include Native American cul-

tures such as the Anasazi, Mogollon, or Mimbres and/or the art of Africa or Asia, among others. Study focuses on art materials, techniques, style, prehistorical and historical context, aesthetics, and criticism. While traditional methods of studying art history are used (e.g. slide lectures, discussion, written exams, and papers), students are expected to authentically explicate an objet d'art from the studied historical periods as a major project. This course is also web-enhanced, with an interactive class website and required web research and project presentation.

## **ART331**

### **Painting III**

Semester: Spring. Semester Hours: 3.

This studio course continues the exploration of techniques of oil, acrylic and mixed mediums. It allows students more time to develop techniques and pursue individual projects. Student and instructor will develop a mutually agreeable plan of study at the beginning of the semester. Students will create, critique and display original works of art. Usually ART331 is offered concurrently with ART231.

Prerequisite: ART231

## **ART332**

### **Painting IV**

Semester: Fall. Semester Hours: 3.

This studio course allows the student to continue exploration in the watercolor medium. It allows students more time to develop techniques and pursue individual projects. The option of branching into other mediums is available near mid-semester. The student and instructor will develop a mutually agreeable plan of study at the beginning of the semester. Students will create, critique and display original works of art. Usually ART332 is offered concurrently with ART232.

Prerequisite: ART232

## **ART338**

### **Methods and Materials: Teaching Art in the Elementary School (and Secondary when Applicable)**

Semester: Spring. Semester Hours: 3.

This course focuses on the methods and materials for teaching art in the elementary and middle school (and secondary schools when applicable).

Prerequisite: admission to the teacher education program or permission of the instructor.

## **ART342**

### **Printmaking**

Semester: On Demand. Semester Hours: 3.

Students are introduced to basic relief printmaking as well as techniques such as linoleum and wood cut and calligraphy. Other processes include monoprint, intaglio, silkscreen, and/or computer-generated graphics. Students will create, critique, and display original works of art.

Prerequisite: ART101

## **ART347**

### **Topics in Photography**

Semester: Spring. Semester Hours: 3.

This course explores the methodology of digital photography as it applies to the fields of Adventure/ Lifestyle/Commercial Photography. Camera selection, technology, and use are covered, as are field practices, editing techniques, and elements of

# Academic Programs

composition. Students will create, critique, and present original works of art.

Prerequisite: ART243 or ART247

## **ART350**

### **Sculpture**

Semester: Fall. Semester Hours: 3.

Students will explore the third dimension by creating works in a variety of materials such as clay, plaster, wood, metal, found objects, and mixed media. Processes and techniques include modeling, carving, lost wax casting, and construction. Students will create, critique, and display original works of art.

Prerequisite: ART121

## **ART351**

### **Clay II**

Semester: Fall. Semester Hours: 3.

This clay class offers the student an opportunity to expand ceramic skills according to individual interests. Student and instructor will develop a mutually agreeable plan of study at the beginning of the semester. Students will create, critique, and display original works of art. Usually ART351 is offered concurrently with ART251.

Prerequisite: ART251

## **ART352**

### **Jewelry and Metalwork II**

Semester: Spring. Semester Hours: 3.

Students are allowed to pursue areas of individual interest by investigating advanced techniques and/or by expanding basic jewelry and metalworking skills. Student and instructor will develop a mutually agreeable plan of study at the beginning of the semester. Students will create, critique, and display original works of art. ART352 is a continuation of and is offered concurrently with ART252.

Prerequisite: ART252

## **ART450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. Contract is required.

Prerequisite: junior or senior standing

## **ART483**

### **Senior Project**

Semester: On Demand. Semester Hours: 1.

For art majors and art education majors and minors, this course is designed to help students develop the concept, philosophy, and direction of a body of work for their senior show. Students meet with professor(s) on a weekly basis.

Prerequisite: permission of professor

## **ART490**

### **Art Seminar**

Semester: Fall, Alternate Years. Semester Hours: 2.

Designed for art majors and art education majors and minors, this course explores what it means to be an art professional. Discussion, field trips (e.g. to museums, galleries, artists' studios), art community service, and preparation of a resume, a portfolio,

an artist's statement, and a senior show are the focus of the course. The art seminar is further enhanced by visits from a career counselor and art professionals. The course not only serves as an opportunity for self-assessment by each student, but also requires the assessment of fellow classmates, the art program, and, in the case of art education majors and minors, the application of age-appropriate assessment formats.

Prerequisite: permission of professor

## **ART499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## **Aviation**

*Daniel Hargrove, Professor and Director of Aviation*

*Scott Wilson, Professor*

*Clete Knaub, Assistant Professor of Aviation Management*

*Josh McDowell, Assistant Professor*

*Josh Mlnarik, Director of Flight Operations*

The mission of the Rocky Mountain College aviation program is to educate and train individuals to be professionals and leaders in the aviation industry.

The Rocky Mountain College aviation program provides students with the knowledge and skills required to enter the exciting world of professional aviation. Graduates are prepared to begin careers as pilots or managers in the airline, business, air cargo, military or other sectors in the aviation industry.

Flight training is conducted in Piper and Beechcraft aircraft owned by the College. Glass cockpit aircraft and sophisticated simulators are used in training to prepare graduates for competitive careers in aviation. Further training is conducted using state-of-the-art Canadair Regional Jet (CRJ) flight management system (FMS) simulation. The program emphasizes professional experiences, relevant classroom instruction and safe flight operations that will help transition the students to a successful career after graduation.

Majors are offered in aeronautical science and aviation management, and a minor is offered in aeronautical science. The aeronautical science major combines pilot certification with studies of the air transportation-operating environment. The aviation management major combines studies of aviation with business and economics. Pilot certification is elective under this major.

The minor in aeronautical science includes private pilot certification, plus the knowledge to safely and efficiently use air transportation as part of a business operation or for personal use.

The program emphasizes professional relationships with companies and individuals across the aviation industry and internship opportunities tailored to the desires of each individual student.

# Academic Programs

## Program Accreditation

The Aeronautical Science major and Aviation Management major are both accredited by the Aviation Accreditation Board International (AABI). There are only 26 aeronautical science programs and 31 aviation management programs worldwide accredited by AABI. The organization sets standards for all aerospace programs taught in colleges and universities around the United States and around the world.

## Pilot Certification

Flight education is conducted under Federal Aviation Regulation Part 141 certification. Classroom instruction is conducted on campus, and flight instruction is conducted at flight operations at nearby Billings Logan International Airport. Students majoring in aeronautical science may receive credit for prior learning for the private pilot certificate and the instrument rating completed prior to enrollment. Credit for other FAA certification is reviewed and determined on a case-by-case basis. Once students enroll in the aviation program, all subsequent flight instruction must be received through the Rocky Mountain College aviation program.

## Medical Certification

Aeronautical science majors must obtain a minimum of a Class II FAA medical certificate prior to acceptance into the aviation program. A Class I certificate is recommended. Students minor-ing in aeronautical science must obtain at least a Class III FAA medical certificate, which is required for the private pilot certificate.

## Admission Criteria

Admission to the aviation program is based on demonstrated academic leadership and responsibility, appropriate FAA medical certification, and admission to the College. The number of students admitted to the program each year may be restricted to balance classroom and flight instruction capabilities.

## Program Costs

The cost of flight training is in addition to normal college tuition and fees. The fee for each flight laboratory course is payable at the time of registration. These fees are based on the cost for an average student to complete the flight instruction in the specified syllabus and include costs for FAA knowledge and flight exams. Flight lab completion may carry over from one semester to another.

## Citizenship

All students must show proof of citizenship before beginning flight training. Acceptable forms of proof of U.S. citizenship include an original birth certificate or current passport. International students may take flight training but must comply with procedures established by the U.S. Transportation Security Administration. Contact flight operations for details.

## Major in Aeronautical Science (Professional Pilot)

The following are required as part of the general education core courses:

PSY101 General Psychology  
MAT131 Trigonometry and Applied Calculus

Choose one of the following:

PHS101 Fundamental Physics

PHS105 Principles of Physics  
PHS201 General Physics I

A minimum of 52 semester hours is required in the major, including

AVS100 Introduction to Professional Aviation  
AVS101 Private Pilot Ground School  
AVS150 Aviation Meteorology  
AVS153 Private Pilot Flight Lab  
AVS201 Instrument Rating Ground School  
AVS202 Commercial Pilot Ground School  
AVS203 Introduction to Air Traffic Control  
AVS205 Global Positioning System and Glass Cockpit Lab  
AVS253 Instrument Rating Flight Lab  
AVS272 Commercial Pilot Flight Lab  
AVS273 Commercial Pilot Flight Lab II  
AVS274 Commercial Pilot Flight Lab III  
AVS306 Multi-Engine Rating Ground School  
AVS308 Aviation Safety  
AVS312 Aviation Law  
AVS317 Aircraft Power Plants  
AVS318 Advanced Aircraft Systems  
AVS376 Multi-Engine Rating Flight Lab  
AVS400 Aviation Professional Development  
AVS404 Crew Resource Management with Lab  
AVS405 Air Transportation Management  
AVS419 Air Carrier Operations

Three semester hours of upper-division aviation electives. No internship is required, but is recommended. The first three credits of an internship will be graded. Additional credits up to a maximum of 9 will be graded pass/fail.

## Major in Aviation Management

The following are required as part of the general education core courses:

PSY101 General Psychology  
MAT131 Trigonometry and Applied Calculus

Choose one of the following:

PHS 101 Fundamentals of Physics  
PHS105 Principles of Physics  
PHS201 General Physics I

A minimum of 51 hours is required, including:

AVS100 Introduction to Professional Aviation  
AVS101 Private Pilot Ground School  
AVS150 Aviation Meteorology  
AVS170 Flight Training Observation Lab  
AVS307 FBO and General Aviation Operations  
AVS308 Aviation Safety  
AVS312 Aviation Law  
AVS400 Aviation Professional Development  
AVS405 Air Transportation Management  
AVS450 Internship  
BSA201 Principles of Accounting I  
BSA202 Principles of Accounting II  
BSA311 Principles of Finance  
BSA321 Principles of Management  
BSA343 Principles of Marketing  
ECO201 Principles of Macroeconomics  
ECO202 Principles of Microeconomics

# Academic Programs

## MAT210 Probability and Statistics

Six semester hours of upper division electives in aviation or business. Three credits of internship are required and will be graded. Additional credits up to a maximum of 9 will be graded pass/fail.

### Minor in Aeronautical Science

A minimum of 20 semester hours, including:

- AVS101 Private Pilot Ground School
- AVS150 Aviation Meteorology
- AVS153 Private Pilot Flight Lab
- AVS203 Introduction to Air Traffic Control
- AVS308 Aviation Safety

Five semester hours of aviation electives. At least three of the elective credits must be in upper division courses.

## Aviation courses

### AVS100

#### Introduction to Professional Aviation

Semester: Fall. Semester Hours: 1.

Introduces students to the aviation curriculum and the liberal arts core curriculum as a foundation for personal growth and development. Investigates aviation career options with an emphasis on the necessary knowledge, skills, and attributes of an aviation professional. Introduces aviation safety and human factor issues. Learning activities include professional reading and writing.

### AVS101

#### Private Pilot Ground School

Semester: Fall and Spring. Semester Hours: 4.

Prepares the student for the FAA private pilot knowledge examination. The student is introduced to the principles of aerodynamics, aircraft systems and performance, meteorology and aviation weather data, aviation physiology, navigation, flight planning, and aviation decision-making.

Corequisite: AVS153

### AVS150

#### Aviation Meteorology

Semester: Fall and Spring. Semester Hours: 3.

Provides a detailed knowledge of the environmental factors critical to safe flight operations. The course covers weather systems, upper-air characteristics, flight hazards, weather-related topics in flight safety, meteorological flight planning, use of weather information systems, and the reports and charts used for aviation weather reporting and forecasting.

Prerequisite: AVS 101

### AVS153

#### Private Pilot Flight Lab

Semester: Fall, Spring, and Summer. Semester Hours: 2 EL.

Students complete all three stages of the Private pilot flight syllabus. This course includes dual and solo flight and covers pre-flight preparation, aircraft operation procedures, proper aircraft flight control, air and ground safety, flight maneuvers, air traffic control procedures and communication,

and VFR navigation. This course prepares students for the FAA private pilot oral and flight examinations. The FAA private pilot certificate must be completed to fulfill course requirements.

Corequisite: AVS101

### AVS170

#### Flight Training Observation Lab

Semester: Fall and Spring. Semester Hours: 1.

This course is for students majoring in aviation management who do not want to earn a private pilot certificate. The course provides students with guided observation of private, instrument, commercial, multi-engine and crew resource management flight training. It is designed to increase the student's understanding of factors basic to flight operations, aviation meteorology, air traffic control, flight navigation, and the development of a professional pilot.

Corequisite: AVS101

### AVS200

#### Intercollegiate Flight Team Competition

Semester: Fall and Spring. Semester Hours: 1.

Students train for and participate in intercollegiate flight competition as a member of the Rocky Mountain College Flight Team. Additional fee required during semesters in which the team participates in competition.

### AVS201

#### Instrument Rating Ground School

Semester: Fall, Spring, and Summer. Semester Hours: 3.

This course prepares students for the FAA instrument rating knowledge examination, providing an in-depth study of flight instruments, physiology of flight, aviation weather reports and forecasting, radio navigation, instrument departure, en route and arrival procedures, flight planning, and emergency procedures.

Prerequisite: AVS101, AVS153; or permission of the director of aviation

Corequisite: AVS253

### AVS202

#### Commercial Pilot Ground School

Semester: Fall and Spring. Semester Hours: 3.

This course prepares students for the FAA commercial pilot knowledge examination, covering meteorology, airspace, pilotage, aviation physiology, advanced aerodynamics, commercial flight maneuvers, aircraft stability and performance, flight in complex aircraft, flight management and emergency procedures, and regulations related to commercial flight operations.

Prerequisite: AVS201, AVS253; or permission of the director of aviation

Corequisite: AVS272

### AVS203

#### Introduction to Air Traffic Control

Semester: Fall. Semester Hours: 3.

This course provides a detailed study of the science of air traffic control for professional pilots and aviation managers. Topics include the national airspace system, air traffic control, navigation aids, communications and operations procedures, airport traffic control, radar operations, and ATC facility management.

Prerequisite: AVS101

# Academic Programs

## **AVS205**

### **Global Positioning System and Glass Cockpit Lab**

Semester: Fall and Spring. Semester Hours: 1.

Students complete hands-on global positioning system and glass cockpit training using software in the classroom and hardware in flight training devices in order to integrate and apply these systems in instrument flight.

Prerequisite: AVS101, AVS153

Corequisite: AVS201 and AVS253

## **AVS231**

### **Aviation History**

Semester: Spring. Semester Hours: 3.

This course outlines the evolution of aviation from early glider and balloon flights to modern jets and the space age. The course examines the multiple ways that technology and warfare have advanced aviation. Topics of study include specific flights, significant aviators, and particular aircraft that have improved general, commercial, and military aviation. The course discusses current developments and future trends in aviation.

## **AVS243**

### **Aviation Winter Survival**

Semester: Spring. Semester Hours: 1.

This course consists of a trip to another town in Montana for training over a weekend in January. The course includes classroom and field work on how to survive in winter conditions. Training includes staying in the field overnight for one night. There is a small fee, plus cost of travel and one night lodging. Registration with the Montana Aeronautics Division, which is the sponsor, must be completed by Dec 1st. Pass/no pass grading.

Prerequisite: AVS101

## **AVS253**

### **Instrument Rating Flight Lab**

Semester: Fall, Spring, and Summer. Semester Hours: 2.

Students complete all three stages of the instrument pilot flight syllabus, which includes instrument departure, en route and approach procedures in both the airplane and flight training device (simulator). This course prepares students for the FAA instrument rating oral and flight examinations. FAA instrument rating must be completed to fulfill course requirements.

Prerequisite: AVS101 and AVS153 or private pilot certificate

Corequisite: AVS201

## **AVS272**

### **Commercial Pilot Flight Lab I**

Semester: Fall, Spring, and Summer. Semester Hours: 1.

This course provides flight instruction covering commercial navigation, cross-country flights, and night flying procedures allowing students to complete stage 1 of the flight syllabus.

Prerequisite: AVS253

Corequisite: AVS202

## **AVS273**

### **Commercial Pilot Flight Lab II**

Semester: Fall, Spring, and Summer. Semester Hours: 1.

This course provides flight instruction covering commercial flight maneuvers allowing students to complete Stage two of the flight syllabus.

Prerequisite: AVS272

## **AVS274**

### **Commercial Pilot Flight Lab III**

Semester: Fall, Spring, and Summer. Semester Hours: 1.

This course provides flight instruction providing a continuation of commercial flight maneuvers and complex aircraft flight procedures. Students complete stage three of the flight syllabus and become prepared for the FAA commercial pilot oral and flight examinations. The FAA commercial pilot certificate must be completed to fulfill course requirements.

Prerequisite: AVS273

## **AVS301**

### **Certified Flight Instructor Ground School**

Semester: Fall and Spring. Semester Hours: 3.

This is a two-part course that prepares students for the FAA Fundamentals of Instruction and Flight Instructor Knowledge Examinations. Part one covers fundamentals of teaching and learning, including effective teaching methods, aerodynamics analysis, instructional syllabus development, and flight instructor responsibilities. Part two addresses the analysis of flight maneuvers involved in the private, commercial, and flight instructor certificates.

Prerequisite: AVS201, AVS202, and AVS274; or permission of the director of aviation

## **AVS306**

### **Multi-Engine Rating Ground School**

Semester: Fall and Spring. Semester Hours: 1.

This course covers the operation of multi-engine airplanes including performance, normal and emergency operating procedures, electrical and hydraulic systems, and other installed equipment commonly found on multi-engine airplanes.

Prerequisite: AVS202, AVS273, or permission of the director of aviation

Corequisite: AVS376

## **AVS307**

### **FBO and General Aviation Operations**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course examines the factors involved in running a successful fixed base operation (FBO) and operating a general aviation business. The course includes the certification process, management operations, and marketing strategies. The course also studies the evolving role of FBOs, from their pilot-oriented roots to their business-oriented future.

## **AVS308**

### **Aviation Safety**

Semester: Spring. Semester Hours: 3.

This course provides a forum for understanding the safe operation of aircraft. The focus is on human factors in the aviation safety environment. Topics of study include aircraft technology, human physiology, psychology, air traffic control, navigational facilities, weather, accident investigation, and crew resource management.

Prerequisite: sophomore standing, junior preferred

## **AVS310**

### **Airport Planning and Administration**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course provides a forum for understanding the elements of proper airport planning and the importance of achieving a

# Academic Programs

successful airport operation. The course studies the duties and responsibilities of an airport manager at a large airport, as well as departments such as crash/fire/rescue, facilities, administration, and maintenance. The course also covers the criteria for blending the airport into federal and state plans and for achieving FAA approval.

Prerequisite: sophomore standing, junior preferred

## **AVS312**

### **Aviation Law**

Semester: Fall. Semester Hours: 3.

This course provides a forum for understanding the statutes, regulations, and case law governing aviation. Topics of study include administrative law, FAA enforcement, aviation medical issues, business organizations, airline liability, aircraft accidents, aircraft transactions, and airline labor law.

Prerequisite: sophomore standing

## **AVS317**

### **Aircraft Power Plants**

Semester: Fall. Semester Hours: 3.

An in-depth study of reciprocating, turbine, and turbo-prop engines and propeller systems and the engine accessory equipment used on modern aircraft.

Prerequisite: AVS202, PHS101 or PHS105 or PHS201, or permission of professor

## **AVS318**

### **Advanced Aircraft Systems**

Semester: Spring. Semester Hours: 3.

An in-depth study of advanced aircraft systems including fuel, hydraulic, electrical, engine accessory, and auxiliary systems.

Prerequisite: AVS202 or permission of professor

## **AVS325**

### **Advanced Flight Systems**

Semester: Fall and Spring. Semester Hours: 3.

This course provides an introduction to modern cockpit technology used in air transport aircraft. The course addresses the function and operation of glass cockpit aircraft operating equipment such as satellite-based and inertial navigation systems, autopilots, flight management systems, electronic flight information systems, ground proximity warning systems, traffic collision avoidance systems, datalink systems, electronic flight bags, weather radar, enhanced/synthetic vision systems, flight data, cockpit voice recording systems and emergent technologies.

Prerequisite: AVS201, AVS253

## **AVS343**

### **Altitude Chamber Training**

Semester: Spring. Semester Hours: 1.

This course provides classroom instruction and hands-on training on the physiological effects and hazards associated with high altitude flight. The course includes a field trip to participate in training in an altitude chamber. Pass/no pass grading. There is a course fee.

Prerequisite: AVS101, AVS153

## **AVS361**

### **Certified Flight Instructor Flight Lab (FAA Part 141)**

Semester: Fall, Spring, and Summer. Semester Hours: 2.

This course provides flight instruction under FAR Part 141 prepares students for the FAA flight instructor oral and flight examinations. The course includes dual flights covering all maneuvers necessary to instruct students for the private and commercial pilot certificates. The FAA flight instructor certificate must be completed to fulfill course requirements.

Prerequisite: AVS274

Corequisite: AVS301

## **AVS362**

### **Instrument Flight Instructor (FAA Part 141)**

Semester: Fall, Spring, and Summer. Semester Hours: 2.

This course provides ground and flight instruction under FAR Part 141 prepares students for the FAA instrument flight instructor written, oral, and flight examinations. The FAA instrument instructor rating must be completed to fulfill course requirements.

Prerequisite: AVS361 or AVS371

## **AVS363**

### **Multi-Engine Flight Instructor (FAA Part 141)**

Semester: Fall, Spring, and Summer. Semester Hours: 1.

This course provides ground and flight instruction under FAR Part 141, preparing students for the FAA multi-engine flight instructor rating oral and flight examinations. The FAA multi-engine instructor rating must be completed to fulfill course requirements.

Prerequisite: AVS361 or AVS371

## **AVS371**

### **Certified Flight Instructor Flight Lab (FAA Part 61)**

Semester: Fall, Spring, and Summer. Semester Hours: 2.

This course provides flight instruction under FAR Part 61, preparing students for the FAA flight instructor oral and flight examinations. The course includes dual flights covering all maneuvers necessary to instruct students for the private and commercial pilot certificates. The FAA flight instructor certificate must be completed to fulfill course requirements.

Prerequisite: AVS274

Corequisite: AVS301

## **AVS372**

### **Instrument Flight Instructor (FAA Part 61)**

Semester: Fall, Spring, and Summer. Semester Hours: 1.

This course provides ground and flight instruction under FAR Part 61, preparing students for the FAA instrument flight instructor written, oral, and flight examinations. The FAA instrument instructor rating must be completed to fulfill course requirements.

Prerequisite: AVS361 or AVS371

## **AVS373**

### **Multi-Engine Flight Instructor (FAA Part 61)**

Semester: Fall, Spring, and Summer. Semester Hours: 1.

This course provides ground and flight instruction under FAR Part 61, preparing students for the FAA multi-engine flight instructor rating oral and flight examinations. The FAA multi-engine instructor rating must be completed to fulfill course requirements.



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Prerequisite: AVS361 or AVS371

## **AVS376**

### **Multi-Engine Rating Flight Lab**

Semester: Fall, Spring, and Summer. Semester Hours: 1.

This course provides flight instruction, preparing students for the FAA Multi-engine rating oral and flight examinations. Areas covered include emergency procedures, single engine operations, and control of the aircraft by sole reference to flight instruments. The FAA multi-engine rating must be completed to fulfill course requirements.

Prerequisite: AVS274

Corequisite: AVS306

## **AVS400**

### **Aviation Professional Development**

Semester: Fall and Spring. Semester Hours: 1.

This culminating course focuses on professional issues and integrates all facets of the student's college educational experience. Students explore issues in aviation including professional standards, ethics, and career advancement. Guest lectures will provide perspectives from leaders in the aviation industry. Prepares the graduate for transition to a career in aviation and develops job placement skills.

Prerequisite: senior standing

## **AVS404**

### **Crew Resource Management with Lab**

Semester: Fall and Spring. Semester Hours: 2.

This course provides advanced ground and simulator instruction with an emphasis on the application of aviation and human factors in Crew Resource Management skills. The lab includes Line-Oriented Flight Training (LOFT) sessions in a flight-training device to develop crew resource management skills in a variety of realistic situations encountered by flight crews.

Prerequisite: AVS376 or permission of the director of aviation

## **AVS405**

### **Air Transportation Management**

Semester: Fall. Semester Hours: 3.

This course provides a comprehensive experience for the aviation or business student by examining the air transportation industry. Areas of concentration: airline operation, maintenance, marketing, and economic factors affecting the industry. The class uses a simulation program where students create an airline and then compete with other students.

Prerequisite: junior or senior standing

## **AVS410**

### **Advanced Aerodynamics and Aircraft Performance**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course covers advanced theories of flight and performance factors including airfoil shape; theories of lift and drag; velocity; power and thrust; stability and control; high speed aerodynamics; Mach effects; advanced principles of performance, capabilities, and limitations; performance design criteria; and load factors.

Prerequisite: AVS202 and MAT131; AVS274 is preferred

## **AVS419**

### **Air Carrier Operations**

Semester: Fall and Spring. Semester Hours: 3.

This course focuses on a study of transport category aircraft systems; flight planning; airport analysis; advanced weather analysis; and economic and safety issues related to transport category aircraft operations, including HMR 175 and FAR Part 135 and 121 regulatory requirements. This course provides the knowledge required to qualify for the FAA airline transport pilot and aircraft dispatcher knowledge examinations.

Prerequisite: AVS202, AVS405

## **AVS443**

### **Airline Dispatcher Certification**

Semester: Spring. Semester Hours: 2.

This course is a culminating study of airline operations, preparing students for the FAA dispatcher certification knowledge and practical examinations. Students must be 21 years of age by the middle of the semester that the course is taken to meet FAA examination requirements.

Prerequisite: AVS150, AVS201, AVS203, AVS205, AVS318, AVS419. The FAA dispatcher written exam (ADX) is also a prerequisite.

## **AVS447**

### **Boeing 737 Aircraft Systems**

Semester: Fall, Spring, and Summer. Semester Hours: 1.

This course is an in-depth study of the systems of the Boeing 737 aircraft, including hydraulics, avionics, electrics, air conditioning, and flight controls. Students work with computer-based training software as used by numerous airlines. This independent study course is conducted and tested much like initial 737 ground training at an airline.

Prerequisite: AVS202

Corequisite: AVS318

## **AVS449**

### **Regional Jet Aircraft Systems**

Semester: Fall, Spring, and Summer. Semester Hours: 1.

This course is an in-depth study of the systems of the Canadair Regional Jet (CRJ) aircraft, including hydraulics, avionics, electrics, air conditioning, flight controls, etc. Students work with computer-based training software as used by numerous airlines. This independent study course is conducted and tested much like initial CRJ ground training at an airline.

Prerequisite: AVS202

Corequisite: AVS318

## **AVS450**

### **Internship**

Semester: Fall, Spring, and Summer. Semester Hours: 1-12.

This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. The internship should relate to the student's major or minor area of study. Contract is required.

Prerequisite: junior or senior standing and permission of the director of aviation

# Academic Programs

## AVS499

### Independent Study

Semester: On Demand. Semester Hours: 1-3.

This course allows a strong student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## Biology

*Daniel Albrecht, Professor*

*Cristi Hunnes, Professor*

*Claire Oakley, Professor*

*Mark Osterlund, Associate Professor*

*Philip Jensen, Assistant Professor*

The biology program studies the breadth of life, from cellular mechanisms to ecosystem processes. Students are encouraged to view biological concepts from historical, political, and ethical perspectives as they integrate new ideas and concepts with older ones. The faculty stresses the process of science and the ability to analyze the surrounding world by generating hypotheses, testing hypotheses, analyzing data, and drawing conclusions. Students develop oral and written communication skills through active participation in lecture/discussions and collaborative projects both in the classroom and in laboratory/field settings.

Biology students at Rocky Mountain College get a broad exposure to the three main areas of biology. Our goal is that graduates, no matter what career path they may choose, will have a solid understanding of the cellular and molecular basis of life, the design and function of individual organisms, and the ecological interactions between organisms. Furthermore, we emphasize research skills, experimental design, and data analysis throughout all courses. The program provides biology majors with a broad foundation, which prepares them for professional schools, the workplace or graduate school.

### Major in Biology

A minimum of 29 semester hours of biology courses.

Biology core:

BIO120 Principles of Biology

BIO203 Genetics

BIO306 Evolution

One course from each of the following three categories:

Cell and Molecular Biology:

BIO312 Cell Biology

BIO344/345 Molecular Genetics

BIO350 Microbiology

BIO/CHM452 Biochemistry I

BIO/CHM460 Biochemistry II

Ecology and Behavior:

BIO311 Botany

BIO347 Animal Behavior

BIO410 Conservation Bio

BIO415 Ecology

Structure and Function:

BIO252 Animal Physiology

BIO305 Vertebrate Anatomy

BIO317 Ornithology

BIO321 Human Anatomy and Physiology I

BIO322 Human Anatomy and Physiology II

BIO324 Developmental Biology

Students must have a capstone course and may choose from the following:

BIO415 Ecology

BIO/CHM452 Biochemistry

(This capstone choice may be included as one of the categories above.)

In addition:

IDS243 Scientific Writing and Analysis

CHM101 General Chemistry I

CHM102 General Chemistry II

Choose:

CHM220 Fundamental Organic Chemistry

OR

CHM251/CHM 252 Organic Chemistry I/Organic Chemistry II

Choose:

PHS101/PHS102 Fundamental Physics I/ Fundamental Physics II

OR

PHS201/PHS202 General Physics I/ General Physics II

Only 3 credits of the following electives count toward the 29 credits required in the major:

BIO143 Introduction to Research I

BIO243 Introduction to Research II

BIO343 Introduction to Research III

BIO443 Advanced Biology Research

Internship: BIO450 credits do not count toward the 29 credit minimum.

### Major in Biology Education

Students must complete the above biology major and the required secondary education courses.

### Major in Science Broadfield Education Biology

This major serves those who desire to teach the several sciences necessary in American schools. In addition to the science courses listed below, students must complete the professional education program for secondary teaching as described in the "education" section of the catalog. The following courses are required:

Biology: A total of 23 credits hours in biology including:

BIO120 Principles of Biology

BIO203 Genetics

BIO306 Evolution

Choose any two of the following:

BIO321 Human Anatomy and Physiology I

BIO350 Microbiology

BIO415 Ecology

Mathematics:

# Academic Programs

MAT175 Calculus I  
MAT210 Probability and Statistics

## Chemistry:

CHM101 General Chemistry I  
CHM102 General Chemistry II

Choose any one of the following:

CHM220 Fundamental Organic Chemistry  
CHM251 Organic Chemistry I

## Physics:

PHS101 Fundamental Physics I  
PHS102 Fundamental Physics II  
PHS225 Modern Physics

## Geology:

GEO101 Fundamentals of Geology, Option I  
GEO104 Fundamentals of Geology Laboratory

## Environmental Science:

ESC105 Environmental Science: Sustainable Communities

IDS422 Methods and Materials: Teaching Science in the Secondary School.

## Minor in Biology

A minimum of 20 semester hours in biology (6 credits of upper-division courses), IDS243, plus one course in chemistry with a laboratory component is required.

## Minor in Biology Education

For students pursuing a teaching minor in biology, the following courses must be taken in addition to coursework required in the secondary education program: a minimum of 24 hours in biology including:

BIO120 Principles of Biology  
BIO203 Genetics  
BIO306 Evolution  
BIO415 Ecology  
IDS243 Scientific Writing and Analysis

Choose one of the following:

BIO311 Botany  
BIO317 Ornithology  
BIO350 Microbiology

Choose one of the following:

BIO252 Animal Physiology  
BIO321 Human Anatomy and Physiology I

Additionally, one chemistry course with a laboratory component is required. Note: The following courses are eligible for biology credit:

ESC307 Advanced Field Botany/ Spring Wildflowers  
ESC314 Range Ecology  
ESC325 Wetlands and Riparian Ecology

EQS300 will be accepted as a biology elective for students who have successfully completed BIO111 and BIO112 or BIO120, CHM101, and CHM102. Note: EQS300 and EQS400 are highly

recommended for students pursuing veterinary school or graduate programs in animal science.

## Biology courses

### BIO102

#### Introduction to Biology

Semester: Summer, On Demand. Semester Hours: 4.

This course is a broad survey of biology approaching different levels of biological organization from the perspective of the organism in the environment. Specific topics include genetics, evolution, ecology, metabolism, and the cell. The laboratory emphasizes the process of scientific investigation, including the design, conduct, analysis, and presentation of biological experiments. This course is appropriate for non-biology majors and does not count toward a major or minor in biology.

### BIO105

#### Current Biology

Semester: Fall, Even Years. Semester Hours: 3.

This course for non-majors will explore concepts that are both rooted in biology and important in our everyday lives. One such example is the stem cell: what exactly are stem cells, and why are they important tools for biology and medicine? In this course we will examine a broad range of topics including stem cells, genetically modified organisms, evolution, cancer, and the practice of science itself. These subjects will be addressed in a traditional classroom setting, but assignments will demand that students apply the course material to current happenings in our society. Points will be earned by completing quizzes, response papers, and projects. This course has no laboratory component and does not count toward a major or minor in biology.

### BIO111

#### General Biology I

Semester: On Demand. Semester Hours: 4.

An introductory survey emphasizes the cell, cellular respiration, photosynthesis, genetics, and molecular biology. The weekly laboratories teach basic laboratory skills, safety, experimental design, and the application of statistics. Three hours of lecture and one two-hour laboratory session per week.

### BIO112

#### General Biology II

Semester: On Demand. Semester Hours: 4.

An introductory course emphasizes organization within the individual, population, and community levels of biology. Topics include basic genetics, population genetics, evolution, diversity of organisms, and ecology. The laboratory emphasizes the process of scientific investigation, including the design, analysis, and presentation of biological experiments. Field trips outside of regular class time may be required. Three hours of lecture and one two-hour laboratory session per week.

### BIO120

#### Principles of Biology

Semester: Fall and Spring. Semester Hours: 4.

An introductory survey course that covers cell structure and metabolism, patterns of inheritance, molecular genetics, evolutionary mechanisms, and diversity. The weekly laboratory sessions teach basic laboratory skills, experimental design, application of statistics, and communication of results via laboratory reports.

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This course is appropriate for both major and non-majors. Three hours of lecture and one two-hour laboratory period per week.

## **BIO143**

### **Introduction to Research I**

Semester: Spring. Semester Hours: 1.

Introduction to Research I is a laboratory based course that teaches students the fundamentals of biological research. The course is limited to ten freshmen students who must submit an application and be accepted into the course. Those students gain exposure to several of the model organisms that are commonly used in research. They learn techniques for growing, handling and characterizing those organisms, along with routine procedures that are universally applicable for molecular biology. Students who complete Introduction to Research I are eligible to enroll in Introduction to Research II. Students must apply for acceptance to the course.

## **BIO203**

### **Genetics**

Semester: Fall. Semester Hours: 4.

The course provides a detailed overview of the mechanisms of heredity. Topics include Mendelian, quantitative, and molecular genetics. Three hours of lecture per week and one two-hour laboratory session per week.

Prerequisite: BIO111, BIO112, and CHM101

Corequisite: IDS243

## **BIO240**

### **Biology of HIV/ AIDS**

Semester: On Demand. Semester Hours: 3.

This course explores HIV from its mechanism of action to its contribution to the opportunistic infections of AIDS, and includes the scientific/biological basis for therapies. Guest speakers play a vital role in linking the biological aspects to the human condition.

Prerequisite: BIO 120 and CHM 101/102

## **BIO243**

### **Introduction to Research II**

Semester: Fall, Each Year. Semester Hours: 2.

Introduction to Research II is a laboratory and lecture based course that meets for three hours once a week. As a continuation of Introduction I, sophomore students learn advanced biological research protocols in a laboratory setting. Protocols include DNA cloning and various forms of DNA and RNA hybridization. Students also participate in a weekly discussion format where they learn to read, analyze and present scientific journal articles. Students who have completed Introduction to Research I are eligible to enroll in Introduction to Research II. Students completing Introduction to Research II are eligible to enroll in Introduction to Research III.

Prerequisite: BIO143

## **BIO252**

### **Animal Physiology**

Semester: On Demand. Semester Hours: 3.

Designed for students pursuing studies in ecology, biodiversity, and environmental science. This class introduces students to the basic concepts of animal regulation. Feedback and homeostasis are foundational concepts in biology. An introductory biology and introductory chemistry class are highly recommended.

## **BIO305**

### **General Vertebrate Zoology**

Semester: Fall, Odd Years. Semester Hours: 4.

This course provides a detailed overview of the species diversity, natural history, and evolution of vertebrates. These concepts are highlighted through comparisons within and between vertebrate groups. Special emphasis is placed on evolutionary relationships to track key innovations in morphology, physiology, and ecology that have contributed to vertebrate diversification. Three hours of lecture and one two-hour laboratory session per week.

Prerequisite: BIO306

## **BIO306**

### **Evolution**

Semester: Spring. Semester Hours: 3.

A broad but detailed discussion of the genetic, ontogenetic, and morphologic changes inherent in populations. Topics include population genetics, molecular evolution, natural selection, genetic drift, gene flow, speciation, phylogenetics, and coevolution. Three hours of lecture per week.

Prerequisite: BIO120

## **BIO307**

### **Bacteria and Antibiotic Resistance**

Semester: Spring, Even Years. Semester Hours: 3.

This course will focus on antimicrobial drugs and their use in fighting bacterial infections. Topics will include the history of antibiotics, antibiotic resistance of bacteria, including resistance mechanisms and transfer of resistance, development of new antibiotics and the drug development pipeline, how antibiotics work, antibiotic stewardship, and use of antibiotics in the animal industry. Bacteria of particular public health concern, such as methicillin-resistant *Staphylococcus aureus* (MRSA), and *Pseudomonas aeruginosa*, will be featured.

Prerequisite: BIO 203 and CHM 102, both passed with a grade of C- or better.

## **BIO311**

### **Botany**

Semester: Spring, Odd Years. Semester Hours: 4.

This course provides a detailed exploration of plant anatomy and physiology. Microscope study allows for detailed observation of roots, stems and leaves and their component tissues. Examination of flowers, fruits, and seeds provides the details of pollination, fertilization, dispersal and germination. During the laboratory, students explore topics such as plant physiological responses to hormones and nutrients, characteristics and mechanisms of genetic inheritance, and ecological aspects of plant competition. The course emphasizes the relationship between plant form and function.

Prerequisite: BIO120 and CHM101

## **BIO312**

### **Cell Biology**

Semester: Spring. Semester Hours: 3.

Cells are the basic units of life, and understanding cells is important for many disciplines within biology. This course examines fundamental cell biology, with emphasis on the mechanisms of molecular biology, cellular trafficking, and cell-to-cell signaling. The semester will culminate with the discussion of complex cellular behaviors such as regulation of the cell cycle, renewal of stem cells, and the progression of cancer. Each of these con-

# Academic Programs

cepts will be discussed in the context of experimentation and hypothesis-driven research. Three hours of lecture per week.

Prerequisite: BIO203

## **BIO317**

### **Ornithology**

Semester: Fall, Even Years. Semester Hours: 3.

This lecture course details the anatomy, physiology, and evolution of birds. Topics include evolutionary origins of birds and flight, development, and an overview of avian anatomy, physiology, and ecology. Three hours of lecture per week.

Prerequisite: BIO306

## **BIO319**

### **Ornithology Lab**

Semester: On Demand. Semester Hours: 1.

This combined field and laboratory course covers the anatomy, physiology, ecology, evolution, and identification of birds. Topics include evolutionary origins of birds and flight, development, avian anatomy, and bird identification in the field. One two-hour laboratory session per week.

Corequisite: BIO317

## **BIO321**

### **Human Anatomy and Physiology I**

Semester: Fall. Semester Hours: 4.

A course requiring students to incorporate concepts from physics, chemistry, and biology to understand the interface between human structure and function and the regulatory mechanisms in play. Topics include tissue types, skeletal, muscular, nervous, respiratory, and reproductive anatomy and physiology. Three hours of lecture and one two-hour laboratory session per week. Human cadavers are used in the laboratory.

Prerequisite: BIO111 and BIO112 or BIO 120 and CHM101 and CHM102. CHM251 and CHM252 and PHS102 or PHS 202 are highly recommended.

## **BIO322**

### **Human Anatomy and Physiology II**

Semester: Spring. Semester Hours: 4.

In this continuation of BIO321, topics include digestive, cardiovascular, renal, urinary acid-base balance, endocrine, and immune system anatomy and physiology. Three hours of lecture and one two-hour laboratory session per week. Human cadavers are used in the laboratory.

Prerequisite: BIO321

## **BIO324**

### **Developmental Biology**

Semester: Spring, Odd Years. Semester Hours: 4.

How do many animals develop from a fertilized egg into complex animals, some with trillions of cells? This course examines the development of complex animals from embryo to adult. In this course you will explore the mechanisms behind how an embryo establishes a body plan, grows new structures, and determines its sex. The course concludes by considering environmental effects on this process, as well as its implications for medicine and evolutionary biology. Each of these concepts will be discussed in the context of experimentation and hypothesis-driven research. Students will apply their knowledge by conducting novel research during the laboratory portion of the

course. Three hours of lecture and two hours of laboratory per week.

Prerequisite: BIO203

## **BIO343**

### **Introduction to Research III**

Semester: Spring. Semester Hours: 2.

Introduction to Research III is a laboratory and lecture based course that prepares students for independent upper division research. By working with individual faculty members, each student will develop an independent research project. Using techniques learned in Introduction to Research I and II, students will perform preliminary research associated with their projects, and they will learn to write and present formal research proposals for those projects. Students enrolled in Introduction to Research III will also act as mentors to students enrolled in Introduction to Research I. Students must complete Introduction to Research I and II to be eligible to enroll in Introduction to Research III.

Prerequisite: BIO243

## **BIO344**

### **Molecular Genetics**

Semester: Fall. Semester Hours: 3.

Students will study the molecular mechanisms that compose the Central Dogma of Molecular Biology. Special attention will be given to genomic structure, DNA replication, transcription, RNA processing, translation, and post-translational modification. Basic techniques in molecular biology will be discussed, and these techniques will be practiced during BIO345, which is a co-requisite course. Three hours of lecture per week. (Note: Students who have completed BIO143 and who are enrolled in BIO243 are exempt from the BIO345 laboratory course.)

Prerequisite: BIO111

Corequisite: BIO345

## **BIO345**

### **Molecular Genetics Laboratory**

Semester: Fall. Semester Hours: 1.

This course includes a hands-on, laboratory-based introduction to basic molecular biology techniques, with special emphasis on cloning and manipulation of DNA. Techniques include electrophoresis, restriction digestion, polymerase chain reaction (PCR), ligation, transformation, DNA extraction, and Southern blotting. Students who have completed BIO143 and who are enrolled in BIO243 are exempt from this course. Two hours of laboratory per week.

Prerequisite: BIO111

Corequisite: BIO344

## **BIO347**

### **Animal Behavior**

Semester: Spring, Even Years. Semester Hours: 3.

This course provides a broad overview of the development, expression, and control of behavior. This course provides a foundation for understanding animal ecology, revealing evolutionary relationships, and managing fish and wildlife populations. Topics include communication, predation, foraging, mating, parental care, and sociality.

Prerequisite: BIO306

# Academic Programs

## **BIO349**

### **Animal Behavior Lab**

Semester: On Demand. Semester Hours: 1.

This course provides a broad overview of the development, expression, and control of behavior. This course provides a foundation for understanding animal ecology, revealing evolutionary relationships, and managing fish and wildlife populations. Topics include communication, predation, foraging, mating, parental care, and sociality. One two-hour laboratory session per week.

Corequisite: BIO347

## **BIO350**

### **Microbiology**

Semester: Fall. Semester Hours: 4.

This course is an investigation of the structure, metabolism, and reproduction of microorganisms. The course will emphasize understanding microbiology as it pertains to human health, including normal flora, disease mechanisms, immunology and immunity, and a sampling of major microbial diseases. In the laboratory, students will detect, isolate, and identify both harmless and pathogenic microbes.

Prerequisite: BIO 203 and CHM 102, both passed with a grade of C- or higher

## **BIO380**

### **Coastal Field Ecology**

Semester: Spring. Semester Hours: 1.

Coastal Field Ecology is a one credit course featuring a field trip to Puget Sound and the Washington coast in early May. During the spring semester, a series of five lectures will introduce students to the geological and ecological characteristics of the Puget Sound area. During the field portion of the course, students will stay on Whidbey Island at the Pacific Rim Institute's field station. Daily classroom and field sessions will focus on the variety of coastal habitats (rainforest, estuaries, rocky intertidal zone, etc.), with an emphasis on the marine conservation issues.

Prerequisite: BIO306

## **BIO410**

### **Conservation Biology**

Semester: Spring, Odd Years. Semester Hours: 2-3.

Students experience a multi-disciplinary approach to conservation encompassing genetics to ethics. Discussions emphasize biological diversity, extinction probability theory, reserve design, management, and reintroduction strategies. Written and oral presentations are required.

Prerequisite: BIO306

## **BIO415**

### **Ecology**

Semester: Fall. Semester Hours: 5.

Students are provided with an overview of the interactions among biotic and abiotic environments. Topics include climate and vegetation, resource acquisition and allocation, demography, population growth and regulation, sociality, competition, niche theory, predation, and community and ecosystem ecology. Three hours of lecture and one two-hour laboratory session per week.

Prerequisite: BIO306

## **BIO420**

### **Methods and Materials of Teaching Secondary Science**

Semester: On Demand. Semester Hours: 2.

This course requires focused study with a science teacher in an accredited secondary school or other acceptable professional. Hours will be arranged in consultation with the content area professor, the secondary education professor, the student, and the professional mentor. The course provides competence for the delivery and evaluation of planned learning activities. Areas of concentration include active hands-on experiences, reviewing texts for content appropriate to various grade levels, and the use of technology in the classroom.

Prerequisite: acceptance in the teacher education program; senior standing required

## **BIO443**

### **Advanced Biology Research**

Semester: Fall and Spring. Semester Hours: 1-3.

In this course, students work with a research advisor on an independent research project. Enrollment is based upon instructor consent and requires each participant to have arranged a working agreement with a research advisor. Included in the course is a weekly forum for students to present and discuss their research projects. All enrolled students are required to give presentations highlighting their research. Through those presentations, participants in the class will be exposed to the diverse research initiatives at Rocky Mountain College. This course is offered every semester and can be taken up to four times.

Prerequisite: BIO 343 or consent of instructor

## **BIO450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

Pass/fail. An internship is arranged between a member of the discipline's faculty and the student. The internship will not count as part of the minimum number of required credits to the major or minor. Contract required. If an internship is two or more credits, the student will typically be required to write a paper. The contract will specify the minimum length of the paper and the required scholarly sources.

Prerequisite: junior or senior standing

## **BIO452**

### **Biochemistry I**

Semester: Spring. Semester Hours: 5.

Biochemistry focuses on the study of the molecules and chemical reactions of life, bringing together principles learned in biology and chemistry. After an introduction to the chemistry and structure of carbohydrates, lipids, and proteins, discussions of enzyme structure and kinetics set the stage for a detailed exploration of metabolism and its regulation. The laboratory component of this course involves a semester-long integrated project that requires independent student work. This project incorporates many different types of instrumentation, including low pressure chromatography, electrophoresis, UV-Visible spectroscopy, electrochemistry, and ultrafiltration. Three lecture hours plus one laboratory lecture hour per week. Significant time working independently in the laboratory is required.

Prerequisite: CHM 220 or CHM252 with a grade of C- or higher; BIO111 is strongly recommended. Junior or senior standing is required.

# Academic Programs

## **BIO460**

### **Biochemistry II**

Semester: On Demand. Semester Hours: 3.

An introduction to the chemistry and structure of nucleotides and nucleic acids is followed by a detailed study of DNA replication and repair, RNA transcription and processing, protein synthesis, and the regulation of these processes. Bioethics, an important and interesting topic, is covered as an extension to the scientific content. This course covers topics in more depth and with a different emphasis than genetics.

Prerequisite: CHM 220 or CHM252 and BIO/CHM452 or BIO203

## **BIO483**

### **Dissection**

Semester: Summer, May Term. Semester Hours: 2-3.

Students begin to learn how to dissect a human cadaver. Each student chooses or is assigned to a region. By permission of the instructor only.

Prerequisite: BIO322

## **BIO490**

### **Seminar**

Semester: Spring. Semester Hours: 1.

Selected topics in biology are explored.

## **BIO499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## **Business Administration & Accountancy**

*Anthony R. Piltz, Professor*

*Scott Severance, Professor*

*James Smith, Professor*

*Ann Adair, Assistant Professor*

*Karen Beiser, Assistant Professor*

*Kate Erin, Assistant Professor*

*Clete Knaub, Assistant Professor*

*Rockland J. Tollefson, Visiting Assistant Professor*

The objective of the business administration program is to provide graduates with the skills necessary for successful careers in business. To this end, several degree options are available, all of which are built on a traditional liberal arts foundation. Students may explore interests in business management and accounting. These options are designed to provide not only a strong business background, but also basic foundational skills. In combination with the liberal arts core, the major provides students with the opportunity to develop communication and teamwork skills. Graduates should also be prepared to be effective problem solvers, ready to face the challenges of an ever-changing business environment.

An important part of the major for many students is the opportunity to apply what they have learned through an internship experience. As a part of the major, students work in organizations

and earn credit for the experience. The internship requirement provides students with valuable, realworld, practical experiences that are helpful in finding and performing well in later employment. Another hands-on learning opportunity is available through an investment course in which the students determine how to invest \$100,000 of the Anderson Special Endowment.

### **Major in Business Management**

The following classes are required:

BSA201 Principles of Accounting I

BSA202 Principles of Accounting II

BSA311 Principles of Finance

BSA343 Principles of Marketing

BSA450 Internships

ECO201 Principles of Macroeconomics

ECO202 Principles of Microeconomics

ENG325 Professional Writing

MAT210 Probability and Statistics

Choose one of the following:

BSA321 Principles of Management

BSA422 Production and Operations Management

Nine semester hours of upper division BSA electives required.

### **Major in Managerial Accounting**

The following are required courses:

BSA201 Principles of Accounting I

BSA202 Principles of Accounting II

BSA311 Principles of Finance

BSA320 Management Information Systems

BSA321 Principles of Management

BSA324 Taxation for Managers

BSA351 Financial Reporting I

BSA352 Financial Reporting II

BSA371 Managerial Accounting

BSA422 Production and Operations Management

BSA450 Internship

ECO201 Principles of Macroeconomics

ECO202 Principles of Microeconomics

MAT210 Probability and Statistics

### **Minor in Business Management**

The following are required:

BSA201 Principles of Accounting I

BSA202 Principles of Accounting II

BSA321 Principles of Management

ECO201 Principles of Macroeconomics

MAT210 Probability and Statistics

Choose one elective from the following:

AVS405 Air Transportation Management

BSA311 Principles of Finance

BSA315 Principles of International Business

BSA318 Entrepreneurship

BSA331 Business Law

BSA343 Principles of Marketing

BSA347 Principles of Investing

BSA361 Retailing

BSA371 Managerial Accounting

BSA412 Business Ethics

# Academic Programs

BSA422 Production and Operations Management  
COM306 Organizational Communication  
ECO301 Money and Banking  
ECO345 Intermediate Microeconomics  
ECO346 Intermediate Macroeconomics

## Minor in Accounting

The following classes are required:

BSA201 Principles of Accounting I  
BSA202 Principles of Accounting II  
BSA324 Taxation for Managers  
BSA351 Financial Reporting I  
BSA352 Financial Reporting II  
BSA371 Managerial Accounting

## Minor in Economics

The following classes are required:

ECO201 Principles of Macroeconomics  
ECO202 Principles of Microeconomics  
ECO345 Intermediate Microeconomics  
ECO346 Intermediate Macroeconomics  
ECO402 Development of Economic Ideas

Choose one of the following:

ECO301 Money and Banking  
ECO305 American Economic History  
ECO354 Environmental Economics  
ECO401 International Trade

## Business Administration & Accountancy courses

### BSA101

#### Introduction to Business

Semester: Fall. Semester Hours: 3.

A beginning business course designed to introduce students to the areas of business study: historical foundations of America's free enterprise system, ethics and social responsibility in the business setting, entrepreneurship, the legal structures of business, marketing, and general management.

### BSA201

#### Principles of Accounting I

Semester: Fall and Spring. Semester Hours: 3.

A course designed to develop an understanding of the uses and limitations of accounting for economic measurement in decision-making. This course includes basic transactions, adjusting entries, preparation of worksheets and financial statements, receivables, inventory, fixed assets, and payroll.

### BSA202

#### Principles of Accounting II

Semester: Fall and Spring. Semester Hours: 3.

A continuation of BSA201, which includes long-term liabilities, partnerships, corporate accounting, statement of cash flow, basic financial statement analysis, and the use of accounting data in decision-making.

Prerequisite: BSA201

### BSA291

#### Field Practicum

Semester: On Demand. Semester Hours: 1-3.

This course provides practical experience in an organization for students interested in exploring career opportunities. The course does not satisfy the experiential learning requirement, nor does it count toward the major.

Prerequisite: permission of professor

### BSA311

#### Principles of Finance

Semester: Fall. Semester Hours: 3.

Students are introduced to the principles of business finance. Topics covered include financial analysis and planning, working capital management, the time value of money, and capital budgeting.

Prerequisite: ECO201, ECO202, BSA201, and BSA202

### BSA313

#### Students in Free Enterprise

Semester: Fall and Spring. Semester Hours: 3.

Students will develop skills in leadership, communication, and teamwork through learning and practicing the principles of free enterprise. Students select, plan, and implement realworld projects and compete annually at the regional SIFE competition. This course can be taken a maximum of three times, but only three credits may count toward the major.

### BSA315

#### Principles of International Business

Semester: Spring. Semester Hours: 3.

Introduction to the principles of international business with an emphasis on the influence of culture, rules and regulations, language, use of modern technology in the management of international firms, international finance, and monetary problems. Case studies show how major corporations have been organized in foreign markets. The roles of the IMF/World Bank, WTO, and other international agencies are discussed. Problems relating to globalization are stressed. Class participation and research of important roles and problems facing international corporations in the world's markets are an important part of this course.

Prerequisite: BSA201, BSA202, ECO201, ECO202; and junior standing.

### BSA318

#### Entrepreneurship

Semester: Fall. Semester Hours: 3.

Students will learn the characteristics of successful entrepreneurs, how to seek and evaluate opportunities for new ventures, how to prepare a complete business plan, and how to plan strategies and gather resources to create business opportunities.

### BSA320

#### Management Information Systems

Semester: Spring. Semester Hours: 3.

Students study information technology and its relationship to the business world. Designed to provide business students with general insights into information technology beyond the introductory level. This course is often required as a prerequisite for master's level business programs.



# Academic Programs

## **BSA321**

### **Principles of Management**

Semester: Fall and Spring. Semester Hours: 3.

Students examine the management functions and basic concepts and principles of management, including planning, organization, coordination, control, job design, and human resource management. Topics in human resource management include recruitment, selection, administration of personnel policies, and dismissals. This course is often required as a prerequisite for master's level business programs.

Prerequisite: junior or senior standing

## **BSA324**

### **Taxation for Managers**

Semester: Spring. Semester Hours: 3.

This course provides an analysis of the effects of tax law upon business transactions and related decision-making. Emphasis is placed on tax planning and tax minimization strategies.

Prerequisite: BSA202

## **BSA331**

### **Business Law**

Semester: Fall. Semester Hours: 3.

A course that explores the legal principles relating to business transactions: contracts, sales, commercial paper, intellectual property, and e-commerce. A study of the legal environment of business is emphasized. This course is often required as a prerequisite for master's level business programs.

## **BSA336**

### **Human Resource Management**

Semester: Spring. Semester Hours: 3.

Introduction to the Human Resource functions of workforce planning, legal requirements, work design, recruiting, selection, training and development, performance management, labor and employee relations.

## **BSA343**

### **Principles of Marketing**

Semester: Fall and Spring. Semester Hours: 3.

This course studies the marketing process from product development through consumer purchase. Includes examination of consumer buying behavior, marketing channels, physical distribution, pricing policies and promotion along with their role in the marketing process.

Prerequisite: junior or senior standing

## **BSA347**

### **Principles of Investing**

Semester: Spring. Semester Hours: 3.

This course explores those financial institutions that serve our free market society. Along the way, students will learn about common stocks and bonds and how to analyze those instruments. Students will be exposed to "contrary thinking" and will be encouraged to think for themselves. All of these issues will be interwoven with logical lessons about life and the pursuit of high ethical standards.

## **BSA351**

### **Financial Reporting I**

Semester: Fall. Semester Hours: 3.

A course which covers proper income statement and balance sheet presentation in accordance with current professional pronouncements. Other topics included are current value concepts, inventory, cash and receivables, plant assets, and intangible assets.

Prerequisite: BSA202

## **BSA352**

### **Financial Reporting II**

Semester: Spring. Semester Hours: 3.

This course, a continuation of BSA351, considers proper accounting for current and long-term liabilities, investments, pensions, and leases. Various aspects of stockholders' equity and the analysis of financial statements are also included.

Prerequisite: BSA351

## **BSA356**

### **Economic Decision Making**

Semester: Fall and Spring. Semester Hours: 3.

This course provides an introduction to the principles of sound economic and financial decision making both for organizations and for individuals. Students also become familiar with the foundational principles of management, planning, and performance assessment. This course does not count toward a major or minor in business management or accounting.

## **BSA361**

### **Retailing**

Semester: Fall. Semester Hours: 3.

This course focuses on the study of retail institutions, basic principles of retail merchandising, buying and selling products, the importance of store location and layout, and the principles of store and personnel management.

Prerequisite: junior or senior standing

## **BSA362**

### **Professional Sales**

Semester: Fall. Semester Hours: 3.

This course teaches the basic concepts required to become successful in the field of sales, focusing primarily on business-to-business selling. It includes such topics as understanding the sales cycle, how to make successful sales presentations, understanding the importance of relationships in the sales process, handling objections, and how to close.

Prerequisite: junior or senior level

## **BSA371**

### **Managerial Accounting**

Semester: Fall. Semester Hours: 3.

Students examine how managers use accounting information and how that information should be gathered and provided. Topics include the measurement and use of cost information, cost control, budgeting, performance appraisal, and decision-making using accounting information.

Prerequisite: BSA202 and ECO202

# Academic Programs

## **BSA380**

### **Doing Business In and With China**

Semester: Fall. Semester Hours: 3.

This course and trip will provide students with an opportunity to study and learn about dynamics of a rising economic system. A portion of the course will consist of preparation time during the fall semester, and the class will culminate in a trip to China in December 2011. Class members will study and observe the Chinese economy as well as its society, business, culture, and people and will understand opportunities, challenges, and problems that exist in China today, especially China as new member of World Trade Organization (WTO). Students will have opportunities to communicate and exchange ideas with Chinese business students and business professionals. Furthermore, an opportunity will be created for students to visit Chinese organizations and to discuss opportunities for partnerships and joint ventures. Of course, students will also visit historical and cultural sites such as The Great Wall and Forbidden City. The group will spend time in Beijing and Shanghai and have the opportunity to acquaint themselves with Chinese culture and life.

## **BSA405**

### **Air Transportation Management**

Semester: Fall. Semester Hours: 3.

This course provides a comprehensive experience for the aviation or business student by examining the air transportation industry. Areas of concentration: airline operation, maintenance, marketing, and economic factors affecting the industry. The class uses a simulation program where students create an airline and then compete with other students.

Prerequisite: junior or senior standing

## **BSA412**

### **Business Ethics**

Semester: Fall. Semester Hours: 3.

A study of the ethical problems that evolve in the modern business world, including a brief history of ethics and the practical ethical problems associated with running a business. Knowledge of ethical concepts as they apply to business management is explored through case studies and student class presentations. Emphasis is on the role of management as it affects stockholders, employees, customers, and competitors. Issues such as product safety, plant closures, advertising, doing business in other countries, and the overall role of business and society are discussed.

Prerequisite: junior or senior standing

## **BSA421**

### **Strategic Management**

Semester: Spring. Semester Hours: 3.

The primary goal of this course is to prepare students to think like general managers. Through discussions, supplementary readings and case studies, we will explore the strategies that cause some businesses to fail and others to succeed. This course provides a capstone experience for the business management major.

Prerequisite: senior standing

## **BSA422**

### **Production and Operations Management**

Semester: Spring. Semester Hours: 3.

An introduction to various aspects of production, resource, and operations management, which focuses on production method-

ologies, scheduling, inventory control, quality control, and project management. Performance evaluation and resource planning are also emphasized. This course is often required as a prerequisite for Masters-level business programs.

Prerequisite: BSA202, ECO202

## **BSA425**

### **Small Business Operations**

Semester: Spring. Semester Hours: 3.

This course focuses on how owners and managers grow companies in a professional manner while maintaining the entrepreneurial spirit. Students draw from varied disciplines to create and understand strategies for building and growing a successful venture.

Prerequisite: junior or senior standing

## **BSA450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

Guided work experience and study of a professional nature in an established business, government agency, or other institution. Contract is required. A minimum of three semester hours is required, but no more than three semester hours will count toward the major.

Prerequisite: junior or senior standing and consent of the business faculty

## **BSA455**

### **Topics in Leadership**

Semester: Fall and Spring. Semester Hours: 1.

This course is designed to expose students to a variety of leadership styles and traits through the use of guest speakers. Students will have the opportunity to gain insight into various careers; insight that goes beyond typical classroom exploration. Furthermore, students will have the opportunity to practice critical analysis skills through a variety of case studies.

Prerequisite: Senior standing or permission of instructor

## **BSA490**

### **Seminar**

Semester: On Demand. Semester Hours: 1-3.

Selected topics in business are explored.

## **BSA499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## **ECO201**

### **Principles of Macroeconomics**

Semester: Fall and Spring. Semester Hours: 3.

This course is the study of aggregate economic problems, including an introduction to the economics of full employment, economic growth, and price stability.

# Academic Programs

## **ECO202**

### **Principles of Microeconomics**

Semester: Fall and Spring. Semester Hours: 3.

Students study individual economic problems. This course offers an introduction to production and exchange, pricing policies, and resource allocation under alternative competitive situations.

## **ECO301**

### **Money and Banking**

Semester: Fall and Spring. Semester Hours: 3.

This course provides a critical analysis of the theoretical and practical operations of modern financial intermediaries and their relation to the Federal Reserve Bank and international money markets.

Prerequisite: ECO201

## **ECO305**

### **American Economic History**

Semester: On Demand. Semester Hours: 3.

Students explore a history of the American economy from colonial to modern times with emphasis on industrial growth, government policy, and agriculture.

## **ECO345**

### **Intermediate Microeconomics**

Semester: Fall, Alternate Years. Semester Hours: 3.

Students explore a theoretical study of industry, business, and household decision-making in the context of perfect and imperfect competition. The theory of production, exchange, and distribution under static and dynamic conditions will be examined.

Prerequisite: ECO202

## **ECO346**

### **Intermediate Macroeconomics**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course examines an analysis of Keynesian and post-Keynesian economic theories of national income, employment, and growth.

Prerequisite: ECO201

## **ECO354**

### **Environmental Economics**

Semester: Spring, Alternate Years. Semester Hours: 3.

Students examine the application of microeconomics to problems of the environment. This course is offered both for the major and for those interested in environmental problems.

Prerequisite: ECO202

## **ECO401**

### **International Trade**

Semester: Spring, Alternate Years. Semester Hours: 3.

The structure of world trade, the effect of international trade upon national income, exchange rates, problems of foreign aid and investment, and industrialization of underdeveloped countries.

Prerequisite: ECO201 and ECO202

## **ECO402**

### **Development of Economic Ideas**

Semester: Fall, Alternate Years. Semester Hours: 3.

Historic development of economic theory. Emphasis is analytical; consideration is given to institutional and philosophical backgrounds.

## **ECO450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. The internship should relate to the student's major or minor area of study. Contract is required.

Prerequisite: junior or senior standing

## **ECO490**

### **Seminar**

Semester: On Demand. Semester Hours: 1-3.

Selected topics in economics are explored.

## **ECO499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## **Chemistry**

*John Barbaro, Professor*

*Cristi H. Hunnes, Professor*

*Gavin Kirton, Associate Professor*

Chemistry is the central science and an important component of a liberal arts education. The program emphasizes a molecular view of matter and reactions, a view that combines the intrigue of theories and the power of practical applications. Our own bodies, the clothes we wear, the medicines we take, the food we eat, and the fuel we pump into our vehicles - all are various combinations of incredibly tiny particles called molecules, that are themselves composed of atoms. The knowledge of substances and chemical reactions is essential to the practice of the other physical and health sciences. Our program teaches the fundamentals of general chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry with a consideration of the other sciences and applications to societal issues and everyday life. In addition, our students develop critical thinking skills and problem-solving skills, both desirable attributes for graduates.

Chemistry is an experimental science, and laboratory work is a key component to many of the courses in our program. Students are trained to propose hypotheses, test them qualitatively and quantitatively by experiments, and form conclusions. In addition to learning the classical laboratory techniques, our students also obtain hands-on experience in operating a variety of modern chemical instrumentation including the gas chromatograph and the nuclear magnetic resonance spectrometer. Students are

# Academic Programs

also encouraged to participate in research projects within the department.

The chemistry program prepares students for graduate study in chemistry and for acceptance into graduate programs at medical, veterinary, pharmacy, physical therapy, or law schools. The program also prepares graduates for direct entry into several chemistry-related careers. Graduates of our chemistry program have excelled in graduate and professional schools and in their careers.

## Major in Chemistry

A minimum of 37 semester hours in chemistry including

CHM101	General Chemistry I
CHM102	General Chemistry II
CHM251	Organic Chemistry I
CHM252	Organic Chemistry II
CHM336	Instrumental Analysis
CHM338	Chemical Equilibrium & Analysis
CHM401	Chemical Thermodynamics
CHM452	Biochemistry I

In addition:

IDS243	Scientific Writing and Analysis
MAT175	Calculus I
MAT176	Calculus II
PHS201	General Physics I
PHS202	General Physics II

All electives must be 200-level and higher chemistry courses. Internship credits do not count towards the 37 chemistry credits required in the major.

## Minor in Chemistry

A minimum of 24 semester hours in chemistry including:

CHM101	General Chemistry I
CHM102	General Chemistry II
CHM251	Organic Chemistry I

Choose one of the following:

CHM336	Instrumental Analysis
CHM338	Chemical Equilibrium & Analysis

All electives must be 200-level and higher chemistry courses. Internship credits do not count towards the 24 chemistry credits required in the minor.

## Major in Science Broadfield Education Chemistry

This major serves those who desire to teach the several sciences necessary in American schools. In addition to the science courses listed below, students must complete the professional education program for secondary teaching as described in the "education" section of the catalog.

Required are the following courses:

Chemistry:	A total of 20 hours in chemistry courses including
CHM101	General Chemistry I
CHM102	General Chemistry II
CHM251	Organic Chemistry I

Choose two of the following:

CHM252	Organic Chemistry II
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CHM336	Instrumental Analysis
CHM338	Chemical Equilibrium & Analysis
CHM340	Environmental Chemistry
CHM401	Chemical Thermodynamics

Mathematics:

MAT175	Calculus I
MAT176	Calculus II
MAT210	Probability and Statistics

Biology:

BIO120	Principles of Biology
BIO203	Genetics
BIO306	Evolution

Physics:

PHS201	General Physics I
PHS202	General Physics II
PHS225	Modern Physics

Geology:

GEO101	Fundamentals of Geology, Option I
GEO104	Fundamentals of Geology, Laboratory

Environmental Science:

ESC105	Environmental Science
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Also Required:

IDS422	Methods and Materials: Teaching Science in the Secondary School.
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## Chemistry courses

### CHM100

#### Chemistry of Everyday Life

Semester: Spring, Even Years. Semester Hours: 4.

An introductory course for students interested in learning about the major role that chemistry plays in our modern society and in our daily lives. Emphasis will be on how chemical principles relate to topics such as diet and nutrition, food additives, pharmaceutical compounds, household chemicals, natural and synthetic fibers, pesticides, batteries, and alternative energy sources. This course is a lab science elective for non-science majors but does not count as credit toward a chemistry major or minor. A previous background in science or college-level mathematics is not required for enrollment. Three hours of lecture and one two-hour laboratory session per week.

### CHM101

#### General Chemistry I

Semester: Fall. Semester Hours: 4.

This course introduces students to the science of chemistry. The concepts of atoms, molecules, bonding, and energy successfully explain the properties of matter and how reactions happen. Goals of this course include introducing students to representative materials and reactions, to important models and theories of the science, and to the symbols and language of chemists. The laboratory will involve observations of elements, compounds and their reactions (including synthesis), and quantitative measurements of properties or amounts of matter. Three hours of lecture, one two-hour laboratory session, and one hour of recitation per week.

# Academic Programs

Prerequisite: MAT100 or higher mathematics course or placement into MAT110 or higher mathematics course

## **CHM102**

### **General Chemistry II**

Semester: Spring. Semester Hours: 4.

This course will further develop the principles presented in CHM101 with emphasis on the following core concepts: chemical kinetics, chemical equilibria, solution and acidbase chemistry, thermodynamics of reactions, and electrochemistry. Examples used in this course will point to the various branches of chemical studies (organic, physical, biological, inorganic, analytical, geological, materials, and nuclear). The knowledge and skills gained over the two semesters will be applied to the analysis of a contemporary topic or issue in chemistry. The laboratory experiments are designed to explore chemical principles and to expose students to more advanced chemical instrumentation in the department. Three hours of lecture and one two-hour laboratory session per week.

Prerequisite: CHM101 with a grade of C- or higher

## **CHM105**

### **Chemical Magic**

Semester: Fall. Semester Hours: 1-2.

This course will involve the student in chemistry demonstrations and chemistry magic shows to the community and to students in the CHM 101 lectures. Students will not only learn the “secrets” behind visually spectacular reactions, but they will also learn aspects of chemical preparation, presentation of chemistry to the general public, safe handling of chemicals, and proper clean-up after the show. Much of this course is dedicated to selecting, testing and development of chemical demonstrations in the laboratory. Students taking this course for 2 semester hours will be required to participate in off-campus chemical magic shows. One one-hour laboratory session per week.

Prerequisite: CHM102 with a grade of C- or higher

## **CHM123**

### **Introduction to Chemistry Research I**

Semester: Fall. Semester Hours: 1.

This course is a laboratory-based introduction to the common techniques of research in the chemical sciences. Students will learn about safety, chemical hygiene, laboratory organization, solution and sample preparation, storage and labeling of chemical bottles, separation and purification methods, use of equipment, and about keeping records in a notebook. In addition, an introduction to the use of handbooks, databases, and common software including structure-drawing programs will be presented. The student will also begin selecting a research project with a chosen faculty member of the chemistry department. One two-hour laboratory session per week.

Prerequisite: CHM101 with a grade of C- or higher, and students must apply for acceptance to the course

## **CHM220**

### **Fundamental Organic Chemistry**

Semester: Fall. Semester Hours: 4.

This course is a one-semester introduction to carbon-containing compounds including their structure, bonding, properties, and reactivity. The different functional groups are introduced, including the key reactions and mechanisms of these groups. This course is designed to serve as a prerequisite for Biochemistry.

Four lecture hours per week. This course will not count as an elective for the chemistry major or minor.

Prerequisite: CHM 102 with a grade of C- or higher

## **CHM223**

### **Introduction to Chemistry Research II**

Semester: Fall. Semester Hours: 2.

This course will further develop laboratory, experimental, instrumental, and computational techniques from Introduction to Research I. The use and capabilities of selected instruments in the department will be explored according to the interests and projects of the students. Students will begin working on research with close supervision by a faculty mentor. In addition, students will participate in a weekly discussion to learn how to read, analyze and present articles from scientific journals. One one-hour lecture/discussion and one two-hour laboratory session per week.

Prerequisite: CHM123

## **CHM224**

### **Introduction to Chemistry Research III**

Semester: Spring. Semester Hours: 2.

This course is designed to prepare students for independent research, so that less immediate supervision by their faculty mentor is required. They will continue working on research with supervision by a faculty mentor. Students in this course will also learn about research proposals and funding agencies. They will use their background and planning from Introduction to Research I and II to develop and present their proposal of a research project, in consultation with their individual faculty mentor. Students will formally present preliminary results of their research to faculty and students in a seminar or poster presentation. In addition, students in this course will be expected to mentor students in Introduction to Research I. One one-hour lecture and one two-hour laboratory session per week.

Prerequisite: CHM223

## **CHM251**

### **Organic Chemistry I**

Semester: Fall. Semester Hours: 4.

An introduction to the chemistry of carbon-containing compounds, concentrating on the structures, properties, and reactions of some of the important families of organic compounds. Considerable emphasis is placed on reaction mechanisms and stereochemistry. The laboratory experiments introduce techniques for the isolation and preparation of compounds. Three hours of lecture and one three-hour laboratory session per week.

Prerequisite: CHM102 with a grade of C- or higher

## **CHM252**

### **Organic Chemistry II**

Semester: Spring. Semester Hours: 4.

This course, a continuation of Organic Chemistry I, concentrates on the chemistry of additional important families of organic compounds, emphasizing reaction mechanisms, synthesis, stereochemistry, and spectroscopy. The laboratory experiments include the synthesis and analysis of compounds with biological and industrial importance and qualitative analysis.

Prerequisite: CHM251 with a grade of C- or higher. CHM220 will not be accepted as a prerequisite for this course.

# Academic Programs

## CHM260

### History of Chemistry: Chemical Connections

Semester: Fall, Even Years. Semester Hours: 3.

Considering history as a web of related events rather than as a series of unrelated time-lines allows interesting connections between seemingly unrelated historical events. This course looks at how seemingly unrelated events in history are connected to various chemical discoveries, and also how these chemical discoveries led to unforeseen future results. Although chemistry will be the recurring thread throughout the connections made in the course, the discussions of chemical concepts and discoveries will be at a level easily understandable by students with just a basic background in chemistry and science.

## CHM336

### Instrumental Analysis

Semester: Fall, Even Years. Semester Hours: 4.

A course to introduce the student to the theory and practice of using advanced chemical instruments available in the department, including UV-visible spectrophotometers, atomic absorption (AA) spectrometer, infrared (FTIR) spectrometer, nuclear magnetic resonance (NMR) spectrometer, gas chromatograph (GC), liquid chromatograph (LC), ion-selective electrodes (ISE), and cyclic voltammetry (CV). Basic theory of each instrument and interpretation of the output will be presented. Students will also learn sample preparation and loading for each instrument, as well as have the opportunity to explore the effects of changing operating conditions. Three hours of lecture and one three-hour laboratory session per week.

Prerequisite: CHM252 with a grade of C- or higher. CHM220 will not be accepted as a prerequisite for this course.

## CHM338

### Chemical Equilibrium & Analysis

Semester: Spring, Odd Years. Semester Hours: 4.

The classical methods of chemical analysis of samples rely on stoichiometry and various classes of chemical reactions introduced in CHM101 and CHM102. In particular, the concept of chemical equilibrium and Le Châtelier's principle will be further explored in this course as it is central to chemical analyses, both classical and instrumental. The lectures will also include chemical calculations, statistical testing, and error analysis of experimental data. The principles of precipitation, acid-base neutralization, complex-formation, and redox reactions presented in the lecture will be applied in the laboratory to titrimetric, gravimetric, and potentiometric analyses of samples in the laboratory. The laboratory will also emphasize methods to enable accurate and precise determinations of composition. Three hours of lecture and one three-hour laboratory session per week.

Prerequisite: CHM102 with a grade of C- or higher

## CHM340

### Environmental Chemistry

Semester: Spring, Odd Years. Semester Hours: 4.

An upper-level science elective for science students interested in seeing the fascinating role that chemistry plays in many current challenges to our environment (air, water, and soil) and to our energy needs. The chemistry of natural processes will be discussed, along with causes of, and potential solutions to, various environmental problems. The laboratory portion of this course includes analytical techniques, separations, chemical synthesis,

and modeling. Three hours of lecture plus one three-hour laboratory session per week.

Prerequisite: CHM252 with a grade of C- or higher; completion or concurrent enrollment in CHM338 is advised. CHM220 will not be accepted as a prerequisite for this course.

## CHM401

### Chemical Thermodynamics

Semester: Fall, Odd Years. Semester Hours: 4.

The relationship between heat and work (thermodynamics) is enormously powerful for predicting the behavior of material systems in chemistry and biology. Students will explore the properties of matter (gases, solids, liquids, solutions, and mixtures) using classical thermodynamics enriched with the molecular insight from chemistry. State functions such as enthalpy, entropy, and Gibbs free energy will be explored and used for predicting the spontaneous direction of physical transformations and chemical reactions. Students will also explore a complementary view of chemistry from kinetics, or the rate at which changes happen. The use of rate laws to discern the mechanism of reactions will be explained, as well as the importance of catalysis to life and industry. Laboratory experiments will emphasize the measurement of physical properties of materials, as well as experimental design and development towards this purpose. Three lectures and one 3-hour lab session per week.

Prerequisite: CHM252 with a grade of C- or higher. CHM220 will not be accepted as a prerequisite for this course.

Corequisite: PHS201

## CHM402

### Quantum Chemistry

Semester: Spring, Even Years. Semester Hours: 4.

The experimental behavior of tiny, nanoscopic objects like electrons and atoms are best explained by quantum theory developed in the early 20th century. This course will give the historical overview and an introduction to applying quantum theory to simple systems like a particle confined in a box. The use of wavefunctions, operators and Schrödinger's equation will be explained. Students will explore systems like electrons in conjugated bonds, the harmonic oscillator, the hydrogen atom, multielectron atoms, and molecules. Since spectroscopy probes the quantized energy levels in chemical species, the basics of modern molecular spectroscopy will also be discussed and will be the focus of laboratory experiments. There will also be exercises in computational modeling of molecules. Three lectures per week and one three-hour lab per week.

Prerequisite: CHM401 and PHS201, both with a grade of C- or higher; previous or concurrent enrollment in PHS202 is advised

## CHM432

### Introduction to the Pharmaceutical Sciences

Semester: Spring, Odd Years. Semester Hours: 3.

Understanding how drugs cause biochemical and physiological effects stems from an analysis of the structure of drugs and the interactions that occur at their target sites. Chemical properties such as ionization, solubility, partition coefficients, and diffusion coefficients provide a basis for understanding how drugs get from the point of administration to their targets. The chemistry of drug distribution, metabolism, elimination, and the mechanism of action of specific classes of drugs will be discussed, along with toxicology (the potential adverse effects of drugs), drug discovery, and the FDA approval process.

# Academic Programs

Prerequisite: CHM 220 or CHM252 passed with a grade of C- or higher.

## CHM443

### Organic Spectroscopic Analysis

Semester: On Demand. Semester Hours: 3.

The characterization and structure elucidation of organic compounds by spectral methods including mass spectrometry, infrared spectroscopy, ultraviolet spectroscopy, and nuclear magnetic resonance spectroscopy.

Prerequisite: CHM252 with a grade of C- or higher. CHM220 will not be accepted as a prerequisite for this course.

## CHM450

### Internship

Semester: On Demand. Semester Hours: 1-12.

A maximum of three semester hours can be counted toward the major in chemistry. This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with a chemistry advisor and the office of career services. The internship should relate to the student's major or minor area of study. Contract is required.

Prerequisite: junior or senior standing

## CHM452

### Biochemistry I

Semester: Spring. Semester Hours: 5.

Biochemistry focuses on the study of the molecules and chemical reactions of life, bringing together principles learned in biology and chemistry. After an introduction to the chemistry and structure of carbohydrates, lipids, and proteins, discussions of enzyme structure and kinetics set the stage for a detailed exploration of metabolism and its regulation. The laboratory component of this course involves a semester-long integrated project that requires independent student work. This project incorporates many different types of instrumentation, including low pressure chromatography, electrophoresis, UV-Visible spectroscopy, electrochemistry, and ultrafiltration. Three lecture hours plus one laboratory lecture hour per week. Significant time working independently in the laboratory is required.

Prerequisite: CHM220 or CHM252 with a grade of C- or higher. BIO111 is strongly recommended. Junior or senior standing is required.

## CHM460

### Biochemistry II

Semester: On Demand. Semester Hours: 3.

An introduction to the chemistry and structure of nucleotides and nucleic acids is followed by a detailed study of DNA replication and repair, RNA transcription and processing, protein synthesis, and the regulation of these processes. Bioethics, an important and interesting topic, is covered as an extension to the scientific content. This course covers topics in more depth and with a different emphasis than genetics.

Prerequisite: CHM 220 or CHM252 and BIO/CHM452 or BIO203

## CHM490

### Seminar

This course is a discussion of a specialized area in chemistry. The subject matter and requirements of the course will vary semester to semester and by instructor. Students should see the

instructor of that semester's seminar for information about the course description and the prerequisites. Students may take this course up to three times for credit; a maximum of three credit hours can count toward the major or minor.

## CHM499

### Independent Study

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater. Prerequisite: junior or senior standing

## Communication Studies

*Erin Reser, Associate Professor*

*Jolane Flanigan, Assistant Professor*

*Shelby Jo Long-Hammond, Assistant Professor*

In studying communication, students learn to express themselves, to develop critical thinking skills and to explore ethical issues. Students become articulate and intentional communicators, respecting the power of the spoken and written word. Communication Studies is a strong stand-alone major, and is also common as a double-major or minor. The skills learned when studying communication are some of those most sought after by employers. Careers available to the Communication Studies major include diverse professions such as public relations, event planning, graduate school, teaching, sales, or law, just to name a few.

### Major in Communication Studies

A minimum of 39 semester hours, including:

COM101	Interpersonal Communication
COM102	Public Speaking
COM240	Rhetoric of Western Thought
COM250	Small Group Communication
COM260	Debating Contemporary Issues
COM306	Organizational Communication
COM310	Communication Theory
COM355	Mass Media
COM402	Interviewing

Choose one rhetoric course at the 300 or 400 level, COM490, and two out of the following four: COM308, ENG325, ENG365, or any three credit COM special topics course at the 300 or 400 level. A maximum of three semester hours of internship may be applied toward the major.

### Minor in Communication Studies

A minimum of 24 semester hours, including

COM101	Interpersonal Communication
COM102	Public Speaking
COM250	Small Group Communication
COM260	Debating Contemporary Issues
COM306	Organizational Communication
COM310	Communication Theory
COM402	Interviewing

Choose one course from the following:

COM308	Intercultural Communication
COM355	Mass Media

# Academic Programs

OR

Another 300- or 400-level course, chosen in consultation with a faculty member in Communication Studies, in Theatre, English, or Communication Studies. A maximum of three semester hours of internship may be applied toward the minor.

## Communication Studies courses

### COM101

#### Interpersonal Communication

Semester: Fall. Semester Hours: 3.

This course examines how intimate, personal, and professional relationships are created and maintained. Students develop an increased awareness of and sensitivity to communication that facilitates interpersonal relationships as well as communication that creates obstacles to building relationships. Topics discussed include perception, self-concept, listening, and conflict.

### COM102

#### Public Speaking

Semester: Fall and Spring. Semester Hours: 3.

This course examines key aspects of writing and delivering public speeches. Focal topics include audience analysis, speech organization, developing supporting materials, argumentation, and delivery. By the end of the course, students will have written and delivered informative, persuasive, and ceremonial speeches.

### COM240

#### Rhetoric of Western Thought

Semester: Spring. Semester Hours: 3.

This course investigates the evolution of rhetorical theories from ancient Greece to contemporary models of communication. It focuses on the application of theories to communication events in order to explicate how communication shapes culture.

Prerequisite: COM102

### COM247

#### Communication Projects

Semester: On Demand. Semester Hours: 1.

Students pursue special research in communication studies.

Prerequisite: permission of professor

### COM250

#### Small Group Communication

Semester: Spring. Semester Hours: 3.

This course explores how and why people come together in groups, how groups develop norms for acceptable behavior, and how individuals can help groups work efficiently and effectively. Because employers seek competent communicators, this course is designed to provide students an opportunity to develop communication skills that can be applied in both personal and professional contexts.

### COM257

#### Intercollegiate Forensics

Semester: Fall and Spring. Semester Hours: 1.

This course is designed for students to prepare and engage in intercollegiate debate competition. A focus on British Parliamentary debate provides national and international opportunities for debate competition. Pass/no pass grading.

### COM260

#### Debating Contemporary Issues

Semester: Fall. Semester Hours: 3.

This course explores persuasion, reasoning and argumentation by analyzing current controversies in local, national and international politics. Students prepare their own arguments and analyze arguments in media. Students develop effective persuasive speaking and refutation skills by debating one another in class.

Prerequisite: COM102

### COM306

#### Organizational Communication

Semester: Fall. Semester Hours: 3.

This course examines how communication occurs in large cooperative networks, especially in professional work settings. It focuses on the roles leadership, management, and conflict resolution play in larger organizations. By the end of the course, students will understand how the values and cultures of any organization emerge through communication.

Prerequisite: COM102 or permission of instructor

### COM308

#### Intercultural Communication

Semester: Fall, Alternate Years. Semester Hours: 3.

As global communication and transnational movement facilitate increased cross-cultural contact, there is a need to develop an understanding of intercultural communication. To this end, this course examines the ways in which culture influences communication--and communication influences culture. Verbal and nonverbal communication will be analyzed as it conveys messages about identity, beliefs and values. Conflict is discussed as a product of cultural orientations and interpretations. By the end of this course, students will understand communication as a vital aspect of intercultural contact.

Prerequisite: COM102 or permission of instructor

### COM310

#### Communication Theory

Semester: Fall. Semester Hours: 3.

This course introduces students to the basic theories in all branches of communication studies. It explains how and why people construct meaning, how theories explain fact patterns, and what constitutes an appropriate test of a theory. By the end of the course, students will understand the integrative framework for each theory and a consciousness concerning the ethical implications therein.

Prerequisite: COM102 or permission of instructor

### COM355

#### Mass Media

Semester: Spring. Semester Hours: 3.

This course explores the social and cultural roles of media--from local newspapers to the global reach of the World Wide Web. By the end of this course, students will be able to understand and articulate the social, cultural, and economic power of media in order to better manage its influence in their lives.

Prerequisite: COM102 or permission of instructor



# Academic Programs

## COM402

### Interviewing

Semester: Spring. Semester Hours: 3.

This course prepares students to be excellent interviewers and interviewees in employment, informational, survey, and performance appraisal interviewing. Students also learn resume writing and how to write recommendations, as well as how to create and sustain supportive networks in the work-world. By the end of the course, student will be familiar with both the theoretical and practical applications of interviewing.

Prerequisite: COM102 or permission of instructor

## COM404

### Rhetoric of Protest and Dissent

Semester: Spring, Alternate Years. Semester Hours: 3.

This course examines why and how protest occurs, the challenges protesters face rhetorically, and the available options from which protesters can choose. Students will emerge with an appreciation of how difficult protest is and how important it is for a vital society.

Prerequisite: COM240; junior or senior standing

## COM447

### Communication Projects

Semester: On Demand. Semester Hours: 1.

Students pursue special research in communication studies.

Prerequisite: permission of professor

## COM450

### Internship

Semester: On Demand. Semester Hours: 1-12.

This course is a guided work experience in an established institution such as a non-profit or for-profit organization or a governmental institution. The student must arrange the internship in agreement with the instructor and with the office of career services, and the internship must be a learning experience that is connected with the professional communication degree. A contract is required. A maximum of three semester hours can be counted toward the major in communication.

Prerequisite: junior or senior standing

## COM457

### Intercollegiate Forensics

Semester: Fall and Spring. Semester Hours: 1.

This course is designed for students to prepare and engage in intercollegiate debate competition. A focus on British Parliamentary debate provides national and international opportunities for debate competition. Pass/no pass grading.

## COM490

### Seminar in Communication

Semester: Spring, Alternate Years. Semester Hours: 3.

Through writing and speaking, students in this capstone course explore why and how people create communities and what kind of communities they create. Each seminar will focus upon a special theme, such as the implications of free speech, postmodern organizational ethics, or international political communication.

Prerequisite: Senior standing

## COM499

### Independent Study

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater. Prerequisite: junior or senior standing

## Computer Science

*Andrew Wildenberg, Associate Professor*

*K. Stuart Smith, Adjunct Professor*

*Aaron Benner, Instructor*

The computer science program combines the analysis of computing systems with the art and science of creating computer software. The program emphasizes the development of software solutions and the study of the hardware and software systems that provides the execution environment for those solutions. We firmly believe that the development of software has two distinct components: creation of programs to solve problems and the subsequent translation of those programs into code using an appropriate language.

Students choosing computer science will receive education far beyond the ability to write functional programs. The program is designed to serve as a basis for obtaining employment in industry or as a foundation for graduate studies through required internships and undergraduate research opportunities.

### Major In Computer Science

A minimum of 38 semester hours in computer science is required:

Choose either:

CSC130 Fundamentals of Programming I

CSC131 Fundamentals of Programming II

OR

CSC143 Programming Foundations

Also required:

CSC214 Technology and Society

CSC251 Data Structures

CSC330 Computer Networking

CSC344 Programming in C and Assembler Language

CSC352 Programming Language Study I (Traditional Languages)

CSC353 Programming Language Study II (Web Languages)

Choose one of the following:

CSC351 Algorithms

CSC360 Programming Paradigms

Choose one of the following (CSC450 strongly preferred):

CSC450 Internship

CSC499 Independent Study

An additional 9 semester hours of elective computer science coursework is required to complete the major, of which at least 6 semester hours must be upper-division coursework.

# Academic Programs

A minimum grade of "C" is required in each of the non-elective computer science courses. Computer science prerequisite courses must have a minimum grade of "C" to continue to dependent coursework.

## Notes:

- CSC352 and CSC353 may each be taken twice and applied to the major requirements so long as each study represents a different programming language. At least one credit each of CSC352 and CSC353 are required for completion of the major.
- No more than 3 semester hours of CSC450 can be applied towards completion of the Computer Science major requirements and a "pass/fail" grade will be awarded for CSC450 after the first 3 semester hours.

## Minor in Computer Science

A minimum of 19 semester hours in computer science including

Choose either:

CSC130 Fundamentals of Programming I

CSC131 Fundamentals of Programming II

OR

CSC143 Programming Foundations

Also required:

CSC251 Data Structures

Choose two of the following:

CSC344 Programming in C and Assembler Language

CSC352 Programming Language Study I (Traditional Languages)

CSC353 Programming Language Study II (Web Languages)

6 semester hours of upper-division computer science coursework.

## Computer Science courses

### CSC130

#### Fundamentals of Programming I

Semester: Fall. Semester Hours: 4.

Students are introduced to the fundamental concepts of computer programming and the practical aspects of composing, testing, proving, and documenting computer programs. Topics covered include development of programmable processes, representation and manipulation of foundation data types, simple input/output processing, and elementary program control structures.

### CSC131

#### Fundamentals of Programming II

Semester: Spring. Semester Hours: 4.

This course builds upon the foundation established in Fundamentals of Programming I with treatments of arrays, exception handling, event models and elementary GUI frameworks. Students are introduced to basic object-oriented design patterns.

Prerequisite: CSC130

### CSC143

#### Programming Foundations

Semester: Fall. Semester Hours: 5.

This course, intended for students with significant prior programming experience, provides a foundation in object-oriented programming through an accelerated presentation, including the use of APIs, basic design patterns, and IDEs. Formal models for program development, including flowcharts, requirements models, and state models are introduced. Four hours of lecture and two hours of lab per week.

Prerequisite: permission of the department

### CSC251

#### Data Structures

Semester: Fall. Semester Hours: 3.

Data structures and their characteristic algorithms are studied including analysis of performance predictions and "Big-O" characterizations inherent to the various data organizations. Lists, stacks, queues, trees, and elementary graphs are considered. Fundamental sorting algorithms are also treated.

Prerequisite: CSC131 or CSC143

### CSC256

#### Discrete Structures and Computability

Semester: On Demand. Semester Hours: 3.

The mathematical and theoretical underpinnings of computer science will be explored. Students will be introduced to Boolean algebra and elementary logic and their application to computer implementation and algorithm development. This course explores the historical development of computer science from its roots in mathematical models including early models of computation, such as Turing machines and other finite state machines.

### CSC258

#### Topics in Computer Science

Semester: On Demand. Semester Hours: 3.

This occasional offering will study special areas of computer science not otherwise covered in the curriculum.

Prerequisite: permission of professor

### CSC309

#### Computer Organization and Architecture

Semester: On Demand, Every Third Semester. Semester Hours: 3.

Modern computers represent a powerful synergy of hardware and software, represented in deeply nested abstraction layers. In this course, students study computer architecture and organization as influenced by hardware-software interfaces. The organization of processors to support the fundamental execution cycle is explored. Additional topics include computer arithmetic, pipelines, performance factors and specialized architectures.

Prerequisite: CSC344

### CSC320

#### Numerical Methods

Semester: On Demand. Semester Hours: 3.

The study of numerical methods involves the design and use of algorithms for solving large mathematical problems with a computer. Topics include estimation of accuracy, the use of series and approximation, and numerical integration and differentiation.

Prerequisite: CSC251 and MAT176

# Academic Programs

## **CSC326**

### **Graphics**

Semester: On Demand, Every Third Semester. Semester Hours: 3.

The use of computer technology to create and display information in a visual manner is studied. Topics include display technology, graphic user interfaces (GUI), graphics algorithms, and computer-based imagery. Exercises will involve the use of current graphics software and systems.

Prerequisite: CSC251 and CSC354

## **CSC330**

### **Computer Networking**

Semester: Fall. Semester Hours: 3.

The organization of computer systems into networks and the theory of computer communication across those networks will be studied. Communications protocols from design to implementation perspectives will be considered with a focus on current technology and software. Students will construct and test software implementations of the technologies as they are discussed.

Prerequisite: CSC251; CSC344 is recommended.

## **CSC333**

### **Network Programming**

Semester: On Demand. Semester Hours: 3.

Network Programming picks up where CSC330 leaves off. The goal of the course is to provide students with an in-depth look at network application programming and the techniques and tools that are used therein. The student is assumed to have a fundamental knowledge of the protocol layering model of networking as well as an understanding of the network, transport and application layers of the Internet protocol stack. The material for the course focuses on Java's streams and IP-based protocols. The discussion is extended to include topics such as RMI, servlets, and other components from the Java API.

Prerequisite: CSC330

## **CSC335**

### **Database Systems**

Semester: On Demand. Semester Hours: 3.

This course will introduce the student to the fundamental concepts and implementation of modern database systems, including relational and object-oriented databases. Topics include entity relationship models, transaction processing, concurrency, and query processing.

Prerequisite: CSC251

## **CSC344**

### **Programming in C and Assembler Language**

Semester: Spring. Semester Hours: 4.

This course introduces two of the most fundamental languages for computer programming: assembler language, the language most closely related to the hardware of the computer; and C, the language most commonly used for operating systems and whose syntax has influenced most modern programming languages. Students will study the representation of data and programs in the processor and memory of modern computers and be led to understand how the basic operations in high-level languages are implemented. Topics will include data structure definition and reference mechanisms, and using libraries for I/O and operating

system interfaces. This course has a substantial programming component.

Prerequisite: CSC131 or CSC143

## **CSC345**

### **Advanced Algorithms and Parallel Processing**

Semester: On Demand. Semester Hours: 3.

Most programming problems encountered by undergraduate computer science students are solvable using straightforward approaches. There are a number of important and challenging problems whose efficient solutions demand more sophisticated techniques. This course presents an organized study of major algorithmic strategies (Divide and Conquer, Dynamic Programming, Backtracking, Greedy, Branch and Bound) and introduces students to advanced topics including computability, fixed-point algorithms, and NP-complete problems. Algorithms for parallel processing are explored through the use of a Beowulf processor cluster as a target platform for programming exercises.

Prerequisite: CSC251, CSC344, and senior standing

## **CSC351**

### **Algorithms**

Semester: On Demand. Semester Hours: 3.

This course of study extends the study of algorithms that began in CSC251, focusing on algorithmic paradigms (backtracking, greedy, dynamic programming, branch and bound, etc.) and patterns that have general application in both theoretical and practical computer science. Solutions for classical optimization problems, P and NP characterization, and shortest path algorithms will be considered.

Prerequisite: MAT110 and CSC251

## **CSC352**

### **Programming Language Study I (Traditional Languages)**

Semester: Fall. Semester Hours: 1.

This course provides instruction and experience using modern computer programming languages. Students are required to implement basic and intermediate programming tasks in order to explore the syntax, semantics, and dominant paradigm of the topic language. Students cannot apply more than two semester hours of CSC352 toward completion of the CS major requirements.

Prerequisite: CSC131 or CSC143

## **CSC353**

### **Programming Language Study II (Web Languages)**

Semester: Spring. Semester Hours: 1.

This course provides instruction and experience using modern computer programming languages. Students are required to implement basic and intermediate programming tasks in order to explore the syntax, semantics, and dominant paradigm of the topic language. Students cannot apply more than two semester hours of CSC353 toward completion of the CS major requirements.

Prerequisite: CSC131 or CSC143

## **CSC360**

### **Programming Paradigms**

Semester: Fall. Semester Hours: 3.

The history, development and evolution of programming languages are studied in this course, which deals with the programming paradigms utilized by modern languages. Experience with

# Academic Programs

alternative paradigms is gained through programming exercises. Related topics covered in this course include regular expressions, interpreters and compilers, and tools for language processing.

Prerequisite: CSC131, CSC143, or CSC251

## CSC376

### Object-Oriented Analysis and Design

Semester: On Demand. Semester Hours: 3.

This course will introduce the student to techniques for performing requirements analysis and design using object-oriented approaches. Topics include the role of modeling, creation of use cases, risk analysis, the "unified software development process," and iterative design.

Prerequisite: permission of the professor

## CSC410

### Operating Systems

Semester: On Demand. Semester Hours: 3.

This course will introduce the student to the principles, mechanisms, and algorithms underlying modern operating systems. Topics will include management of memory, I/O and processor resources, elementary queuing theory, and inter-process communication.

Prerequisite: CSC344

## CSC430

### Advanced Networking and Security

Semester: On Demand. Semester Hours: 3.

Participants will explore the techniques and study issues relevant to maintaining and securing computers in a modern networked environment. The course will focus on techniques and methods used to compromise networked computer systems and the methods that are used to counter these attacks. Topics covered will include human and automated intrusion, viruses, and social engineering.

Prerequisite: CSC330

## CSC433

### Compiler Construction

Semester: On Demand. Semester Hours: 4.

This course considers algorithms and data structures used in translation of high-level languages to executable machine language. Topics include general organization, lexicographic analysis, management of name spaces and storage, error detection and recovery, code generation and optimization. This course requires significant programming. Evaluation is heavily dependent upon the successful development of substantial portions of a compiler. Students should expect to spend a minimum of 10 hours weekly on this course.

Prerequisite: CSC344, CSC360; senior standing is recommended

## CSC450

### Internship

Semester: Fall, Spring, and Summer. Semester Hours: 1-12.

This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. The internship should relate to the student's major or minor area of study. A maximum of three semester hours will be counted toward a computer science major and a "pass/fail" grade will be

awarded for CSC450 after the first three semester hours. Contract is required.

Prerequisite: junior or senior standing or permission of the department

## CSC490

### Computer Science Research Seminar

Semester: On Demand. Semester Hours: 1, 2, or 3.

Students participate in ongoing research and development projects. Areas of focus vary as projects are undertaken and evolve. Participants are expected to be active contributors to research and development teams operating under the guidance of faculty sponsors, and are required to make both formal and information presentations based on team progress, and participate in critical project reviews. Students should expect to contribute at least nine hours each week toward team efforts.

Prerequisite: junior standing. (Note: CSC490 is required to fulfill the requirements of the major in computer science; CSC490 may be taken a second time to fulfill an upper-division elective in the major)

## CSC499

### Independent Study

Semester: On Demand. Semester Hours: 1-3.

Under the guidance of a faculty sponsor, students may study facets of computer science not available for study through offered CS courses. Independent study is an ideal vehicle for students wishing to explore interdisciplinary applications of computer-related technology. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## Economics

*Anthony R. Piltz, Professor*

*Scott Severance, Professor*

*James Smith, Professor*

*Ann Adair, Assistant Professor*

*Karen Beiser, Assistant Professor*

*Clete Knaub, Assistant Professor*

*Rockland John Tollefson, Visiting Assistant Professor*

For course listings, see the "Business Administration and Accountancy" section of this catalog.

## Education

*Barb Vail, Director of Education, Professor*

*Shelley M. Ellis, Professor*

*Jo Swain, Associate Professor*

*Mark Damico, Assistant Professor*

*Stevie Schmitz, Director of M.Ed. and Distance Education*

To address the educational needs of America's diverse student population, the professional preparation program in teacher education at Rocky Mountain College utilizes a strong theoretical component and applies that theory to the classroom via two practica, many volunteer opportunities, and numerous in-class teaching situations. Rocky Mountain College's program also provides pre-service teachers with opportunities to explore personal and group relationships so they will have confidence in facilitating student interaction in their own future classrooms.

# Academic Programs

The goal of Rocky Mountain College's education program is to provide students with the knowledge, skills, and dispositions necessary to be successful as beginning teachers in schools today and to continue as life-long reflective professionals. To achieve this goal, Rocky Mountain College provides students with a strong liberal arts background, in-depth study in the fields in which they plan to teach, the professional knowledge and skills essential for effective teaching, and extensive school-based experience in a variety of school settings.

The teacher education program at Rocky Mountain College will enable its graduates to

- apply their knowledge of human growth, development, and learning to the individual learning styles of all students;
- demonstrate a thorough knowledge of the professional literature and the current trends, issues, research, and research methods across disciplines and in each pertinent content area;
- communicate clearly, accurately, and professionally, in speech and writing, to peers, colleagues, parents/families, community persons, and other community organizations;
- demonstrate knowledge of the legal and ethical responsibilities of educators as well as the underlying foundations and history of education in the United States;
- engage students in learning activities that promote critical as well as creative thinking;
- describe major educational aspects of the American school, including its purpose, administrative organization, financial aspects, board functions, and general operations;
- reflectively analyze their teaching and learning in order to improve throughout their careers;
- diagnose and remediate reading deficiencies in their students and confidently select age- and skill-level appropriate reading materials across the content areas;
- teach listening, speaking, reading, and writing skills appropriate to students' ability levels and content areas;
- design and organize learning environments that accommodate individual learning styles that enable students to be active, self-directed learners;
- implement classroom management strategies to create a cooperative learning environment, one that promotes students' self-esteem and helps them respect the rights, interests, heritage, and abilities of others;
- choose and create appropriate, authentic means of assessing student learning and progress;
- select and design strategies and materials for interdisciplinary teaching and learning experiences as well as for teaching discrete subject areas; and
- educate American Indian students via an exploration of unique cultures, family backgrounds and traditions, and subtle differences in values and of ways of learning, thus ensuring that American Indian students feel included in the classroom.

#### Career Paths:

Completion of the Elementary, Secondary or K-12 program provides a strong base for students who wish to go directly into teaching or who wish to pursue advanced professional training in specialized educational programs such as special education, guidance and counseling, and school administration. Completion of the Non-teaching Endorsement Education program provides a strong base for students who wish to work with children or youth in settings that do not require a teaching license.

#### Program Basics for Admittance to the Teacher Education Program

The competencies expected by the Rocky Mountain College teacher education program include

1. Communication: Communication competencies are demonstrated by such behaviors as using the appropriate syntax, inflection, and word choice in oral communication; speaking distinctly and with confidence; and using correct spelling, standard English language mechanics, and meaningful word choice in written expression. Further, communication with students and families is demonstrated by sensitivity to the situation and family circumstances of the students.
2. Intellectual ability (conceptual, integrative, and quantitative) for problem solving and effective teaching: The student must have the cognitive abilities necessary to master relevant content in subjects commonly taught in K-12 schools and pedagogical principles and their application in field settings at a level deemed appropriate by the faculty. These skills may be described as the ability to comprehend, memorize, analyze, and synthesize material. Students must be able to develop reasoning and decision-making skills appropriate to the practice of teaching.
3. Dispositions: The candidate must demonstrate the professional, behavioral, and social dispositions necessary for the effective performance of a teacher.

#### Admission to the Teacher Education Program

To be admitted to the teacher education program, students must do the following:

1. successfully complete ENG119 or an equivalent writing course, EDC202, PSY205 or PSY206, earning at least a grade of "C-" in each;
2. successfully complete the first of two required field practica (EDC291E or EDC291S);
3. receive a passing score on the education department's supervised writing examination;
4. conduct a satisfactory interview with representatives of the teacher education committee; and
5. have an overall minimum GPA of 2.75 with a minimum GPA of 2.75 in the education field and in the major courses.

Students who receive a grade lower than "C-" in any required education course, even if that grade does not result in a GPA lower than the required 2.75 GPA, must re-take that course(s). A grade of C- or better will be required for the repeated course(s).

Students admitted to the teacher education program must continue to meet minimum program standards or they may be dropped from the program. These standards include maintaining the required GPA (see #5 above) and demonstrating responsible dispositions toward learning in all college work as indicated under the "dispositions" section of the teacher education program handbook. The teacher education program handbook is on the College's website under the "academics" and then "education" links. All education students are required to adhere to the requirements and guidelines in the handbook.

#### Praxis II Exam

All students must take and pass the appropriate portions of the Praxis II exam (consult your advisor for the required portions) before or directly subsequent to the student teaching semester. This is a licensure requirement.

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## Admission to Student Teaching

To be admitted to student teaching, students must meet the following requirements:

1. admission to the teacher education program (see the teacher education program handbook for details);
2. senior standing with a minimum overall GPA of 2.75;
3. completion of all required coursework except student teaching and its related seminar; and
4. approval of the teacher education committee.

## Transfer Courses

All transfer courses used to substitute for courses required in the teacher education program must be approved by the teacher education committee. An official transcript must be sent directly to the office of student records from any previous institution(s).

## Transfer Students

Students transferring into the teacher education program must meet all Rocky Mountain College requirements for transfer students and must complete a minimum of 12 semester hours in the Rocky Mountain College teacher education program prior to student teaching;

## Students with Degrees from Other Colleges

1. must complete a minimum of 12 semester hours at Rocky Mountain College before student teaching;
2. must meet all Rocky Mountain College teacher education program requirements for student teaching; and
3. must meet all Rocky Mountain College teacher education program requirements for the teaching major and minor and be recommended by the respective department before student teaching.

## Major in Elementary Education

A major in elementary education prepares students for teaching at the elementary school level (K-8). Candidates must be admitted to the Teacher Preparation Program to pursue the Elementary Education degree.

Required courses in the elementary education program are:

ENG119 First Year Writing  
MAT103 Mathematics for Elementary school Teachers I  
MAT104 Mathematics for Elementary school Teachers II  
PSY205 Human Development I  
PSY206 Human Development II  
HST211 American History I or HST212 American History II  
EDC202 Foundations of Education  
EDC291E Field Practicum: Elementary school  
EDC302 Educational Psychology  
EDC310 Classroom Management  
EDC330 Introduction to Teaching Exceptional Learners  
EDC336 Education Technology  
EDC/ART338 Methods and Materials: Teaching Art in the Elementary School  
EDC341 Methods and Materials: Teaching Health in the Elementary School  
EDC342 Methods and Materials: Teaching Physical Education in Elementary School  
EDC/MUS344 Methods and Materials: Teaching General Music in the Elementary School  
EDC349 Methods and Materials: Teaching Mathematics in the Elementary School

EDC350 Methods and Materials: Teaching Reading and Language Arts in the Elementary School  
EDC355 Methods and Materials: Teaching Social Studies in the Elementary School  
EDC356 Methods and Materials: Teaching Science in the Elementary School  
EDC360 Children's Literature  
EDC365 Native American Education: History and Best Practices  
EDC370 Student Health and Safety  
EDC391E Field Practicum: Elementary School  
EDC402 Curriculum and Pedagogy  
EDC427 Standards, Instruction and Student Assessment  
EDC453 Student Teaching in the Elementary School  
EDC490E Seminar: Elementary Education

## Content Knowledge Assessment

The assessment for content knowledge required by the No Child Left Behind Act for elementary education majors consists of the following multiple measures:

1. Thirty credits of content coursework. A GPA of that coursework will be calculated on a 0 to 4 point scale prior to program completion. The range will be 3.00-4.00=4 points; 2.50-2.99=3 points; 2.00-2.49=1 point; below 2.00=0 points;
2. Assessment of content knowledge demonstrated during student teaching by a highly qualified teacher and a college supervisor on a scale of 0 to 3 based on demonstration of content knowledge. The following descriptors will be used: "knowledge is advanced"=3 points; "knowledge is proficient"=2 points; "knowledge is basic"=1 point; "knowledge is unacceptable"=0 points.

Score on the PRAXIS II Elementary Content Knowledge Test determined as follows: 164-200=6 points; 154-163=5 points; 139-153=3 points; 125-138=1 point; 100-124=0 points.

Rocky Mountain College's education department will use the above components to develop a Content Knowledge Score (CKS) to be calculated as follows: CKS=Content GPA points + Student Teaching Assessment points + PRAXIS points. The possible range for the CKS is 0-13 (0-11 as of 1/1/13). Students scoring lower than CKS=8 (7 as of 1/1/13), or who score zero on any of the three multiple measures, shall not be recommended for licensure.

A score of one (1) on any of the multiple measures will trigger an individualized review of the student's content knowledge and teaching skill by Rocky Mountain College's teacher education program faculty before recommending that student for licensure.

## Major in Secondary Education

A major in secondary education prepares students for teaching at the secondary school level (5-12).

Required courses in the secondary education program are:

ENG119 First Year Writing  
EDC202 Foundations of Education  
EDC291S Field Practicum: Secondary or K-12 School  
PSY205 Human Development I  
PSY206 Human Development II  
EDC302 Educational Psychology  
EDC310 Classroom Management

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EDC330 Introduction to Teaching Exceptional Learners  
EDC336 Educational Technology  
EDC353 Teaching Reading and Writing in the Content Areas  
EDC365 Native American Education: History and Best Practices  
EDC370 Student Health and Safety  
EDC391S Field Practicum: Secondary or K-12 School  
EDC402 Curriculum and Pedagogy  
Appropriate Content - Area - Specific Senior Methods Course  
EDC427 Standards, Instruction and Student Assessment  
EDC452 Student Teaching in the Secondary School (Grades 5-12)  
EDC490S Seminar: Secondary/K-12 Education

Students must complete an education major in one of the following fields: biology, English, history, mathematics, psychology, social studies broadfield, science broadfield-biology, or science broadfield-chemistry.

Students must complete an education minor in one of the following fields: biology, English, history, mathematics, political science, psychology, reading, or theatre arts. In some cases, an extended single-field education major of at least 40 credits may be substituted for the major-plus-minor plan.

Secondary education students should carefully study departmental requirements listed under the various departments in the catalog, since in many cases, requirements for teaching licensure are different from general majors or minors.

## Content Knowledge Assessment

The assessment for content knowledge required for licensing by the state of Montana (beginning 1/1/13) consists of the following multiple measures:

1. A GPA of thirty credits of content coursework that will be calculated on a 0 to 4 point scale prior to program completion.
2. Assessment of content knowledge demonstrated during student teaching as rated on a 0 to 3 point scale by a highly qualified teacher and a college supervisor .

Score on the appropriate PRAXIS II content knowledge test as calculated on a 0 to 4 point scale..

Rocky Mountain College's licensing officer will use the above components to develop a Content Knowledge Verification Score (CKS) to be calculated as follows:  $CKS = \text{Content GPA points} + \text{Student Teaching Assessment points} + \text{PRAXIS points}$ . The possible range for the CKS is 0-11. Students scoring lower than  $CKS=7$ , or who score zero on any of the three multiple measures, shall not be recommended for licensure.

A score of one (1) on any of the multiple measures will trigger an individualized review of the student's content knowledge and teaching skill by Rocky Mountain College's teacher education program faculty before recommending that student for licensure.

## Major in K-12 Education

To become a teacher of art, music, or physical education and health, the student must be prepared to teach at all levels, K- 12. Students must complete an education major in one of the following fields: art, music, or physical education and health.

Required courses for the K-12 teacher education program are:

ENG119 First Year Writing  
EDC202 Foundations of Education

Choose one:  
EDC291E Field Practicum: Elementary School or  
EDC291S Field Practicum: Secondary or K-12 School

PSY205 Human Development I  
PSY206 Human Development II  
EDC302 Educational Psychology  
EDC310 Classroom Management  
EDC330 Introduction to Teaching Exceptional Learners  
EDC336 Educational Technology  
EDC353 Teaching Reading and Writing in the Content Areas  
EDC365 Native American Education: History and Best Practices  
EDC370 Student Health and Safety  
EDC402 Curriculum and Pedagogy  
PEH420 (for PEH majors only)  
EDC427 Standards, Instruction and Student Assessment  
EDC454 Student Teaching (Grades K-12)  
EDC490S Seminar: Secondary/K-12 Education

Choose one of the following:  
EDC391E Field Practicum: Elementary School  
EDC391S Field Practicum: Secondary or K-12 School

Note: K-12 majors must have one elementary-level practicum experience and one secondary-level practicum experience.

## Content Knowledge Assessment

The assessment for content knowledge required for licensing by the state of Montana (beginning 1/1/13) consists of the following multiple measures:

1. A GPA of thirty credits of content coursework that will be calculated on a 0 to 4 point scale prior to program completion.
2. Assessment of content knowledge demonstrated during student teaching as rated on a 0 to 3 point scale by a highly qualified teacher and a college supervisor .

Score on the appropriate PRAXIS II content knowledge test as calculated on a 0 to 4 point scale..

Rocky Mountain College's licensing officer will use the above components to develop a Content Knowledge Verification Score (CKS) to be calculated as follows:  $CKS = \text{Content GPA points} + \text{Student Teaching Assessment points} + \text{PRAXIS points}$ . The possible range for the CKS is 0-11. Students scoring lower than  $CKS=7$ , or who score zero on any of the three multiple measures, shall not be recommended for licensure.

A score of one (1) on any of the multiple measures will trigger an individualized review of the student's content knowledge and teaching skill by Rocky Mountain College's teacher education program faculty before recommending that student for licensure.

## Nonteaching Major in Education

A student who wants to graduate in education, but does not plan to teach, must complete the requirements for the elementary, secondary or K-12 major with the exception of student teaching. An educationally related internship is required. The courses required for the elementary, secondary, and K-12 majors

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are listed above. Nonteaching education majors do not need to take EDC452, EDC453, EDC454, EDC490E or EDC490S. The nonteaching major must also take EDC450 Internship.

## Minor in Reading

The Rocky Mountain College reading minor is targeted at K-12 education majors aspiring to obtain a K-12 reading endorsement. Upon successful completion of the required courses, the candidate is eligible to apply for the State of Montana Reading Specialists K-12 endorsement. Following the completion of eight required courses, Rocky Mountain College students are eligible for the reading endorsement.

Required courses:

EDC305 Emergent Literacy  
EDC318 Diagnostic Assessment of Reading  
EDC350 Methods and Materials: Teaching Reading and Language Arts in the Elementary School  
EDC353 Teaching Reading and Writing in the Content Areas  
EDC357 Reading Clinic  
EDC360 Children's Literature  
EDC362 Adolescent Readers  
EDC376 Writing Process for K-12 Students

## Education courses

### EDC202

#### Foundations of Education

Semester: Fall and Spring. Semester Hours: 2.

This is an introductory course for students considering teaching as a career. It provides an overview of the purposes of education, the legal basis for schools, school organization and finance, the job of the teacher, general curriculum concepts, school-community relationships, partnering with parents, multicultural education, gender equity in the class-room, and other issues in education today. Students are assisted in clarifying their career goals related to teaching and in planning an educational program to meet those goals.

### EDC291E

#### Field Practicum: Elementary School

Semester: Fall and Spring. Semester Hours: 1.

This course provides practical field experience in an elementary classroom. Each credit hour requires 40 hours of experience. Students must complete the practicum during the fall or spring semester over a period of between 10-14 weeks. Students must complete a field practicum before they can be admitted to the teacher education program. Sophomore standing is required. Students must be able to schedule 2-3 hour blocks of time twice a week, and provide their own transportation.

Prerequisite: EDC202

Corequisite: EDC202

### EDC291S

#### Field Practicum: Secondary and/or K-12 School

Semester: Fall and Spring. Semester Hours: 1.

This course provides practical field experience in a middle or secondary school. Each credit hour requires 40 hours of experience. Students must complete the practicum during the fall or spring semester over a period of between 10-14 weeks. Students must complete a field practicum before they can be admitted to the teacher education program. Sophomore standing is required.

Students must be able to schedule 2-3 hour blocks of time twice a week, and provide their own transportation.

Prerequisite: EDC202

Corequisite: EDC202

### EDC302

#### Educational Psychology

Semester: Fall and Spring. Semester Hours: 3.

This course is designed to aid the student in continuing to develop an understanding of human behavior, especially as that understanding applies to elementary and secondary classrooms. Emphasis will be on why and how human learning takes place and how that learning relates to schools and teaching situations where the needs of each student must be considered. The course also includes participation in and the analysis of interpersonal relations and communication skills. Students must complete EDC302 before they can be admitted to the teacher education program. This course is cross listed with PSY 302.

Prerequisite: PSY205 or PSY206

### EDC305

#### Emergent Literacy

Semester: Spring, Summer. Semester Hours: 3.

This course will provide students with in-depth information regarding the acquisition of language as it pertains to the reading process. Primary focus will be on birth to age 5 and the importance of expressive and receptive language acquisition as it relates to the reading and writing process. Particular emphasis will be placed on key research relating to English as a Second Language, Limited English Proficient, and bilingual learners as that research relates to overall reading and writing achievement. Students will be required to administer reading and writing assessments that will guide instruction for the emergent reader. The alphabetic principle and phonemic awareness will be of primary focus.

Prerequisite: admission to the teacher education program

### EDC310

#### Classroom Management

Semester: Spring. Semester Hours: 2.

This course reviews the fundamental skills of classroom management. Students will be presented with a systemic approach to classroom management. Enforcing classroom standards, building patterns of cooperation, maximizing learning, and minimizing disruptions in order to establish and maintain an effective and safe classroom-learning environment will be emphasized.

Prerequisite: admission to the teacher education program

### EDC318

#### Diagnostic Assessment of Reading

Semester: Spring. Semester Hours: 3.

This course will provide students with extensive knowledge relating to reading assessment tools. Students will become knowledgeable about reading diagnostic tools that provide information about placing children at instructional and independent reading levels, improving sight word vocabulary (DIBELS), improving oral reading fluency (DIBELS) and miscue analysis (running records). Students will also become skilled in the use of criterion and norm-referenced reading and writing assessments to drive reading and writing instruction. Students will be required to acquire all reading data on a specific student, create,



# Academic Programs

and then implement both an enrichment and remediation plan for the student(s).

Prerequisite: admission to the teacher education program

Corequisite: EDC357

## **EDC330**

### **Introduction to Teaching Exceptional Learners**

Semester: Fall. Semester Hours: 3.

This course introduces students to the characteristics, legal requirements, programming, and service requirements for exceptional learners, including gifted and talented students. Categories of disabilities addressed will be those outlined within PL94-142. Emphasis will be given to education with-in the least restrictive environment.

Prerequisite: admission to teacher education program

## **EDC336**

### **Educational Technology**

Semester: Fall and Spring. Semester Hours: 1.

This course is designed to prepare preservice elementary, secondary, and K-12 teachers in the appropriate use of instructional technology, thus fostering an intellectually active and technologically supportive classroom. Students will explore and evaluate instructional software packages, assess Internet resources, build a portfolio of resources appropriate to a grade level and content area, design lesson plans, create and explore tests and other evaluative tools, and learn ways of creating strong parental contacts. The course will culminate in a comprehensive, student-designed multimedia presentation.

Prerequisite: admission to the teacher education program

## **EDC338**

### **Methods and Materials: Teaching Art in the Elementary School (and Secondary when Applicable)**

Semester: Spring. Semester Hours: 3.

This course focuses on the methods and materials for teaching art in the elementary and middle school (and secondary schools when applicable).

Prerequisite: admission to the teacher education program or permission of the instructor

## **EDC341**

### **Methods and Materials: Teaching Health in the Elementary School**

Semester: Fall. Semester Hours: 2.

This course provides competency in the delivery and evaluation of planned learning programs for elementary school children. Content will include knowledge of the purpose and scope of a health curriculum, appropriate health topics, and lesson planning. Multimedia based learning will be examined.

Prerequisite: admission to the teacher education program

## **EDC342**

### **Methods and Materials: Teaching Physical Education in the Elementary School**

Semester: Spring. Semester Hours: 2.

This course provides competency in the delivery and evaluation of planned learning programs for elementary school children. Content will include knowledge of the physiological, psychological, and motor developmental needs of elementary-age children and the implication for curriculum development and

implementation. Includes experience working with children in an on-campus Saturday morning program.

Prerequisite: admission to teacher education program

## **EDC344**

### **Methods and Materials: Teaching General Music in the Elementary School**

Semester: Fall. Semester Hours: 3.

This course provides a study of trends in philosophy, curriculum and program development, traditional instructional materials, Orff/Kodaly, and other innovative teaching techniques for elementary school and early childhood general music. This course is cross listed with MUS 344.

Prerequisite: admission to the teacher education program

## **EDC349**

### **Methods and Materials: Teaching Mathematics in the Elementary School**

Semester: Spring. Semester Hours: 3.

This course focuses on the methods and materials for teaching mathematics in the elementary school based on the National Council of Teachers of Math standards.

Prerequisite: MAT103 or MAT104 and admission to the teacher education program

## **EDC350**

### **Methods and Materials: Teaching Reading and Language Arts in the Elementary School**

Semester: Fall. Semester Hours: 4.

This course provides an integrated approach to the language arts curriculum of listening, speaking, reading, and writing, an approach which corresponds to the development of language skills. Methods of teaching the language arts; the use of books, other written materials, and audiovisual materials; the use of computer programs; methods of assessing and evaluating achievement; and ways of organizing the curriculum form a major portion of the course. The course provides increased familiarity with literature appropriate for elementary school children.

Prerequisite: admission to the teacher education program; junior standing required.

## **EDC353**

### **Teaching Reading and Writing in the Content Areas**

Semester: Spring. Semester Hours: 2.

This course provides K-12 music, art, and physical education and health preservice teachers as well as secondary-level preservice teachers with the tools to teach listening, speaking, grammar, vocabulary, spelling, writing, and study skills with the aim of helping their future students achieve content area literacy and basic necessary reading skills. Learners with special reading needs are addressed, and the writing process and the use of literature in the content class- room are examined. Students also evaluate content-based materials for their reading difficulty level and appropriate- ness and apply the 6-Traits Writing Projects' techniques across disciplines.

Prerequisite: admission to the teacher education program

# Academic Programs

## **EDC355**

### **Methods and Materials: Teaching Social Studies in the Elementary School**

Semester: Fall. Semester Hours: 3.

This course provides an integrated approach to the social studies K-8 curriculum in elementary and middle schools. Emphasis is on the development of daily, weekly, and unit lesson plans. A variety of instructional strategies will be reviewed and practiced. Methods of organizing the curriculum, methods of teaching, and the use of various technological tools are emphasized. The scope and sequence of various curricula will be examined.

Prerequisite: admission to the teacher education program

## **EDC356**

### **Methods and Materials: Teaching Science in the Elementary School**

Semester: Fall. Semester Hours: 3.

This course is designed to provide an integrated approach to the science K-8 curriculum in elementary and middle schools. Emphasis is on the development of daily, weekly, and unit lesson plans. A variety of instructional strategies, including hands-on activities, will be reviewed and practiced. Students will be expected to participate in a teaching team and create integrated thematic lessons.

Prerequisite: admission to the teacher education program

## **EDC357**

### **Reading Clinic**

Semester: Fall and Spring, May be taken more than once.. Semester Hours: 2.

This course will provide students the opportunity to work with off level readers in a clinical setting. Students will complete 40 hours of clinical instruction for a reluctant or underachieving reader or writer. Individualized prescriptive plans will be developed based on reading and writing assessments given in the clinical setting. Special attention will be placed on reading and writing assessment driving reading and writing instruction through the use of one-to-one instruction. Students will become familiar with K-12 reading/writing curriculum to use for instruction. A written clinical report will be the culminating project for the reading clinic course.

Prerequisite: admission to the teacher education program

## **EDC360**

### **Children's Literature**

Semester: Spring. Semester Hours: 3.

This course is designed to increase familiarity with a variety of genres of literature appropriate to the elementary classroom: traditional, modern fantasy, contemporary realistic fiction, poetry, historical fiction, biography, and multi-ethnic literature. Students will evaluate literature for its personal, social, and aesthetic values and will develop effective reading selection criteria.

Prerequisite: Admission to the teacher education program or permission of instructor

## **EDC362**

### **Adolescent Readers**

Semester: Fall, Summer. Semester Hours: 3.

This course will provide information on how to work with struggling readers at the middle and high school level. Students will become familiar with high-interest/low-vocabulary literature and how to infuse this tool as part of a remediation plan. Stu-

dents will be required to develop and implement an individualized remediation plan for a middle or high school student who is reading off level.

Prerequisite: admission to the teacher education program

## **EDC365**

### **Native American Education: History and Best Practices**

Semester: Spring. Semester Hours: 3.

This course examines the forms of traditional American Indian education, historic federal boarding schools, and sectarian and public school approaches to American Indian education. Federal educational policies are reviewed, including 1930's Indian school reform, 1960's community control, civil rights related developments, and 1970's tribal control of education. American Indian education best practices include approaches to language and culture issues, intergenerational learning, dropout prevention, American Indian student educational experiences, and pedagogical practice that works best with Indian students.

Prerequisite: admission to the teacher education program

## **EDC370**

### **Student Health and Safety**

Semester: Spring. Semester Hours: 2.

This course focuses on the recognition of issues that obstruct student learning and on referral to appropriate services, since teachers must help ensure a healthy and safe learning environment. Topics to be studied are classroom safety, communicable diseases, drug abuse, first aid, nutritional deficiencies, physical and emotional abuse, psychological disorders and school violence.

Prerequisite: admission to the teacher education program

## **EDC376**

### **Writing Process for K-12 Students**

Semester: Fall. Semester Hours: 3.

This course will provide students with knowledge about the writing process starting from the emergent level to the advanced level. In addition, students will become knowledgeable about numerous researched-based writing models, which implement both an analytical and holistic rubric for assessment. Focus will be how writing assessment drives the writing instructional process. Using literature to teach writing will be a key component of this course. Topics will include student conferencing, conducting a writing assessment and revision and editing process.

Prerequisite: Admission to the teacher education program or permission of instructor

## **EDC391E**

### **Field Practicum: Elementary School**

Semester: Fall and Spring. Semester Hours: 1.

This course provides practical field experience in an elementary classroom. Each credit hour requires 40 hours of experience. Students are required to take an active part in class-room activities by teaching a minimum of two full lessons. Students must complete the practicum during the fall or spring semester over a period of between 10-14 weeks. Students must be able to schedule 2-3 hour blocks of time twice a week, and provide their own transportation.

Prerequisite: admission to the teacher education program; junior standing is required

# Academic Programs

## **EDC391S**

### **Field Practicum: Secondary or K-12 School**

Semester: Fall and Spring. Semester Hours: 1.

This course provides practical field experience in a middle or secondary school. Each credit hour requires 40 hours of experience. Students are required to take an active part in classroom activities by teaching a minimum of two full lessons. Students must complete the practicum during the fall or spring semester over a period of between 10-14 weeks. Prerequisites: admission to the teacher education program. Students must be able to schedule 2-3 hour blocks of time twice a week, and provide their own transportation.

Prerequisite: admission to the teacher education program; junior standing is required

## **EDC402**

### **Curriculum and Pedagogy**

Semester: Spring. Semester Hours: 3.

This course blends theory and practice to provide a comprehensive overview of the principles and practical application of curriculum. The historical, psychological, ethical, and theoretical foundations of curriculum will be explored as well as current issues, trends, and pedagogical practices. Case studies, class discussion, and DVD study of pre-service teachers at various levels of expertise will be utilized to study K-12 curriculum and instruction, with an emphasis on planning, student-teacher communication, motivation, positive student management as it relates to curriculum, instructional methodology, ethics, and overall professionalism.

Prerequisite: admission to the teacher education program; junior standing required

## **EDC427**

### **Standards, Instruction, and Student Assessment**

Semester: Spring. Semester Hours: 3.

This course focuses on various forms of assessment including federal, state, and local testing and the appropriate use of assessment results. Ways of establishing meaningful and fair assessments will be explored. The reliability and validity of some assessment tools will be examined, and methods of item analysis discussed.

Prerequisite: MAT100 or equivalent; admission to the teacher education program; junior standing strongly recommended

## **EDC450**

### **Internship**

Semester: On Demand. Semester Hours: 6.

This course serves as a capstone course for nonteaching education majors, and will consist of a field experience for qualified senior students graduating with this major. Internships will take place in non-traditional educational settings and be supervised by education faculty.

Prerequisite: completion of all required education courses in elementary education, secondary education, or K-12 education except student teaching (EDC452, EDC453, or EDC454, and EDC490E or EDC490S); permission of the Teacher Education Committee; and an internship contract

## **EDC452**

### **Student Teaching in the Secondary School**

Semester: Fall and Spring. Semester Hours: 9.

This course requires a minimum of 15 weeks of practice teaching at the 5-12 grade level; student teachers are required to modify their assignment according to the host school's calendar. Students must pay a student teaching fee in addition to regular college expenses.

Prerequisite: Permission of the Teacher Education Committee and ALL required education coursework.

## **EDC453**

### **Student Teaching in the Elementary School**

Semester: Fall and Spring. Semester Hours: 9.

This course requires a minimum of 15 weeks of practice teaching at the K-8 grade level; student teachers are required to modify their assignment according to the host school's calendar. Students must pay a student teaching fee in addition to regular college expenses.

Prerequisite: Permission of the Teacher Education Committee and ALL required education coursework.

## **EDC454**

### **Student Teaching (Grades K-12)**

Semester: Fall and Spring. Semester Hours: 9.

This course requires a minimum of 15 weeks of practice teaching at both the K-8 and 5-12 grade levels for physical education and health, art, and music education majors. Student teachers are required to modify their assignment according to the host school's calendar. Students must pay a student teaching fee in addition to regular college expenses.

Prerequisite: Permission of the Teacher Education Committee and ALL required education coursework.

## **EDC490E**

### **Seminar: Elementary Education**

Semester: Fall and Spring. Semester Hours: 3.

This course examines selected topics in elementary education at regularly scheduled meetings. Registration in this seminar is mandatory for all elementary education student teachers.

Prerequisite: admission to the teacher education program  
Corequisite: EDC453

## **EDC490S**

### **Seminar: Secondary/K-12 Education**

Semester: Fall and Spring. Semester Hours: 3.

This course examines selected topics in secondary and K-12 education at regularly scheduled meetings. Registration in this seminar is mandatory for all secondary and K-12 students.

Prerequisite: admission to the teacher education program  
Corequisite: EDC452 or EDC454

## **Educational Leadership**

*Sievie Schmitz, Director*

*Jo Swain, Assistant Professor*

*Christine Unquera, Program Assistant*

The master of educational leadership program at Rocky Mountain College is designed to prepare educational leaders for careers as principals or superintendents. This cohort-based program incorporates state and national standards for educational leadership and is based on Effective School Research. Blending theory

# Academic Programs

and practice through coursework and intensive internship, candidates will be prepared to be instructional leaders at the K-12 level. The program is 34 credits in length depending on previous coursework and has a minimal residency requirement. Graduates of this program will meet the educational requirements for licensure as a principal or superintendent. Candidates should check with the Office of Public Instruction for other licensure requirements.

Required courses:

EDL500 Foundations of Leadership  
EDL505 Dimensions of Leadership I  
EDL510 Dimensions of Leadership II  
EDL520 Supervision of Educational Personnel  
EDL530 Public School Law  
EDL554 Public School Finance  
EDL560 Organizational Change  
EDL570 School Curriculum  
EDL575 Public School and Community Relationships  
EDL590 Leadership Seminar I  
EDL591 Administrative Practicum I  
EDL683 Educational Leadership Capstone  
EDL690 Leadership Seminar II  
EDL691 Administrative Practicum II

## Educational Leadership courses

### EDL500

#### Foundations of Leadership

Semester: Fall. Semester Hours: 2.

The focus of this course is on public school education, past, present and future. Course content will include exploration of the roles of federal, state, and local governance systems as they pertain to leadership roles in public education. No Child Left Behind legislation will be discussed and analyzed from the perspective of the building or district leader. In addition, participants will be introduced to the process of creating a school ethnography, and exploring the school culture, climate, and dynamics from the perspective of a school as a social organization. This experiential course invites class participation, team building and group activities, role-playing, guest lecturers, and group dynamics.

### EDL505

#### Dimensions of Leadership I

Semester: Fall. Semester Hours: 3.

The focus of this course is on the roles and responsibilities of K-12 school administrators including leadership styles and behaviors. Additionally, the influence leadership has on the overall operation of a school building will be explored. Participants will discuss such topics as defining school climate and culture, sustaining partnerships and building collegial teams, and sharing leadership.

### EDL510

#### Dimensions of Leadership II

Semester: Spring. Semester Hours: 3.

The focus of this course is to build on the knowledge and understanding of how leadership influences instruction and teacher practice. Participants will explore the leadership skills required to nurture instructional improvement in schools.

### EDL520

#### Supervision of Educational Personnel

Semester: Spring. Semester Hours: 3.

The focus of this course is on improving, coordinating, and evaluating modern trends of supervisory practice. Students will evaluate and develop instruments for use in the formative and summative evaluation of teaching, as well as for support roles within the school environment. Participants will explore best practice instructional models from which to base the evaluation instrument or process. Participants will become familiar with the evaluation process as it pertains to marginal staff. Students will be required to recommend specific staff development options aligned to improvement of instruction.

### EDL530

#### Public School Law

Semester: Fall. Semester Hours: 3.

This course will study the legal framework of public education (Constitutional law, case law and Montana law) with emphases on Montana and national legislation and case law pertaining to public education and the rights of board members, administrators, students, and parents.

### EDL554

#### Public School Finance

Semester: Spring. Semester Hours: 3.

This course will focus on the development of educational budgets within the confines of available revenue. Taxation, policy analysis, applicable case law, and reporting will be covered.

### EDL560

#### Organizational Change

Semester: Fall. Semester Hours: 3.

The focus of this course is on topics such as the theory of management, communication, human relations, social systems, motivation, decision-making, and change. A particular focus in this course is on the role of the building administrator in improving student achievement in a school reform effort. Practical application of analyzing school data followed by program intervention will be explored. Participants will explore how today's leaders must create and nurture a culture of collaboration, collegiality, and continuous improvement.

### EDL570

#### School Curriculum

Semester: Spring. Semester Hours: 3.

The focus of this course is on the role of leadership in curriculum planning and development with topics including educational and cultural foundations, curricular outcomes, K-12 alignment, standards and community values, developing, managing, and evaluating curriculum, multicultural education, equal access, differentiated instruction, academic freedom, technology, scheduling, censorship, and curriculum associated with various student populations.

### EDL575

#### Public School and Community Relationships

Semester: Fall. Semester Hours: 3.

This course will focus on the interdependence of school and community; identifying and defining societal expectation of schools and the effects of those expectations on educational

# Academic Programs

policy; impact of social, political, economic, and demographic changes on public school policy.

## **EDL590**

### **Leadership Seminar I**

Semester: Fall. Semester Hours: 1.

The focus of this course will be reflection and inquiry regarding the administrative practicum. Problem-solving and best practices will be a component of this course. Discussions will evolve around the ISLLC, ELCC, and PEPP standards. Initial development of the administrative portfolio will be completed during this course.

Corequisite: EDL591

## **EDL591**

### **Administrative Practicum I**

Semester: Fall. Semester Hours: 2.

A directed internship experience designed to relate theories and concepts explored in coursework to educational settings is the primary focus of the field experience. Practical application of theories will be implemented in fieldwork.

Corequisite: EDL590

## **EDL592**

### **Leadership Seminar III**

Semester: Fall. Semester Hours: 1.

The focus of this course will be reflection and inquiry regarding the administrative practicum. Problem-solving and best practices will be a component of this course. Discussions will evolve around the ISLLC, ELCC, and PEPP standards. Initial development of the administrative portfolio will be completed during this course.

## **EDL593**

### **Administrative Practicum III**

Semester: Fall. Semester Hours: 2.

A directed internship experience designed to relate theories and concepts explored in coursework to educational settings is the primary focus of the field experience. Practical application of theories will be implemented in fieldwork.

## **EDL683**

### **Educational Leadership Capstone**

Semester: Spring. Semester Hours: 2.

This course will be the culminating experience for students in the educational leadership program. A comprehensive review of material covered as well as an exit interview will be components of this experience. Theories and principles of advanced leadership practiced in educational settings will be explored within the context of the overall program.

## **EDL690**

### **Leadership Seminar II**

Semester: Spring. Semester Hours: 1.

This course is a continuation of EDL590 and will focus on problem-solving and best practices in the administrative practicum. Practical application of theories will be implemented in fieldwork. Discussions will evolve around the ISLLC, ELCC and PEPP standards. Initial development of the administrative portfolio will be completed during this course. Continued review and development of the school ethnography will be a part of the seminar.

Corequisite: EDL691

## **EDL691**

### **Administrative Practicum II**

Semester: Spring. Semester Hours: 2.

A directed internship experience designed to relate theories and concepts explored in coursework to educational settings are the primary focus of the field experience. Practical application of theories will be implemented in fieldwork.

Corequisite: EDL690

## **English**

*Linaya L. Leaf, Professor*

*Andrew Kirk, Professor*

*Jacqueline Dundas, Associate Professor*

*Stephen Germic, Associate Professor*

*Nicholas Plunkey, Assistant Professor*

*Cara Chamberlain, Instructor*

The English program offers major concentrations in Literary Studies, English Education, and Creative Writing. Students who focus on Literary Studies will immerse themselves in principal works of the Western and non-Western traditions. Whether analyzing themes, characters, styles, or synthesizing ideas, students develop the analytical and communication skills that are exceptional preparation for rich and rewarding personal and professional lives. English Education students take extensive coursework in English and Education curricula to prepare them for careers as middle school and/or high school English teachers. We are pleased to say that our English Education program has an excellent record of placing students in teaching jobs. Finally, students who pursue Creative Writing will discover and refine their own voices in poetry, fiction, and playwriting. Studying both literature and the complex craft of writing, they learn to view texts as a bridge to self-discovery and creative engagement with the world and its rich literary traditions.

### **Major in Literary Studies Option**

A minimum of 36 semester hours. The following courses are required:

ENG252	Close Reading of Poetry
ENG272	British Literature: 800 to 1800
ENG273	British Literature: 1800 to Present
ENG282	American Literature: Origins to 1865
ENG283	American Literature: 1865 to Present
ENG331	Literary Criticism
ENG471	Studies in Shakespeare

Also, 15 additional English credits, at least nine of which must be at the 300-level or higher.

### **Major in English Education Option**

A minimum of 42 semester hours. The following courses are required:

ENG252	Close Reading of Poetry
ENG272	British Literature: 800 to 1800
ENG273	British Literature: 1800 to Present
ENG282	American Literature: Origins to 1865
ENG283	American Literature: 1865 to Present
ENG319	Creative Nonfiction Writing
ENG331	Literary Criticism
ENG338	Literature, Film, and Media

# Academic Programs

ENG359 History and Grammar of English  
ENG420 Methods and Materials: Teaching English in the  
Secondary School  
ENG471 Studies in Shakespeare

Choose one of the following:

ENG223 Introduction to Native American Literature  
ENG224 Introduction to African American Literature  
ENG291 Contemporary World Fiction

Choose one of the following:

ENG445 The American Novel  
ENG447 The American Short Story  
ENG452 American Poetry in the 20th Century

Students must also take one upper-division elective. To fulfill the degree students must complete the professional education program for secondary teaching (grades 5-12) as described in the “education” section of the catalog.

## Major in Creative Writing Option

A minimum of 42 semester hours. The following courses are required:

ENG251 Imaginative Writing  
ENG252 Close Reading of Poetry  
ENG319 Creative Nonfiction Writing  
ENG325 Professional Writing  
ENG365 Journalism  
ENG451 Advanced Imaginative Writing  
ENG471 Studies in Shakespeare  
ENG490W Seminar in Writing  
ENG499 Independent Study

Choose one of the following:

ENG272 British Literature: 800 to 1800  
ENG273 British Literature: 1800 to Present

Choose one of the following:

ENG282 American Literature: Origins to 1865  
ENG283 American Literature: 1865 to Present

Choose one of the following:

ENG223 Introduction to Native American Literature  
ENG224 Introduction to African-American Literature  
ENG291 Contemporary World Fiction

Choose two of the following:

ENG445 The American Novel  
ENG447 The American Short Story  
ENG452 American Poetry in the 20th Century  
ENG456 Studies in Drama

## Minor in Literary Studies Option

A minimum of 18 semester hours, including:

ENG252 Close Reading of Poetry  
ENG331 Literary Criticism

Choose one of the following:

ENG272 British Literature: 800 to 1800  
ENG273 British Literature: 1800 to Present

Choose one of the following:

ENG282 American Literature: Origins to 1865  
ENG283 American Literature: 1865 to Present

Plus six additional upper-division credits in literature.

## Minor in Writing Option

A minimum of 18 semester hours, including

ENG251 Imaginative Writing  
ENG319 Creative Nonfiction Writing  
ENG325 Professional Writing  
ENG365 Journalism  
ENG451 Advanced Imaginative Writing  
ENG490W Writing Seminar

## Minor in English Education Option

A minimum of 27 semester hours. The following courses are required:

ENG252 Closed Reading of Poetry  
ENG319 Creative Nonfiction Writing  
ENG331 Literary Criticism  
ENG338 Literature, Film, and Media  
ENG420 Methods and Materials: Teaching English in the  
Secondary School  
ENG471 Studies in Shakespeare

Choose one of the following:

ENG223 Introduction to Native American Literature  
ENG224 Introduction to African-American Literature  
ENG291 Contemporary World Fiction

Choose one of the following:

ENG272 British Literature: 800 to 1800  
ENG273 British Literature: 1800 to Present

Choose one of the following:

ENG282 American Literature: Origins to 1865  
ENG283 American Literature: 1865 to Present

## English courses

### ENG090

#### Support ESL I

Semester: On Demand. Semester Hours: 3.

These credits will count for the semester in which it is taken but will not be counted toward the 124 credits needed for graduation. Students for whom English is a second language may request this course or may be required to take this course, which will help build intermediate academic English skills. The course will be customized to meet the needs of a particular student or group of students.

### ENG091

#### Support ESL II

Semester: On Demand. Semester Hours: 3.

These credits will count for the semester in which it is taken but will not be counted toward the 124 credits needed for graduation. Students for whom English is a second language may request this course or may be required to take this course which will help build intermediate academic English skills. The course will be customized to meet the needs of a particular student or group of students.

# Academic Programs

## **ENG103**

### **Advanced ESL I**

Semester: On Demand. Semester Hours: 3.

These credits will count for the semester in which it is taken but will not be counted toward the 124 credits needed for graduation. This advanced level course is offered to students for whom English is a second language and who wish to refine their English language skills. The course will be customized to meet the needs of a particular student or group of students.

## **ENG104**

### **Advanced ESL II**

Semester: On Demand. Semester Hours: 3.

These credits will count for the semester in which it is taken but will not be counted toward the 124 credits needed for graduation. This advanced level course is offered to students for whom English is a second language and who wish to refine their English language skills. The course will be customized to meet the needs of a particular student or group of students.

## **ENG118**

### **Basic Composition**

Semester: Fall. Semester Hours: 3.

This course introduces students to the basic skills necessary for writing effectively at the college level and prepares students for the writing demands of other college courses. Students explore many types of writing projects, beginning with a personal essay and ending with a formal critique. Using writing theory, the course emphasizes writing as a process, the importance of revising, and the value of peer editing and evaluating. Sponsored by services for academic success (SAS), this course is linked with Introduction to the Humanities as part of the Rocky Freshman Experience. ENG118 may not be taken to satisfy general education requirements.

## **ENG119**

### **First-Year Writing**

Semester: Fall and Spring. Semester Hours: 3.

This course is an introduction to college writing. Students critically read and discuss texts, learn that writing is a process, experiment with academic prose, develop the skills necessary to create and support a thesis, practice incorporating research into their analysis, and develop grammatical and stylistic competence. Further, working in collaboration with a second discipline, students learn to integrate knowledge. Students keep a portfolio of their work, which includes a self-evaluation of their writing progress. Required of all students entering as freshmen as part of the Rocky Freshman Experience. This course fulfills a general education requirement. It cannot be used to fulfill any major or minor requirement.

## **ENG120**

### **Critical Reading and Evaluative Writing**

Semester: Fall and Spring. Semester Hours: 3.

Designed to follow First-Year Writing, students analyze texts and create effective writing based on their insights. Students practice generating questions that lead to the formation of complex thesis and effective support. Building on the idea of integrated knowledge, students develop strategies aiding them in cross-disciplinary and multi-cultural reasoning. They compose essays deploying diverse strategies, such as definition, classification, comparison/contrast, analysis, and argumentation.

Students keep a portfolio of their work, which includes a self-evaluation of their writing progress. This course fulfills a general education requirement. It cannot be used to fulfill any major or minor requirement.

Prerequisite: ENG119

## **ENG223**

### **Introduction to Native American Literature**

Semester: Fall, Alternate Years. Semester Hours: 3.

An examination of selected literature produced by such Native American writers as Momaday, Welch, Erdrich, McNickle, Silko, and others. Students will consider issues of genre, history, and politics as they relate to American literature. Special emphasis is given to the oral tradition and its relationship to contemporary American writing.

## **ENG224**

### **Introduction to African American Literature**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course is a study of selected topics in African American literature and criticism. Topics vary but may include such areas as the literature of civil rights, African American memoir, captivity and freedom narratives, African American poetry, theories of race and class, and Black feminist writing, among others.

## **ENG236**

### **Literature and Photography**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course is an interdisciplinary study of the relationship between photography and the literature, art, politics, and history from the nineteenth-century to the present. It introduces theories of photography as well as works of individual artists.

## **ENG242**

### **Modern Dramatic Literature**

Semester: Fall, Alternate Years. Semester Hours: 3.

Focusing on script analysis, students consider diverse trends in play-writing and theatrical performances over the past hundred years as viewed through the works of the major playwrights of Europe and the United States. Trends studied include expressionism, surrealism, cubism, and absurdism. This course encourages cross-cultural understanding. This course is cross listed with THR 242.

## **ENG244**

### **Literature and the Environment**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course is a comparative study of the environmental imagination as expressed in literature. By reading and discussing a wide range of literary texts, students investigate timeless and more urgent questions, such as "What is nature?"; "What is our responsibility to the environment?"; "How do various cultures express their relation to the natural world?";

## **ENG245**

### **Travel Literature**

Semester: On Demand. Semester Hours: 3.

Students in this course explore the world of travel writing through the diverse narratives of selected contemporary and classic travel writers. The course emphasizes literary analysis, with particular attention paid to understanding the cultural and historical contexts of this literature.

# Academic Programs

## ENG247

### War Literature

Semester: Spring, Alternate Years. Semester Hours: 3.

Students explore how a variety of writers through time have represented the tragedy, trauma, and psychology of war. The course covers fictional and non-fictional works from various historical and literacy periods as well as genres such as epic and lyric poetry, romance, and drama.

## ENG251

### Imaginative Writing

Semester: Fall. Semester Hours: 3.

This introduction to imaginative writing explores poetry and short fiction. The course is a workshop focusing on the stages of free writing, drafting, presenting, and revising poems and prose. Elements of poetry discussed include tone, voice, image, metaphor, and devices of sound, meter, traditional structure, and innovations. Elements of fiction emphasized include setting, character development, dialogue, plot, and conflict.

Prerequisite: ENG119

## ENG252

### Close Reading of Poetry

Semester: Fall. Semester Hours: 3.

Students are introduced to the genre of poetry. The course provides students with a foundation in the methods of detailed reading and analysis essential to an understanding of poetry and, more broadly, to the study of literature. The course addresses the basics of prosody, poetic devices such as diction, metaphor, image, tone, and major verse forms such as the sonnet, elegy, ode, ballad, dramatic monologue, and free verse. The texts reflect the continuity and variation in the history of British and American poetry and provide a sample of works from the 16th century to the present.

## ENG253

### Classical Dramatic Literature

Semester: Fall, Alternate Years. Semester Hours: 3.

Focusing on script analysis, this course provides a chronological study of the major theatrical periods of dramatic literature from the emergence of Greek tragedy in the 5th century BC to the development of European realism in the late 19th century. The course also encourages cross-cultural understanding. This course is cross listed with THR 253.

## ENG254

### Writing Consultant Practicum

Semester: Fall. Semester Hours: 1.

Students learn the theory and practice of peer tutoring. Along with traditional classroom discussions and reading assignments, students train for and eventually lead tutoring sessions at the campus writing center.

Prerequisite: ENG119, ENG120, COM250; letter of recommendation from faculty member

## ENG258

### Topics in Language and Literature

Semester: On Demand. Semester Hours: 3.

Content varies, including comparative literature topics, problems in literature topics, and language topics. This course may be taken more than once.

## ENG270

### Literature of Montana and the American West

Semester: On Demand. Semester Hours: 3.

This course examines literature written by and about people living in Montana and the western United States, including American Indians, women, and immigrants.

## ENG272

### British Literature: 800 to 1800

Semester: Fall. Semester Hours: 3.

The first in the sequence of two British literature surveys, this course provides an introduction to the formative period of British language and literature. Students read representative works from the Anglo-Saxon, Middle English, Renaissance, Restoration, and 18th century periods against their literary, historical, linguistic, and philosophical backgrounds.

## ENG273

### British Literature: 1800 to Present

Semester: Spring. Semester Hours: 3.

The second in the sequence of two British literature surveys, this course introduces students to Romantic, Victorian, Modern and Postmodern literature, analyzing selected texts, from the end of the 18th century to the end of the 20th, against their literary, historical, ideological, and cultural backgrounds.

## ENG282

### American Literature: Origins to 1865

Semester: Fall. Semester Hours: 3.

This course provides a survey of major literary works from the Puritan, Enlightenment, and Romantic periods. Emphasis is placed on such figures as Edwards, Franklin, Emerson, Hawthorne, Poe, Thoreau, Jacobs, Whitman, Douglass, Melville, and Dickinson. The literature is examined in the context of literary, historical, and philosophical backgrounds.

## ENG283

### American Literature: 1865 to Present

Semester: Spring. Semester Hours: 3.

This course provides a survey of major literary works since the Civil War. Emphasis is placed on such figures as Twain, James, Crane, DuBois, Chopin, Wharton, Toomer, Cather, Hughes, Hemingway, and Stevens. The literature is examined in the context of literary, historical, and philosophical backgrounds.

## ENG291

### Contemporary World Fiction

Semester: Spring. Semester Hours: 3.

This course introduces students to recent prose fiction, with special attention paid to non-Western and non-American works.

## ENG319

### Creative Nonfiction Writing

Semester: Fall. Semester Hours: 3.

Students study examples of creative nonfiction and practice writing their own. They also gain experience-incorporating research into their prose.

Prerequisite: ENG119



# Academic Programs

## ENG322

### **Renaissance Literature**

Semester: Fall, Alternate Years. Semester Hours: 3.

Students examine the Renaissance as expressed in British literature. Typical subjects of study include the early humanism of More, the courtly poetry of Wyatt and Surrey, the sonnets of Drayton, Sidney, and Wroth, the chivalric romance of Spencer, the satire of Nashe, the drama of Kyd, Marlow, Shakespeare, Webster, Jonson, and Ford, the essays of Francis Bacon, and the poetry of Donne, Herbert, Herrick, and Marvel.

## ENG325

### **Professional Writing**

Semester: Fall. Semester Hours: 3.

This course teaches concepts, practices, and skills for communicating technical, scientific, or business-related information. Topics include understanding how people read, designing documents, incorporating graphics, writing about statistical results, rewriting, editing, and using the Internet. This course may be especially useful for non-English majors, providing them with the tools and techniques to communicate their messages effectively. Prerequisite: ENG119

## ENG331

### **Literary Criticism**

Semester: Fall. Semester Hours: 3.

This course introduces students to current controversies in literary criticism. The course discusses approaches to literary analysis such as deconstruction, cultural criticism, and postcolonialism. Students typically use a casebook method, observing how critics from divergent backgrounds interpret a single text. Students critique these various approaches and refine their own critical practices.

## ENG333

### **British Romantic Literature**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course examines a wide range of British Romantic texts. Students read and analyze selected works against the literary, historical, and philosophical background of late 18th and early 19th century England. Representative authors include Blake, Radcliffe, Wordsworth, Wollstonecraft, Coleridge, Byron, Shelley, Keats, and DeQuincy.

## ENG334

### **The British Novel**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course surveys the rise and development of the British novel. It includes an analysis of such Eighteenth-century writers as Defoe, Sterne, Fielding, Radcliffe, and Burney; early Nineteenth-century writers such as Austen, Shelley, and Scott; such Victorian novelists as Dickens, the Bronte sisters, Eliot, Thackeray, Trollope, and Hardy; and such Modernists as Conrad, Woolf, Joyce, Forster, and Lawrence.

## ENG338

### **Literature, Film, and Media**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course investigates interrelations among literature, film, and other forms of non-print media. Subject matter will include literary works, films, television, web-content, and emerging technologies through which cultural narratives are increasing-

ly transmitted and developed. Theories of audience reception, textual production, and modes of critical interpretation will be emphasized.

## ENG347

### **The American Renaissance**

Semester: Fall, Alternate Years. Semester Hours: 3.

Students examine the extraordinary quickening of American writing in the years before the Civil War. Of central concern are the different visions of "America" these literary texts propose. Authors may include Emerson, Hawthorne, Poe, Thoreau, Child, Fuller, Douglass, Whitman, Jacobs, Melville, and Dickinson.

## ENG354

### **Writing Consultant Practicum**

Semester: Spring. Semester Hours: 1.

Students learn the theory and practice of peer tutoring. Along with traditional classroom discussions and reading assignments, students train for and eventually lead tutoring sessions at the campus writing center.

Prerequisite: ENG119, ENG120, COM250; letter of recommendation from faculty member

## ENG355

### **Mass Media**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course explores how the communication medium, whether smoke signals, newspapers, television or the Internet, influences human communication. With each change in technology, communication changes. These changes alter what it means to be human. Students must be able to understand the power of the media to better manage its influence in their personal and professional lives.

## ENG356

### **American Naturalism and Realism**

Semester: Spring, Alternate Years. Semester Hours: 3.

Considers literary realism and naturalism in terms of its philosophy, influence, and development during the period in American culture that Mark Twain called "The Gilded Age." Authors may include Twain, James, Jewett, Chopin, London, Norris, DuBois, Crane, Frederick, and Dreiser.

## ENG358

### **Topics in Language and Literature**

Semester: On Demand. Semester Hours: 3.

Content varies, including comparative literature topics, problems in literature topics, and language topics. This course may be taken more than once.

## ENG359

### **History and Grammar of English**

Semester: Fall, Alternate Years. Semester Hours: 3.

Students are introduced to the linguistic and theoretic approaches to the study of English, including phonology and morphology. Students pursue an in-depth study of syntax, focusing on the grammar of words, phrases, clauses, and sentences. Students also review the history of English from proto-Germanic to the development of regional dialects, cultural variations, and "global" English.

# Academic Programs

## **ENG362**

### **Literary Modernism**

Semester: Fall, Alternate Years. Semester Hours: 3.

Students examine the major movement in Western art in the first half of the twentieth century as reflected in representative literary texts. Attention focused on the questions: What is modernism? What is its relation to naturalism and realism? How does literary art fuse with the other arts during this period? Authors may include Joyce, Stein, Pound, Eliot, Williams, Cather, Toomer, Ford, Lawrence, Woolf, Hemingway, Fitzgerald, and Faulkner.

## **ENG365**

### **Journalism**

Semester: Fall. Semester Hours: 3.

Providing an introduction to writing print, broadcast, and multimedia articles and producing a professional publication, this course is strongly recommended for all students participating on the student newspaper.

## **ENG370**

### **Religion and Literature**

Semester: On Demand. Semester Hours: 3.

A study of religious issues, conflict, and hopes in modern literature. Studied works will vary from year to year, but they may include texts by authors such as Melville, Tolstoy, Hemingway, Flannery O'Connor, and John Updike. This is a writing-intensive course. This course is cross listed with PHR 370.

## **ENG418**

### **Writing and Publishing in New York City**

Semester: Fall. Semester Hours: 3.

Students will meet regularly throughout the term and spend eight days in New York City attending workshops and seminars on publishing, editing, and freelance writing. They meet professional writers, editors, and agents who introduce them to all aspects of the writing and publishing professions. Students also visit museums and attend cultural and literary events.

Prerequisite: ENG120

## **ENG420**

### **Methods and Materials: Teaching English in the Secondary School**

Semester: Fall, Alternate Years. Semester Hours: 3.

This seminar requires focused study and consultation with a public school English/language arts teacher or other acceptable professional in the field. Hours will be arranged in consultation with the content area professor, the appropriate education professor, the student, and the professional mentor. The course focuses on English pedagogy with special attention to reading and writing instruction. Students study methods for creating a classroom conducive to learning, select materials for motivational and instructional purposes, incorporate technology in classroom strategies, evaluate and assess student work, integrate the language arts with other content areas, and examine the scope and sequence of literature and writing for grades 5-12. This seminar strongly emphasizes practical methodologies and is the capstone course for the English education major.

Prerequisite: admission to the teacher education program, senior standing

## **ENG445**

### **The American Novel**

Semester: Spring, Alternate Years. Semester Hours: 3.

Students examine American novels from the nineteenth-century to the present. Attention is given both to the genre of the novel as well as to the individual literary works. Content varies, but representative topics include the way in which personal and national identities are shaped or defined in the fictional texts, the role of the marketplace in influencing literary practice, and the relation between American fiction and philosophy.

## **ENG447**

### **The American Short Story**

Semester: Spring, Alternate Years. Semester Hours: 3.

Students are introduced to the genre of the short story, emphasizing major American writers from the nineteenth century to the present. Particular attention is directed to historical and cultural backgrounds. Students cultivate skills in critical analysis by focusing on issues of character, plot, theme, point of view, setting, tone, style, and other literary devices as they function within the context of individual stories.

## **ENG450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. The internship should relate to the student's major or minor area of study. Contract is required.

Prerequisite: junior or senior standing

## **ENG451**

### **Advanced Imaginative Writing**

Semester: Spring. Semester Hours: 3.

This course offers extensive imaginative work in a broad range of genres. Students explore the creative process and challenge themselves with longer and more complex assignments than in Imaginative Writing. They experiment with points of view other than their own and with styles of writing. They also work independently to produce a significant amount of polished work in a writing portfolio. Students keep a writing journal and have considerable input into the development of assignments.

Prerequisite: ENG251

## **ENG452**

### **American Poetry in the 20th-Century**

Semester: Fall, Alternate Years. Semester Hours: 3.

An in-depth study of American poetry in the twentieth-century, focusing on representative poets in the context of literary and cultural history. Representative poets include Pound, Lowell, HD, Eliot, Frost, Stevens, Williams, Oppen, Niendecker, Sexton, Rich, Kerouac, Rexroth, and Ronan. Particular emphasis is on developing and strengthening students' skills in the close reading of poetry.

## **ENG456**

### **Studies in Drama**

Semester: Fall, Alternate Years. Semester Hours: 3.

Students examine authors, themes, and/or movements significant in British, American, European, or world drama. It includes

# Academic Programs

reading and analysis of selected plays. Focus is on variety in period, type, and technique. Content varies.

## ENG458

### Major Author

Semester: On Demand. Semester Hours: 3.

Students explore, in-depth, one major writer from the British or American literary tradition. Content varies. This course can be taken a maximum of two times.

## ENG471

### Studies in Shakespeare

Semester: Spring. Semester Hours: 3.

Students engage in the advanced study of Shakespeare's works, analyzing them within their literary, historical, theatrical, linguistic, and cultural contexts. Particular attention in this course is devoted to the major critical and theoretical approaches to Shakespeare, providing a foundation for students intending to go to graduate school in English or teach English at the secondary level.

## ENG490-L

### Seminar in Literary Studies

Semester: Fall, Alternate Years. Semester Hours: 2-3.

Intensive work is done in a selected area of literary studies. This course includes a major research essay or creative project. Students are encouraged to visit a research library while completing their major project.

## ENG490-W

### Seminar in Writing

Semester: Spring. Semester Hours: 3.

This is an occasional course of advanced creative nonfiction, poetry, drama, or fiction. The course may consist of workshops, discussions, readings, peer reviews, presentations, and revised writings that cover elements of contemporary craft, editing, publishing, and market.

Prerequisite: ENG251 or ENG 319 or permission of the instructor.

## ENG492

### Soliloquy

Semester: Spring. Semester Hours: 3.

This course examines writing as a communicative art form from three points of view: creator, editor, and performer. Students submit their revised work to the student writing competition; take responsibility for the literary journal, Soliloquy; and organize the "Focus on Rocky Writers" evening, where selected works are shared with an audience.

Prerequisite: ENG120

## ENG499

### Independent Study

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater. Prerequisite: junior or senior standing

## Environmental Management & Policy

*Tim Lehman, Professor*

*Jennifer Lyman, Professor*

*Anthony Piltz, Professor*

*Scott Severance, Professor*

*David Strong, Professor*

*Stephen Germic, Associate Professor*

*Karen Beiser, Assistant Professor*

*Matthew O'Gara, Assistant Professor*

*Kayhan Ostovar, Associate Professor*

*Lucas C. Ward, Visiting Assistant Professor*

The Environmental Management and Policy program (EMP) provides students with rigorous, problem-oriented training in the theories and practical skills they will need to contribute meaningfully to ongoing efforts to craft a sustainable, just world. Through interdisciplinary course work and unique field-work, internship, and service-learning opportunities in the Yellowstone River watershed (and beyond) EMP students learn to think, speak, and write critically and pragmatically about the links between environmental science, human development, and decision-making. Rocky Mountain College's location along the Yellowstone River and close to the both the Beartooth Mountains and Yellowstone National Park provides EMP students with unique opportunities to explore first-hand the human-environment-dynamics and development patterns that drive resource management policies.

### Program Student Learning Outcomes

Graduates with a degree in Environmental Management and Policy will:

- Apply fundamental theories from the disciplines of business, the natural science and social sciences, and the humanities to environmental issues;
- Demonstrate knowledge of political, legal, and economic processes associated with environmental management and policy;
- Demonstrate knowledge of the ethical implications of environmental management and policy decisions.

### Major in Environmental Management & Policy

Core requirements:

EST101	Introduction to Environmental Studies
ESC105	Environmental Science: Sustainable Communities
ESC225	Energy and Society
ECO201	Principles of Macroeconomics
ECO202	Principles of Microeconomics
ECO354	Environmental Economics
BSA321	Principles of Management
ENG244	Literature and the Environment
PHR304	Environmental Ethics
POL313	Environmental Politics

Choose three of the following:

BSA331	Business Law
BSA412	Business Ethics
BSA318	Entrepreneurship
OR	
BSA425	Small Business Operations
ECO401	International Trade

# Academic Programs

ESC209	Field Survey Techniques in Zoology
ESC314	Range Ecology
ESC330	Wildlife Ecology and Conservation
ESC436	Yellowstone Winter Ecology
GEO320	The Geology of Natural Resources
HST365	American Environmental History
IDS205	Negotiations
POL301	International Relations

Or a relevant Special Topics course with permission of faculty.

## Environmental Management & Policy courses

### BSA318

#### Entrepreneurship

Semester: Fall. Semester Hours: 3.

Students will learn the characteristics of successful entrepreneurs, how to seek and evaluate opportunities for new ventures, how to prepare a complete business plan, and how to plan strategies and gather resources to create business opportunities.

### BSA321

#### Principles of Management

Semester: Fall and Spring. Semester Hours: 3.

Students examine the management functions and basic concepts and principles of management, including planning, organization, coordination, control, job design, and human resource management. Topics in human resource management include recruitment, selection, administration of personnel policies, and dismissals. This course is often required as a prerequisite for master's level business programs.

Prerequisite: Junior or senior standing

### BSA331

#### Business law

Semester: Fall. Semester Hours: 3.

A course that explores the legal principles relating to business transactions: contracts, sales, commercial paper, intellectual property, and e-commerce. A study of the legal environment of business is emphasized. This course is often required as a prerequisite for master's level business programs.

### BSA412

#### Business Ethics

Semester: Fall. Semester Hours: 3.

A study of the ethical problems that evolve in the modern business world, including a brief history of ethics and the practical ethical problems associated with running a business. Knowledge of ethical concepts as they apply to business management is explored through case studies and student class presentations. Emphasis is on the role of management as it affects stockholders, employees, customers, and competitors. Issues such as product safety, plant closures, advertising, doing business in other countries, and the overall role of business and society are discussed. Corequisite: Junior or senior standing

### BSA425

#### Small Business Operations

Semester: Spring. Semester Hours: 3.

This course focuses on how owners and managers grow companies in a professional manner while maintaining the entrepre-

neurial spirit. Students draw from varied disciplines to create and understand strategies for building and growing a successful venture.

Prerequisite: Junior or senior standing

### ECO201

#### Principles of Macroeconomics

Semester: Fall and Spring. Semester Hours: 3.

This course is the study of aggregate economic problems, including an introduction to the economics of full employment, economic growth, and price stability.

### ECO202

#### Principles of Microeconomics

Semester: Fall and Spring. Semester Hours: 3.

Students study individual economic problems. This course offers an introduction to production and exchange, pricing policies, and resource allocation under alternative competitive situations.

### ECO354

#### Environmental Economics

Semester: Spring. Semester Hours: 3.

Students examine the application of microeconomics to problems of the environment. This course is offered both for the major and for those interested in environmental problems.

Prerequisite: ECO202

### ECO401

#### International Trade

Semester: Spring. Semester Hours: 3.

The structure of world trade, the effect of international trade upon national income, exchange rates, problems of foreign aid and investment, and industrialization of underdeveloped countries.

Prerequisite: ECO201 and ECO202

### ENG244

#### Literature and the Environment

Semester: Spring. Semester Hours: 3.

This course is a comparative study of the environmental imagination as expressed in literature. By reading and discussing a wide range of literary texts, students investigate timeless and more urgent questions, such as "What is nature?"; "What is our responsibility to the environment?"; "How do various cultures express their relation to the natural world?"

### ESC105

#### Environmental Science: Sustainable Communities

Semester: Fall and Spring. Semester Hours: 4.

This course is a comparative study of the environmental imagination as expressed in literature. By reading and discussing a wide range of literary texts, students investigate timeless and more urgent questions, such as "What is nature?"; "What is our responsibility to the environment?"; "How do various cultures express their relation to the natural world?"

### ESC209

#### Field Survey Techniques in Zoology

Semester: Spring. Semester Hours: 4.

This course is a comparative study of the environmental imagination as expressed in literature. By reading and discussing a

# Academic Programs

wide range of literary texts, students investigate timeless and more urgent questions, such as “What is nature?”; “What is our responsibility to the environment?”; “How do various cultures express their relation to the natural world?”.

Prerequisite: ESC105 and/or BIO112

## ESC225

### Energy and Society

Semester: Spring. Semester Hours: 3.

Students are introduced to the concepts of energy, power and the physical laws that control their transformations. This understanding is applied to analyze human use of energy. Issues considered include the various sources of energy and their limits, the technologies of energy conversion, the end uses of energy, and the environmental consequences of energy use.

## ESC314

### Range Ecology

Semester: Fall. Semester Hours: 4.

Range ecology is the study of mixed grass prairies of the West and an introduction to ecological concepts applicable to that area. Topics include historical and current land use, ecosystem responses to change, methods for maintaining natural prairie habitats, the use of prairies as rangelands, and determinations of ecological conditions and trends on rangelands. The laboratory focuses on identification of common prairie plant species and their importance for both wildlife and domestic animals. Three hours of lecture and one two-hour laboratory session per week.

Prerequisite: BIO112, CHM101, and CHM102

## ESC330

### Wildlife management and Conservation

Semester: Spring. Semester Hours: 4.

A multidisciplinary approach to conservation and management issues encompassing genetics to ethics. Topics include population genetics, evolutionary mechanisms, biodiversity, reserve design, and re-introduction strategies. Written reports and oral presentations required. Additional fee required.

Prerequisite: BIO112 and ESC105

## ESC436

### Yellowstone Winter Ecology

Semester: Spring. Semester Hours: 4.

This course focuses on the ecology of Yellowstone National Park, particularly emphasizing the complex interactions of large mammals with the forest and range plant communities. Students explore the methods used by the National Park Service to establish natural resource policies and examine the Park’s scientific research priorities. Two extended weekend laboratories provide research opportunities that include topics in winter ecology and aspects of the role of large mammals in the Yellowstone ecosystem. Additional fee required.

Prerequisite: ENG119, ENG120, and BIO112

## EST101

### Introduction to Environmental Studies

Semester: Fall. Semester Hours: 3.

This course explores the complexity of environmental issues as approached from the perspectives of the arts, humanities, and social sciences. Since environmental issues are inherently complex, attention is focused on how human beings perceive, understand, and respond to environmental change. Emphasis is placed

on developing students’ abilities to investigate matters critically and to respond in original, thoughtful, and imaginative ways.

## GEO320

### The Geology of Natural Resources

Semester: Spring. Semester Hours: 4.

This course involves the study of geologic processes that produce mineral, coal, crude oil and natural gas (e.g. coalbed methane) deposits and environmental issues associated with their extraction and use. Emphasis is placed on regional deposits with field trips to appropriate sites. Two hours of lecture per week and field trips.

Prerequisite: Either GEO101/104 or GEO105

## HST365

### American Environmental History

Semester: Fall, Alternate years.. Semester Hours: 3.

This course examines the interrelationship of human society and nature in American history. Topics will include ecology as it relates to European conquest of the Americas, Native American peoples, public lands policies, American national character, technological society, conservation, and the modern environmental movement.

## IDS205

### Negotiations

Semester: Fall. Semester Hours: 2.

Negotiation constitutes the primary form of dispute resolution. Negotiation is a comprehensible social process, not a mystical process in a black box; it can be analyzed, understood, and modeled. Negotiation is a learnable and teachable skill. Negotiator’s are made not born, and skills can be improved and relearned throughout life. The goal of this course is to empower the student, to become a comfortable negotiator - to appreciate the professional and personal enjoyment to be derived from negotiating.

## PHR304

### Environmental Ethics

Semester: Spring. Semester Hours: 3.

This course will address issues such as whether natural beings and the natural world have rights or whether only humans have rights. Students will determine what is ethically appropriate for humans in their relationship with the environment as well as what environmental ethics must take account of to be consequential in the world today.

## POL301

### International Relations

Semester: Spring, On Demand. Semester Hours: 3.

Students examine an analysis of the way nations interact with one another and how the necessities of power and the desire to regulate the use of power in the international arena have influenced twentieth-century world politics.

Prerequisite: A lower-division history or political science course

## POL313

### Environmental Politics

Semester: Spring. Semester Hours: 3.

Political problems associated with the human impact on the natural environment: pollution, natural resources, public lands, land use, energy, cultural/social justice, and population.

# Academic Programs

## Environmental Science

*Jennifer Lyman, Professor*

*Kayhan Ostovar, Associate Professor*

### Mission

The environmental science and studies program at Rocky Mountain College, while simultaneously cultivating skills in critical thinking and effective communication, provides students with the intellectual training necessary for understanding the complexity of natural ecosystems as they interface with human concerns.

### Program Description

Environmental science and studies majors pursue a liberal arts education by taking relevant courses in the natural sciences, social sciences, and humanities. Students in the program first enroll in a core of introductory courses designed to familiarize them with the diversity and complexity of environmental issues. Each student then selects between one of two baccalaureate degree tracks - the BA in environmental studies or the BS in environmental science. Upon graduation, students in both tracks are prepared for a wide and rapidly evolving range of careers concerned with the interface between human beings and their environment. Similarly, for those students whose career choices require graduate or professional study, the environmental science and studies program provides the training and discipline necessary for the pursuit of an advanced degree.

### Major in Environmental Science

The major requires a minimum of 59 total credits. A minimum of 33 semester credits must come from ESC courses. A total of 7 credits must be 300 level or above from ESC or BIO electives (3 credits may be through the Yellowstone Association Institute agreement with RMC).

The following courses are required:

EST 101 Introduction to Environmental Studies  
ESC 105 Environmental Science: Sustainable Communities  
ESC 209 Field Survey Techniques in Zoology  
ESC 251 Environmental Document Writing and Review  
ESC 321 Introduction to Geographic Information Systems  
ESC 436 Yellowstone Winter Ecology  
ESC 450 Internship (Credits do not count toward minimum credits.)  
BIO 120 Principles of Biology  
GEO 101 and GEO 104 Fundamentals of Geology and Lab  
MAT 210 Probability and Statistics

Choose one of the following:

ESC 314 Range Ecology  
ESC 325 Wetlands and Riparian Ecology

Choose one of the following:

ESC 317 Bird Conservation and Research  
ESC 330 Wildlife Management and Conservation

Choose one of the following:

CHM 102 General Chemistry II  
GEO 316 Geochemistry

Choose three of the following:

ENG 244 Literature and the Environment  
HST 365 American Environmental History  
PHR 304 Environmental Ethics  
PHR 378 Philosophy of Technology and Modern Culture  
POL 313 Environmental Politics  
ECO 354 Environmental Economics  
ESC 225 Energy and Society

An internship is required and can be used for up to 4 credits of science electives with permission from faculty.

### Minor in Environmental Science

The following is required:

ESC105 Environmental Science: Sustainable Communities  
ESC225 Energy and Society  
ESC251 Environmental Document Writing and Review

Choose one of the following:

BIO112 General Biology II  
CHM101 General Chemistry I  
GEO101/104 Fundamentals of Geology, Option I  
GEO105 Fundamentals of Geology, Option II

In addition, 12 semester hours in upper-division courses are required from any upper division ESC course.

## Environmental Science courses

### ESC105

#### Environmental Science: Sustainable Communities

Semester: Fall and Spring. Semester Hours: 4.

An introductory course designed for students entering the environmental sciences and studies program and for other students who would like to take an ecology lab course. Topics address the central concepts of ecology including the physical environment in which life exists. Students will explore the properties and processes of populations and communities, ecosystem dynamics, biogeography and biodiversity, as well as issues in conservation and restoration ecology. In laboratory students will apply these concepts to ecological studies in the natural environment and learn how to present their results in a scientific report. Three hours of lecture and one two-hour laboratory session per week.

### ESC207

#### Field Botany/Spring Wildflowers

Semester: Spring. Semester Hours: 4.

Students receive an intensive introduction to the evolutionary relationships of vascular plants and their classification. The course emphasizes plant identification based on use of taxonomic keys and focuses on angiosperm species in the Yellowstone River watershed, particularly the prairie habitats, the Pryor Mountains, the riparian habitats of the Yellowstone, and the foothills of the Beartooth Mountains. Field trips are required. This course may be taken at the lower-division level or at the upper-division level, but not both.

Prerequisite: BIO112 or ESC105

### ESC209

#### Field Survey Techniques in Zoology

Semester: Spring, Even Years. Semester Hours: 4.

A field and laboratory course covering basic field techniques to survey and inventory areas to assess biodiversity, with an em-

# Academic Programs

phasis on Montana mammal, bird, reptile, amphibians and fish fauna. Topics include species identification, survey and trapping, experimental design, data analysis, and report completion. Once identification and survey skills are learned, field teams will be formed and assigned to survey and inventory local habitats of concern with the goal of helping guide local management and restoration of these habitats. Additional fee required. Prerequisite: ESS105 and/or BIO112

## ESC215

### **Fast Food Nation**

Semester: On Demand. Semester Hours: 3.

Are we what we eat? Fast Food Nation focuses on the environmental impacts of our food systems. Plants matter to us at the most basic level. They have evolved to provide us with nutrients by appealing to our senses of taste, touch, smell, and sight. We humans have responded by manipulating plants in a quest for “fast” (and cheap) food. This course uses the scientific concepts of plant growth, technology, and ecology to evaluate our environmental health in our diet and to explore several new, alternative approaches for healthy eating.

## ESC225

### **Energy and Society**

Semester: Spring, Alternate Years. Semester Hours: 3.

Students are introduced to the concepts of energy, power and the physical laws that control their transformations. This understanding is applied to analyze human use of energy. Issues considered include the various sources of energy and their limits, the technologies of energy conversion, the end uses of energy, and the environmental consequences of energy use.

## ESC230

### **Rainforest Ecology**

Semester: Spring. Semester Hours: 3.

This course introduces students to the concepts of population and community ecology through studies of rainforest geography, flora, and fauna. Students read scientific papers focusing on rain forest plants and animals and the complex interactions of these organisms in rainforest environments. Students discuss environmental issues such as sustainable agriculture, global cycling of air and water, and conservation biology as those issues pertain to rainforest issues today.

Prerequisite: ENG119 and ENG120

## ESC243

### **Environments of Costa Rica**

Semester: Spring. Semester Hours: 4.

This field course takes place in Costa Rica during spring break. In lectures and in Costa Rica over spring break students will learn about the complexity and diversity of tropical forest ecosystems. Lectures and field activities focus on those ecological concepts particular to rainforests, natural history walks, bird studies, field activities that explore adaptations of plants and animals to tropical ecosystems, and examination of issues of tropical conservation. Students stay at field stations in different tropical forests environments. Additional travel fees required.

## ESC244

### **Island Biogeography in the Galapagos**

Semester: Spring. Semester Hours: 4.

This field course takes place in the Galapagos Islands over spring break. Students will have the opportunity to examine various islands and their associated species in the Galapagos from a small sleep-aboard boat. Lectures and readings will cover the theory of island biogeography, unique flora and fauna of the islands, speciation of Darwin’s Finches, conservation in developing countries, ecotourism and marine ecosystems. Opportunities will exist for nature hikes, bird watching and snorkeling. Additional travel fees required.

## ESC247

### **Biogeography**

Semester: On Demand. Semester Hours: 3.

Biology, geology, geography, paleontology, and ecology form the roots of this multidisciplinary science. One of the most intriguing problems facing life scientists today is how to explain the diversity of organisms and their varying patterns of distribution over the surface of the earth now and through time. Why are there so many species of grasses in one field in Montana? What factors determine how many species may be present on an island at any particular time? What does the fossil record tell about the changing patterns of distribution of organisms? How do interactions between organisms affect the likelihood of species occurring in communities? What changes in species distribution are taking place on our planet today? Biogeography has relevance to many contemporary problems regarding species conservation. An understanding of the process that have influenced successes and failures of other species in other times and circumstances will help us to understand particular contemporary ecological challenges.

## ESC251

### **Environmental Document Writing and Review**

Semester: Spring. Semester Hours: 3.

This course will help participants learn to identify the writing and editing requirements unique to environmental and National Environmental Policy Act (NEPA) documents including making graphics, writing chapters, and reviewing documents for accuracy. Participants will also practice interdisciplinary team skills as they relate to each phase of the analysis and documentation process. Students will also learn how to review the full range of NEPA documents including Environmental Impact Statements (EISs), Environmental Assessments (EAs), Findings of No Significant Impacts (FONSI), and Records of Decisions (RODs). We will also review documents in support of NEPA such as Biological Survey Reports. Participants will concentrate on setting review priorities, reviewing for compliance with the law and for quality and clarity.

Prerequisite: ESC105 or EST101

## ESC280

### **Arctic Ecology-Polar Bears of Churchill**

Semester: Fall. Semester Hours: 3.

This course is designed to expose students to the arctic environment. Lectures will focus on polar bear biology, arctic wildlife management, boreal, tundra and coastal ecology, periglacial geology, sea ice and tides, climate change and polar bears, and Inuit and Eskimo culture. Students will be required to attend a fall break field trip to Churchill, Canada. In Churchill we will search

# Academic Programs

for polar bears and other wildlife and talk to village elders about the challenges of living with North America's largest predator. No prerequisites. Additional travel fee required to cover transportation to Winnipeg, hotel on the way to Winnipeg, roundtrip Winnipeg/Churchill airfare, and food and lodging in Churchill.

## ESC307

### **Advanced Field Botany/Spring Wildflowers**

Semester: Summer. Semester Hours: 4.

Students receive an intensive introduction to the evolutionary relationships of vascular plants and their classification. The course emphasizes plant identification based on use of taxonomic keys and focuses on angiosperm species in the Yellowstone River watershed, particularly the prairie habitats, the Pryor Mountains, the riparian habitats of the Yellowstone, and the foothills of the Beartooth Mountains. Field trips are required. Students in the 300-level course will collect, identify, and prepare a greater number of plants for the herbarium. This course may be taken at the lower-division level or at the upper-division level, but not both.

Prerequisite: BIO112 or ESC105

## ESC314

### **Range Ecology**

Semester: Fall, Alternate Years. Semester Hours: 4.

Range ecology is the study of mixed grass prairies of the West and an introduction to ecological concepts applicable to that area. Topics include historical and current land use, ecosystem responses to change, methods for maintaining natural prairie habitats, the use of prairies as rangelands, and determinations of ecological conditions and trends on rangelands. The laboratory focuses on identification of common prairie plant species and their importance for both wildlife and domestic animals. Three hours of lecture and one two-hour laboratory session per week.

Prerequisite: BIO112, CHM101, and CHM102

## ESC316

### **Geochemistry**

Semester: Spring. Semester Hours: 4.

Scientific literature and other resources will be used to illustrate the current ideas about the mechanisms that control water quality and chemistry in aqueous systems. Lecture topics will include: Hydrogeology, acid-base and reduction-oxidation reactions in natural systems, the geochemistry of metals, stable isotope geochemistry, and case studies of contaminated sites in Montana and throughout the West. Laboratory exercises will include basic sample collection, measurement of major ion concentration, and geochemical modeling with several field exercises. Three hours of lecture and two hours of laboratory per week.

Prerequisite: GEO101, CHM101

## ESC317

### **Bird Conservation and Research**

Semester: Spring, Alternate Years. Semester Hours: 4.

This is a field and laboratory course covering bird evolution, life histories, behavior, populations and conservation. Lab time will focus on survey techniques and bird observations and identification in the field. The primary objective of this course is to teach students the role of evolution in the development of special adaptations of bird characteristics and systems as well as the importance of conservation of populations and bird habitat around the world. Specific case studies will examine complex

conservation issues of North America species. Students will be required to design a field study project to address a bird conservation question.

Prerequisite: ESC 105 or BIO 112 and ESC 209

## ESC321

### **Introduction to Geographic Information Systems**

Semester: On Demand. Semester Hours: 4.

This course introduces students to the theory and practical application of geographic information systems (GIS). Topics include fundamentals of cartography, GIS data types, data input, GIS database structure and management, analysis of spatially distributed data, and report preparations using GIS.

Prerequisite: MAT100 and a previous science course

## ESC325

### **Wetlands and Riparian Ecology**

Semester: Fall, Alternate Years. Semester Hours: 4.

The biology and chemistry of wetlands is studied in this course. Topics include the investigation of wetland structure, wetland functions, and the ecological value of wetlands. The laboratory introduces protocols for analyzing wetland plant communities and includes a field study of a wetland in the Billings community. Students learn legally acceptable methods for determining wetland boundaries. The course examines the ecology of rivers and compares differences in hydrological processes of rivers and wetlands. Three hours of lecture and one two-hour laboratory session per week.

Prerequisite: BIO112, CHM101, and CHM102

## ESC330

### **Wildlife Management and Conservation**

Semester: Spring, Alternate Years. Semester Hours: 4.

A multidisciplinary approach to conservation and management issues encompassing genetics to ethics. Topics include population genetics, evolutionary mechanisms, biodiversity, reserve design, and re-introduction strategies. Written reports and oral presentations required. Additional fee required.

Prerequisite: BIO112 and ESC105

## ESC345

### **Soil Science**

Semester: Fall, Alternate Years. Semester Hours: 4.

This course provides an introduction to the physical, chemical, and biological properties of soils; soil formation and classification; nutrient cycling; and land resource planning and protection. The laboratory includes field trips. Three hours of lecture and one two-hour laboratory session per week.

Prerequisite: CHM101, GEO101 and GEO104

## ESC401

### **Application of Geographic Information Systems**

Semester: Spring. Semester Hours: 4.

Application of GIS is used to produce a professional report using real world data in cooperation with a business, an industry, or a government agency. Software and projects vary from year to year. Three two-hour sessions per week.

Prerequisite: ESC321



# Academic Programs

## ESC436

### Yellowstone Winter Ecology

Semester: Spring, Alternate Years. Semester Hours: 4.

This course focuses on the ecology of Yellowstone National Park, particularly emphasizing the complex interactions of large mammals with the forest and range plant communities. Students explore the methods used by the National Park Service to establish natural resource policies and examine the Park's scientific research priorities. Two extended weekend laboratories provide research opportunities that include topics in winter ecology and aspects of the role of large mammals in the Yellowstone ecosystem. Additional fee required.

Prerequisite: ENG119, ENG120, and BIO112

## ESC450

### Internship

Semester: On Demand. Semester Hours: 1-4.

A maximum of three semester hours can be counted toward a major in environmental studies or a major or minor in environmental science. This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. Contract is required.

Prerequisite: junior or senior standing

## ESC490

### Seminar

Semester: On Demand. Semester Hours: 2-3.

Selected topics in environmental sciences or environmental studies are explored.

## ESC495

### Advanced Field Research Techniques

Semester: Fall and Spring. Semester Hours: 4.

Designed as an advanced research techniques class, this course takes students through the process of research development. The focus will be on more in-depth student developed field projects that will include several overnight field trips in Montana. Additional skills learned will include marking and population assessments, survey and trapping techniques (such as electro-fishing) or for specialized species (such as bats), and radio-telemetry and tracking. The development of independent or team projects implemented locally will be required for the latter portion of the semester.

Prerequisite: ESC209 or BIO 306

## ESC499

### Independent Study

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## Environmental Studies

*Jennifer Lyman, Professor*

*David Strong, Professor*

*Kayhan Ostovar, Associate Professor*

*Lucas C. Ward, Visiting Assistant Professor*

The environmental studies major provides students with an interdisciplinary opportunity to investigate the relationship between humans and their environment. As distinct from Environmental Science, the curriculum in Environmental Studies is based in the arts, humanities, and social sciences, emphasizing the political, economic, and social organization of human cultures in relation to the natural world, as well as the artistic, philosophical, and experiential responses to natural and built environments.

### Major in Environmental Studies

A minimum of 37 credits required. Core requirements:

EST101 Introduction to Environmental Studies  
ESC105 Environmental Science: Sustainable Communities  
ESC209 Field Survey Techniques in Zoology  
ESC490 Seminar  
ENG244 Literature and the Environment  
HST365 American Environmental History  
PHR304 Environment Ethics  
PHR378 Philosophy of Technology and Modern Culture  
POL313 Environmental Politics

Choose one of the following:

ART222 Art History Survey III  
ART243 Digital Photography

Choose one of the following:

COM355 Mass Media  
COM404 Rhetoric of Protest and Dissent  
ENG355 Mass Media

One additional course chosen in consultation with an Environmental Studies advisor.

## Environmental Studies courses

### ART222

#### Art History Survey III

Semester: Fall. Semester Hours: 3.

This is a general survey of art historical periods and movements during the 17th, 18th, 19th, 20th, and 21st centuries. Study focuses on the materials, techniques, style, historical context, aesthetics, and criticism of this wide variety of art. Traditional art historical methods of slide lecture, discussion, written exams, and papers are de rigeur as well as exploration of relevant topics on the Internet and via the course website. Though sequential, ART220, ART221, and ART222 may be taken separately.

### ART243

#### Digital Photography

Semester: On Demand. Semester Hours: 3.

This course introduces the process of digital photography. Camera handling, editing techniques, and the elements of design are covered. Students are encouraged to pursue this art form in the surrounding community and landscape.

### COM355

#### Mass Media

Semester: Spring, Alternate years.. Semester Hours: 3.

This course explores how communication media, whether smoke signals, newspapers, television or the Internet, influence human communication. We are different people than in the past because we can instantaneously reach people around the globe.

# Academic Programs

With each change in technology, communication changes. These changes alter what it means to be human. Students must be able to understand the power of media to better manage its influence in their personal and professional lives.

Prerequisite: COM102

## COM404

### **Rhetoric of Protest and Dissent**

Semester: Spring, Alternate years.. Semester Hours: 3.

Throughout history, people have protested injustice, prejudice, inhumanity, and colonialism. They have tried, and even sometimes succeeded, in protesting without violence. Persuasion is an alternative to physical aggression. This course examines why and how protest occurs, the challenges protesters face rhetorically, and the available options from which protesters can choose. Students will emerge with an appreciation of how difficult protest is and how important it is for a vital society.

Prerequisite: COM102, COM240

## ENG244

### **Literature and the Environment**

Semester: Spring, Alternate years.. Semester Hours: 3.

This course is a comparative study of the environmental imagination as expressed in literature. By reading and discussing a wide range of literary texts, students investigate timeless and more urgent questions, such as “What is nature?”; “What is our responsibility to the environment?”; “How do various cultures express their relation to the natural world?”.

## ENG355

### **Mass Media**

Semester: Spring, Alternate years.. Semester Hours: 3.

This course explores how communication media, whether smoke signals, newspapers, television or the Internet, influence human communication. We are different people than in the past because we can instantaneously reach people around the globe. With each change in technology, communication changes. These changes alter what it means to be human. Students must be able to understand the power of media to better manage its influence in their personal and professional lives.

## ESC105

### **Environmental Science: Sustainable Communities**

Semester: Fall and Spring. Semester Hours: 4.

An introductory course designed for students entering the environmental sciences and studies program and for other students who would like to take an ecology lab course. Topics address the central concepts of ecology including the physical environment in which life exists. Students will explore the properties and processes of populations and communities, ecosystem dynamics, biogeography and biodiversity, as well as issues in conservation and restoration ecology. In laboratory students will apply these concepts to ecological studies in the natural environment and learn how to present their results in a scientific report. Three hours of lecture and one two-hour laboratory session per week.

## ESC209

### **Field Survey Techniques in Zoology**

Semester: Spring. Semester Hours: 4.

A field and laboratory course covering basic field techniques to survey and inventory areas to assess biodiversity, with an emphasis on Montana mammal, bird, reptile, amphibians and fish

fauna. Topics include species identification, survey and trapping, experimental design, data analysis, and report completion. Once identification and survey skills are learned, field teams will be formed and assigned to survey and inventory local habitats of concern with the goal of helping guide local management and restoration of these habitats. Additional fee required.

## ESC490

### **Seminar**

Semester: On Demand. Semester Hours: 2-3.

Selected topics in environmental sciences or environmental studies are explored.

## EST101

### **Introduction to Environmental Studies**

Semester: Fall. Semester Hours: 3.

This course explores the complexity of environmental issues as approached from the perspectives of the arts, humanities, and social sciences. Since environmental issues are inherently complex, attention is focused on how human beings perceive, understand, and respond to environmental change. Emphasis is placed on developing students' abilities to investigate matters critically and to respond in original, thoughtful, and imaginative ways.

## HST365

### **American Environmental History**

Semester: Fall, Alternate years.. Semester Hours: 3.

This course examines the interrelationship of human society and nature in American history. Topics will include ecology as it relates to European conquest of the Americas, Native American peoples, public lands policies, American national character, technological society, conservation, and the modern environmental movement.

## PHR304

### **Environmental Ethics**

Semester: Spring. Semester Hours: 3.

This course examines the interrelationship of human society and nature in American history. Topics will include ecology as it relates to European conquest of the Americas, Native American peoples, public lands policies, American national character, technological society, conservation, and the modern environmental movement.

## PHR378

### **Philosophy of Technology and Modern Culture**

Semester: Fall, Alternate years.. Semester Hours: 3.

It is often a difficult task to understand one's own culture and age. Recent philosophical work offers profound insights into our age and places these insights within a much wider context.

## POL313

### **Environmental Politics**

Semester: Spring. Semester Hours: 3.

Political problems associated with the human impact on the natural environment: pollution, natural resources, public lands, land use, energy, cultural/social justice, and population.

## Equestrian Studies

*Christi M. Brown, Assistant Professor*

*Amy Neuman, Assistant Professor*

*Scott Neuman, Assistant Professor*

# Academic Programs

*Ray Randall, DVM*

The equestrian studies program at Rocky Mountain College provides the student a venue for his or her passion for horses. The program offers a firm foundation in equitation to increase skills as a rider; a progressive training approach to encourage the student to form a valuable structure for educating a horse using generally accepted training principles; and a solid background in equine management fundamentals. These fundamentals include a broad-based series of courses designed to give each student exposure to the reality of living with and being responsible for horses. From the basic care of the horse through veterinary courses and stable management to responsible breeding program development with selection and reproduction or managing a program of therapeutic riding, the program encourages each student to find his or her place.

When core subjects are met, the student can choose a program increasingly more tailored to his or her interests whether it is teaching, training, writing, business, therapeutic riding, technology implementation, or marketing. Combined with Rocky Mountain College's traditional liberal arts program, students are provided a variety of experiences promoting lifelong learning and an understanding of the world around them. This multifaceted approach not only prepares the equine student to succeed in a complex and ever-changing global equestrian industry but to meet the challenges of life in a world of diversity as well.

Equestrian facility use fees are not included in basic tuition and are charged in addition to tuition, college fees, and other incidental expenses normally charged during registration (see the "tuition and fees" section).

## Major in Equestrian Studies

Students have a choice of one of five options:

### Equitation and Training Option

A minimum of 45 semester hours is required in EQS courses, including:

EQS101 Introduction to Equestrian Studies  
EQS102 Equine Conformation and Selection  
EQS121 Fundamental Horsemanship I  
EQS122 Fundamental Horsemanship II  
EQS201 Equine Preventive Medicine  
EQS300 Reproduction and Growth  
EQS302 Nutrition, Stable and Ranch Management  
EQS321 Advanced Horse Training I  
EQS322 Advanced Horse Training II  
EQS325 Basic Colt Training I  
EQS326 Basic Colt Training II  
EQS402 Equine Marketing  
EQS450 Internship

Choose one of the following:

EQS231/232 Hunter Seat Equitation I / Hunter Seat Equitation II

OR

EQS251/252 Fundamental Horsemanship III / Fundamental Horsemanship IV

Students in this major are strongly recommended to take EQS401, EQS421, and EQS422 as electives.

### Equine Business Option

A minimum of 42 semester hours is required in EQS/BSA/ECO courses, including

EQS101 Introduction to Equestrian Studies  
EQS102 Equine Conformation and Selection  
EQS121 Fundamental Horsemanship I  
EQS122 Fundamental Horsemanship II  
EQS201 Equine Preventive Medicine  
EQS302 Nutrition, Stable and Ranch Management  
EQS402 Equine Marketing  
EQS450 Internship  
BSA201 Principles of Accounting I  
BSA202 Principles of Accounting II  
ECO202 Principles of Microeconomics

Nine hours of upper-division electives in business administration and accountancy or economics. Other recommended courses include EQS231 and EQS232 or EQS251 and EQS252.

### Equine Writing and Publications Option

A minimum of 45 semester hours is required in EQS/ENG/COM courses, including:

EQS101 Introduction to Equestrian Studies  
EQS102 Equine Conformation and Selection  
EQS121 Fundamental Horsemanship I  
EQS122 Fundamental Horsemanship II  
EQS201 Equine Preventive Medicine  
EQS302 Nutrition, Stable and Ranch Management  
EQS310 Equine Journalism  
EQS402 Equine Marketing  
EQS450 Internship  
ENG319 Creative Nonfiction Writing  
ENG325 Professional Writing  
ENG365 Journalism  
ENG490W Seminar in Writing  
COM355 Mass Media  
COM402 Interviewing

Other recommended courses include EQS231 and EQS232 or EQS251 and EQS252.

### Riding Instructor Option

A minimum of 45 semester hours is required in EQS/PSY/EDC courses, including:

EQS101 Introduction to Equestrian Studies  
EQS102 Equine Conformation and Selection  
EQS121 Fundamental Horsemanship I  
EQS122 Fundamental Horsemanship II  
EQS201 Equine Preventive Medicine  
EQS231 Hunter Seat Equitation I  
EQS232 Hunter Seat Equitation II  
EQS321 Advanced Horse Training I  
EQS322 Advanced Horse Training II  
EQS401 Techniques of Teaching Riding  
EQS402 Equine Marketing  
EQS405 Advanced Techniques of Teaching Riding  
EQS450 Internship  
EDC302 Educational Psychology  
PSY312 Behavior Management

Recommended electives are EQS325, EQS326, EQS421, and EQS422.

# Academic Programs

## **Therapeutic Riding Option**

A minimum of 52 semester hours in EQS/EDC/PEH courses are required, including:

EQS100 Volunteer Experience in Therapeutic Riding  
EQS101 Introduction to Equestrian Studies  
EQS102 Equine Conformation and Selection  
EQS121 Fundamental Horsemanship I  
EQS122 Fundamental Horsemanship II  
EQS201 Equine Preventive Medicine  
EQS209 Principles of Therapeutic Riding  
EQS302 Nutrition, Stable and Ranch Management  
EQS309 Advanced Therapeutic Riding Instructor Training  
EQS401 Techniques of Teaching Riding  
EQS405 Advanced Techniques of Teaching Riding  
EQS410 Therapeutic Riding, Issues and Ethics  
EQS450 Internship  
EDC330 Introduction to Teaching Exceptional Learners  
PEH122 First Aid/CPR/Safety Education  
PEH204 Foundations of Human Structure and Function  
PEH315 Motor Learning

Choose one of the following:

EQS251/252 Hunter Seat Equitation I / Hunter Seat Equitation II

OR

EQS231/232 Fundamental Horsemanship III / Fundamental Horsemanship IV

In addition, a minor in psychology must be completed.

## **Minor in Equestrian Studies**

A minimum of 21 semester hours is required, including

EQS101 Introduction to Equestrian Studies  
EQS102 Equine Conformation and Selection  
EQS121 Fundamental Horsemanship I  
EQS122 Fundamental Horsemanship II  
EQS201 Equine Preventive Medicine  
EQS302 Nutrition, Stable and Ranch Management

Choose one of the following:

EQS300 Reproduction and Growth

EQS402 Equine Marketing

## **Equestrian Studies courses**

### **EQS100**

#### **Volunteer Experience in Therapeutic Riding**

Semester: Fall. Semester Hours: 1.

All students interested in entering the therapeutic riding program must first participate in the volunteer experience. Students will volunteer in an established therapeutic riding program.

### **EQS101**

#### **Introduction to Equestrian Studies**

Semester: Fall. Semester Hours: 3.

The student focuses on the basic anatomy and physiology of the horse. Equine evolution, the study of various breeds, and genetics are also emphasized, along with an overview of the horse industry.

### **EQS102**

#### **Equine Conformation and Selection**

Semester: Spring. Semester Hours: 3.

This course focuses on equine structure and the evaluation of how structural anomalies relate to lameness. Students learn and practice selecting horses best suited for intended uses in terms of breed, structure, and temperament.

Prerequisite: EQS101

### **EQS121**

#### **Fundamental Horsemanship I**

Semester: Fall. Semester Hours: 3.

This class introduces the basic theories of horsemanship, the centered seat, and balanced riding. While these theories apply equally to both English and Western disciplines, only Western tack is used. Additionally, students develop strength, agility, and coordination as well as maintain their assigned horse in a show barn atmosphere with emphasis on stall maintenance and safe feeding practices.

### **EQS122**

#### **Fundamental Horsemanship II**

Semester: Spring. Semester Hours: 3.

This class is a continuation of Fundamental Horsemanship I and builds on those skills with further emphasis upon developing proficiency. A logical training progression is established within a variety of Western venues. The emphasis upon maintaining a healthy horse in a show barn atmosphere is continued.

Prerequisite: EQS121

### **EQS201**

#### **Equine Preventive Medicine**

Semester: Fall. Semester Hours: 3.

Students study common equine health practices including parasitology, diseases, pre-purchase examinations, lameness, first aid measures, and the establishment of horse health programs.

Prerequisite: EQS102

### **EQS209**

#### **Principles of Therapeutic Riding**

Semester: Spring. Semester Hours: 3.

In this introductory course to therapeutic riding, students will explore the basic principles of therapeutic riding; medical terminology; physical, cognitive, and sensory impairments; and the use of safety and adaptive equipment. Interaction with therapy students, their parents, and health professionals will be stressed. Students will have the opportunity to participate in a variety of hands-on experiences.

### **EQS214**

#### **Equine Judging**

Semester: Fall. Semester Hours: 3.

Students learn and actively practice the evaluation of horses and riders in various types of competition, including classes in halter, Western pleasure, and hunter under saddle. There is a strong speech and critical thinking component in this course as students learn to develop oral reasons for defending class placement.

Prerequisite: EQS102

# Academic Programs

## **EQS231**

### **Hunter Seat Equitation I**

Semester: Fall. Semester Hours: 3.

Through the development and assessment of rider and horse skill level, this course establishes a training program for starting a horse over fences. Show ring etiquette develops fundamentals for successful competition and deepens the student's understanding of the equine industry.

Prerequisite: EQS122

## **EQS232**

### **Hunter Seat Equitation II**

Semester: Spring. Semester Hours: 3.

This course is a continuation of Hunter Seat Equitation I. By furthering the skills necessary to show a hunter over fences, students gain in strength, balance, and control.

Prerequisite: EQS231

## **EQS251**

### **Fundamental Horsemanship III**

Semester: Fall. Semester Hours: 3.

This course offers a continuation of the skills developed in Fundamental Horsemanship I and II with emphasis on both equitation and training skills, including advanced lateral and collection exercises, extension and collection at all gaits with and without contact, spinning, and stopping. Students expand equitation skills through rigorous physical work with and without stirrups and through riding multiple horses. Attention is given to skills involved in riding and the presentation of the show horse. Students are exposed to show ring etiquette, terminology, and riding styles as they work on a variety of specific events including Western riding, trail, hunter under saddle, Western pleasure, equitation, horsemanship, reining, and showmanship. This course features horses ridden in Western tack, emphasizing Western riding strategies.

Prerequisite: EQS122

## **EQS252**

### **Fundamental Horsemanship IV**

Semester: Spring. Semester Hours: 3.

This course is a continuation of Fundamental Horsemanship III featuring English tack and English riding. Students not only ride but evaluate other horse/rider combinations to develop an eye for equine talent as well as equitation skills.

Prerequisite: EQS251

## **EQS300**

### **Reproduction and Growth**

Semester: Spring. Semester Hours: 3.

Anatomy and physiology of reproduction in the horse, endocrinology, principles of artificial insemination, embryo transfer, genetics, breeding systems, application of the scientific method, care and management of breeding stock. This course will be accepted as a biology elective, provided students have completed BIO111, BIO112, CHM101, and CHM102. This course is highly recommended for students pursuing veterinary school or graduate studies in animal science.

Prerequisite: EQS201

## **EQS302**

### **Nutrition, Stable and Ranch Management**

Semester: Fall. Semester Hours: 3.

The student masters the fundamental principles of digestion and equine nutrition, learning the management skills necessary to run a successful stable, including establishing a budget and record keeping.

Prerequisite: EQS102 and junior standing

## **EQS309**

### **Advanced Therapeutic Riding Instructor Training**

Semester: Fall. Semester Hours: 2.

All aspects of being a therapeutic riding instructor, including teaching to the appropriate therapeutic level of a student's physical and cognitive abilities, the precautions and contraindications to therapeutic riding, therapy student assessment and program development, and facility and therapy horse management. Students will organize and teach lessons, assign students to horses and volunteers, and maintain progress notes.

Prerequisite: PEH122, EQS100, EQS209

## **EQS310**

### **Equine Journalism**

Semester: Fall. Semester Hours: 3.

The student writes articles suitable for publication in equine publications. Attention is also given to page and ad layout and ad copy.

Prerequisite: ENG120

## **EQS315**

### **Intermediate Equine Judging**

Semester: Fall. Semester Hours: 3.

Students engage in and practice the evaluation of horses and riders for competition on an advanced level, including classes in trail, Western riding, reining, hunter hack, and working hunter. Students continue developing oral reasoning and presentation skills for defending class placement.

Prerequisite: EQS214

## **EQS321**

### **Advanced Horse Training I**

Semester: On Demand. Semester Hours: 3.

Students learn and practice advanced training procedures and the selection of proper horses for individual events, perfecting both the rider's and the horse's skills to an intermediate competitive level.

Prerequisite: junior standing, EQS121, EQS122, EQS231, EQS232, EQS325, and EQS326

## **EQS322**

### **Advanced Horse Training II**

Semester: On Demand. Semester Hours: 3.

This course is a continuation of Advanced Horse Training I with a higher level of skill and expertise employed.

Prerequisite: junior standing and EQS321

## **EQS325**

### **Basic Colt Training I**

Semester: Fall. Semester Hours: 3.

Through practical application, the student develops skills and techniques by following a logical progression of training for a two- or three-year-old colt in a stress-free atmosphere.

# Academic Programs

Prerequisite: sophomore standing and EQS122

## **EQS326**

### **Basic Colt Training II**

Semester: Spring. Semester Hours: 3.

This course, a continuation of Basic Colt Training I, will cover the assessment of a colt's capabilities and begin advanced training techniques.

Prerequisite: sophomore standing and EQS325

## **EQS400**

### **Advanced Reproduction**

Semester: On Demand. Semester Hours: 3.

The student focuses on common breeding problems such as organizing and operating a routine teasing program, natural breeding, artificial insemination, and improving conception rates. Students engage in practical application in this course. Class is limited to six students. This course is highly recommended for students pursuing veterinary school or graduate studies in animal science.

Prerequisite: EQS300

## **EQS401**

### **Techniques of Teaching Riding**

Semester: Fall. Semester Hours: 3.

Students practice methods of teaching riding and engage in practical experience as a tutor or aide in teaching basic equitation. The student also learns and practices the scope and sequence of planning lessons and teaching student skills. There is a strong speech component in this course.

Prerequisite: EQS121, EQS122, EQS231, and EQS232; EQS325 and EQS326 also recommended

## **EQS402**

### **Equine Marketing**

Semester: Spring. Semester Hours: 3.

This course features the promotion of the horse and individual as well as equine-related business ventures through the introduction and refinement of the student's performance in industry specific marketing skills. The skills covered in the course include: photography and videography of the horse, still image and video editing, video reproduction and publishing, image branding, written and verbal skills for promotion, and advertisement creation for various channels from web-based marketing to print. Additionally, students will research current market trends for pricing, create and implement a marketing plan for a horse. This is a capstone class for equine business majors. Students must have ready access to equipment for both still and moving image capture and editing.

Prerequisite: junior standing

## **EQS405**

### **Advanced Techniques of Teaching Riding**

Semester: Spring. Semester Hours: 3.

The student furthers his or her teaching techniques through experience as an equitation tutor or aide with an emphasis upon the development of riding activities such as clinics or riding camps. There is a strong speech component in this course.

Prerequisite: EQS401

## **EQS410**

### **Therapeutic Riding, Issues and Ethics**

Semester: Spring. Semester Hours: 2.

Students will focus on the administration of and teaching in a therapeutic riding program, including organization, emergency procedures, safety regulations, risk management, documentation, and written policies and procedures. Students will learn to provide proper documentation for recognized legal business structures and organization including those for corporations and 501(c)3's as well as the standards for NARHA centers. Students with the required amount of instructional hours will be prepared to take the NARHA national registered instructor examination upon completion. This course includes a senior project.

## **EQS415**

### **Advanced Equine Judging**

Semester: Fall. Semester Hours: 3.

Students review the principles learned in Equine Judging I and Intermediate Equine Judging and broaden their knowledge of competition rules. They further develop oral and thinking skills for the presentation of reasons at the intercollegiate competitive level. There may be opportunities for intercollegiate judge competition.

Prerequisite: EQS214 and EQS315

## **EQS421**

### **Advanced Horse Training III**

Semester: On Demand. Semester Hours: 3.

For the furthering of training and riding skills, this course leads the student toward a more independent development of his or her own training program. Students are expected to develop, organize, and produce a training plan suited to their specific goals.

Prerequisite: senior standing

## **EQS422**

### **Advanced Horse Training IV**

Semester: On Demand. Semester Hours: 3.

This course is a continuation of Advanced Horse Training III.

Prerequisite: EQS421

## **EQS450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. The internship should relate to the student's major or minor area of study. Contract is required.

Prerequisite: junior or senior standing

## **EQS499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

# Academic Programs

## Foreign Languages & Literature

The program uses the four basic language acquisition skills of reading, writing, listening, and speaking to learn at each successive level. In addition to being instrumental and vital to learning another language, honing these skills also advances English language development.

The program is integral to the liberal arts mission of the College. Students discover that one cannot categorize meaning into compartmentalized boxes. Language and the culture in which those words are imbedded help students comprehend economic systems, the fine arts, and history/political science.

The aim of the foreign languages and literatures program is for the student to be able to read, write, and converse with increasing ability as he or she moves to the next course. The goal of this gradual improvement is to make the student an effective communicator in a native-speaking environment. Toward this end, Rocky Mountain College strives to make opportunities available for travel and study abroad.

The foreign languages and literatures program offers a minor in Spanish. Courses in Italian language and culture are offered on demand. French courses will be offered on demand. Opportunities to study other languages, such as Greek, are periodically available.

### Minor in Spanish

This program is currently under moratorium and is not accepting new students.

A minimum of 20 semester hours is required, six of which credits must be upper-division hours.

## Foreign Languages & Literature courses

### FRN131

#### Beginning French I

Semester: Fall. Semester Hours: 4.

This is a beginning French course. Emphasis is on basic language structure, pronunciation, and simple conversation.

### FRN132

#### Beginning French II

Semester: Spring. Semester Hours: 4.

Continuing development of basic skills with an introduction to the historical and cultural background of France.

### FRN231

#### French Conversation and Composition

Semester: On Demand. Semester Hours: 3.

Selected readings on aspects of French arts and sciences with continued practice in writing and conversation.

Prerequisite: FRN132 or appropriate background in French

### FRN250

#### Culture and Civilization

Semester: On Demand. Semester Hours: 3.

This course provides an overview of the culture of France through representative literary works of authors from the continent. Works examined will include short stories, poetry and ex-

cerpts of longer works. The course will consider the culture and historical milieu, and students will discuss, present and write about both the literary movements and corresponding areas of art, music, and popular culture.

Prerequisite: FRN231 or appropriate background in French

### FRN301

#### The Culture and Literature of France and Francophone Countries

Semester: On Demand. Semester Hours: 3.

A continuation of French culture explored in FRN250, with the addition of a cultural broadening into the diversity of other francophone countries through literature, art, history and music and modern media. Students will expand their knowledge of continental French culture, then compare and contrast it to cultures around the world influenced by French: Africa, island nations (Haiti), Canada, and more. Students will research an area of interest from specific countries and report to the class.

Prerequisite: FRN250 or appropriate background in French

### GRK131

#### Introduction to 5th-Century B.C.E. Attic Greek I

Semester: On Demand. Semester Hours: 4.

Students will learn the ancient Greek language of Thucydides, Plato, Herodotus, Homer, and the 5th-century dramatists. This course is also excellent preparation for students who wish to read New Testament (Koine) Greek.

### GRK132

#### Introduction to 5th-Century B.C.E. Attic Greek II

Semester: On Demand. Semester Hours: 4.

Students will continue to learn the ancient Greek language of Thucydides, Plato, Herodotus, Homer, and the 5th-century dramatists. This course is also excellent preparation for students who wish to read New Testament (Koine) Greek.

Prerequisite: GRK131

### ITN131

#### Beginning Italian I

Semester: Fall. Semester Hours: 4.

This course provides an introduction to Italian speech, language, culture, and communication through listening, speaking, reading, and writing. The approach integrates culture and language with emphasis on vocabulary acquisition and basic grammatical structures. Class work emphasizes participation, group work, and opportunities for hearing and speaking Italian.

### SPN131

#### Beginning Spanish I

Semester: Fall. Semester Hours: 4.

This course provides an introduction to Spanish speech, language, culture, and communication through reading, writing, listening, and speaking. A culture- and language-integrated approach with an emphasis on vocabulary acquisition and basic grammatical structures is used.

### SPN132

#### Beginning Spanish II

Semester: Spring. Semester Hours: 4.

This course builds on the foundation established in SPN131. Through the use of the four language skills of reading, writing, listening, and speaking, basic grammar skills, vocabulary acqui-

# Academic Programs

sition, and cultural readings will increase. Greater emphasis is placed on oral and written expression.

Prerequisite: SPN131

## SPN211

### Intermediate Spanish I

Semester: Fall. Semester Hours: 3.

This course utilizes the methodical review and practice of basic vocabulary and grammatical structures, combined with the integrated development of proficiency in the four language skills. Expansion of cultural knowledge and functional vocabulary will occur through intermediate-level reading and discussions. Emphasis is on intermediate-level grammar and reading proficiency.

Prerequisite: SPN132

## SPN212

### Intermediate Spanish II

Semester: Spring. Semester Hours: On demand. 3.

As a continuation of SPN211 in which students continue to review, expand, and practice basic vocabulary and grammatical structures, while more advanced grammatical structures are introduced and practiced. Expansion of cultural knowledge and functional vocabulary continues through increasingly advanced intermediate-level readings and discussions. Emphasis is on intermediate-level grammar, reading, and communicating proficiency.

Prerequisite: SPN211

## SPN311

### The Art of Spanish Conversation and Composition

Semester: On Demand. Semester Hours: 3.

This course, conducted in Spanish, is an interactive communication course where students will work with the syntax and the syntactical analysis of spoken and written Spanish. Pronunciation, vocabulary, and fluency will be enhanced through textbook and simulated situations as well as oncampus and off-campus excursions. These real-life situations and dialogue encounters will be used to encourage conversation and elicit discussion, and students will follow up on the situations by writing well-formulated and coherently arranged written works describing their experience. These essays will be marked, shared with the class, and then analyzed for correctness. This analytical exercise will be done individually as homework and then collectively as class discussions. In addition to readings, research, and discussion, students will make oral presentations in class or at special events.

Prerequisite: SPN131, SPN132, and SPN211

## SPN315

### Survey of Spanish and Hispanic Literature

Semester: On Demand. Semester Hours: 3.

In order to truly understand the cultures and people of a certain language, one must study their literature. The richness of a language can be better appreciated when viewed through a variety of literary genres. This course provides an overview of Spanish and Hispanic literature, focusing on representative works by authors such as Octavio Paz, Isabel Allende, Carlos Fuentes, and Pablo Neruda.

Prerequisite: SPN131, SPN132, and SPN211

## SPN321

### Cultures and Literature of Latin America

Semester: On Demand. Semester Hours: 3.

This course provides an introduction to the richness and diversity of the different countries and cultures of Latin America through their writers. Forms of expression and of preserving knowledge used by ancient civilizations to contemporary writers will be explored. Carvings, ancient writings, short stories, and excerpts from novels and plays will be studied via both written works and film. Students will take part in classroom discussions as well as write analytical essays in Spanish.

Prerequisite: SPN131, SPN132, and SPN211

## SPN322

### Culture and Literature of Spain

Semester: On Demand. Semester Hours: 3.

This course provides an overview of the culture of Spain through representative literary works of peninsular authors. Works will be examined from the Middle Ages, the Siglo de Oro, and contemporary authors, including an introduction to literary genres. Poetry, short stories, and excerpts of longer works will be studied, via both written works and film. Students will take part in classroom discussions as well as write analytical essays in Spanish.

Prerequisite: SPN131, SPN132, and SPN211

## SPN450

### Internship

Semester: On Demand. Semester Hours: 1-12.

Students are provided with an on-site, hands-on language experience where students are paired with schools, churches, businesses, government, and/or non-profit organizations in the Billings area, the state(s) or abroad. Contract is required. Contact and feedback will be maintained throughout the course. The student must arrange the internship in agreement with the instructor and the office of career services.

Prerequisite: SPN131, SPN132, and SPN211 and junior or senior standing

## Geology

*Thomas J. Kalakay, Associate Professor and O. A. Esther T. Seager, Chair in Geology*

*Derek Sjostrom, Assistant Professor*

*Emily Geraghty Ward, Assistant Professor*

The science of geology integrates physics, chemistry, mathematics, and biology in order to better understand the planet earth. Students typically choose geology because of an interest in the natural world and a desire to work outdoors. Some geologists explore for energy, mineral, and water resources; some evaluate the potential hazards of earthquakes, floods, landslides, and volcanic eruptions; and others locate, contain, or remove pollutants. The geology program prepares students for professional careers in the geosciences and provides the background required for graduate studies. The program offers a major and a minor in geology. A geology emphasis is also offered with the environmental science degree.

The geology program is broadly based in the traditional geologic disciplines with an emphasis on field studies in the Rocky Mountains. Geology majors and minors should expect numerous field trips that require camping and sometimes strenuous



# Academic Programs

hiking in mountain settings. Rocky Mountain College geology students work on independent study/research projects with individual faculty. Students have access to state-of-the-art laboratories and analytical equipment within the geology department and through collaboration with other academic institutions.

## Major in Geology

A minimum of 53 semester hours is required, including

GEO101/104 Fundamentals of Geology  
GEO204 Earth Materials I  
GEO218 Evolution of the Earth  
GEO302 Stratigraphy and Sedimentology  
GEO305 Earth Materials II  
GEO343 Field Methods for Geoscientists  
GEO350 Applied Field Geology  
GEO411 Structural Geology and Tectonics  
GEO490 Geology Field Seminar  
CHM101 General Chemistry I

Choose one of the following:

PHS101 Fundamental Physics I

PHS201 General Physics I

Choose one of the following:

MAT175 Calculus I

MAT210 Probability and Statistics

12 semester hours from

GEO 245 Geoscience Research Methods

GEO301 Paleontology

GEO310 Geomorphology

GEO320 The Geology of Natural Resources

GEO345 Practical Geoscience Research I

GEO415 Hydrogeology

GEO445 Practical Geoscience Research II

GEO483 Thesis in Geology

or other courses approved by the geology faculty

## Minor in Geology

A minimum of 19 semester hours is required:

GEO101/104 Fundamentals of Geology

GEO204 Earth Materials I

GEO302 Stratigraphy and Sedimentology

GEO343 Field Methods for Geoscientists

IDS243 Scientific Writing and Analysis

Plus four semester hours of geology electives approved by the geology faculty (of which at least two semester hours must be upper division).

## Geology courses

### GEO101

#### Fundamentals of Geology

Semester: Fall and Spring. Semester Hours: 3.

This course provides an introduction to the science of earth materials, earth systems, and earth history, including the study of minerals, rocks, volcanoes, earthquakes, rock deformation and metamorphism, weathering, and erosion within the modern paradigm of plate tectonics. Special emphasis is placed on interpreting the geologic landscape and history of the Rocky Mountains through an understanding of Earth processes. Three hours

of lecture and one recommended two-hour laboratory per week, plus field trips. This course fulfills a natural lab science general education requirement if taken concurrently with GEO104.

### GEO104

#### Fundamentals of Geology Laboratory

Semester: Fall and Spring. Semester Hours: 1.

Focus on description of the earth materials and earth systems within the framework of plate tectonic theory. Introduction to identification of minerals, rocks, geologic maps and structures.

Corequisite: GEO101

### GEO204

#### Earth Materials I

Semester: Fall. Semester Hours: 4.

This course involves detailed study of rocks and minerals and the environments in which they form. The course is very hands-on with emphasis placed on the identification of minerals and rocks in hand specimens and under the optical microscope. Three hours of lecture, one two-hour laboratory per week, and occasional all-afternoon field trips.

Prerequisite: GEO101 and GEO104

Corequisite: CHM101

### GEO218

#### Evolution of the Earth

Semester: Spring. Semester Hours: 3.

A survey of the major geologic events that have shaped the Earth through time, techniques for telling time geologically, and the connections between the evolution of life and geologic processes and/or events. Special attention will be given to the regional geologic and environmental history of Montana and the surrounding area. This course will fulfill the non-lab science General Education Requirement for non-Geology/Environmental Science majors. Additionally, this course will provide a temporal context for many geologic features and concepts for geology majors and minors. Three hours of lecture per week and several day- or weekend- long field trips to examine local geologic features will be required.

### GEO245

#### Geoscience Research Methods

Semester: Fall. Semester Hours: 2.

Sophomore level course intended for Geology majors that plan to conduct an undergraduate research project. Students will be exposed to the fundamentals of Geoscience research. Topics will include research hypothesis generation, literature searches, scientific literature interpretation, data collection, and the basics of presenting findings in written and oral formats. Students must apply for acceptance to the course. Students who complete this course are eligible to enroll in Practical Geoscience Research I. Prerequisite: Sophomore standing, GEO 101, GEO 104, GEO 280, and permission of instructor.

### GEO301

#### Paleontology

Semester: On Demand. Semester Hours: 4.

This course explores the morphology, classification, paleoecology, biogeography and biostratigraphy of important fossil groups. Three hours of lectures and one two-hour laboratory per week, plus fossil collecting trips.

Prerequisite: GEO101, GEO104, and GEO 204

# Academic Programs

## **GEO302**

### **Stratigraphy and Sedimentology**

Semester: Fall, Alternate Years. Semester Hours: 4.

This course provides an introduction to the properties, classification, depositional environments, and diagenesis of sediments and sedimentary rocks and their stratigraphic nomenclature and correlation. Field trips required. Three hours of lecture and one two-hour laboratory per week.

Prerequisite: GEO204 and GEO343

## **GEO305**

### **Earth Materials II**

Semester: Spring. Semester Hours: 4.

Build on skills learned in Earth Materials I with emphasis on origin and makeup of igneous and metamorphic rocks. Recognition, description, and classification using hand specimen and optical microscopy. Textures, occurrences, and processes are emphasized in practical exercises. The course provides an introduction to geochemical data and field occurrences of igneous and metamorphic rocks. Three hours of lecture, one two-hour laboratory per week, and occasional all-afternoon field trips. Final project is a poster presentation involving literature review and synthesis of a major igneous or metamorphic region (e.g., Yellowstone, Hawaii, Beartooth Mountain Range).

Prerequisite: GEO204

## **GEO310**

### **Geomorphology**

Semester: Annually. Semester Hours: 4.

Students study landforms and the processes that create them. Topics include surface processes of erosion and deposition by rivers, glaciers, wind, waves, and mass wasting. Field trips required. Three hours of lecture and one two-hour laboratory per week.

Prerequisite: GEO305 and GEO343

## **GEO316**

### **Geochemistry**

Semester: Spring. Semester Hours: 4.

Scientific literature and other resources will be used to illustrate the current ideas about the mechanisms that control water quality and chemistry in aqueous systems. Lecture topics will include: Hydrogeology, acid-base and reduction-oxidation reactions in natural systems, the geochemistry of metals, stable isotope geochemistry, and case studies of contaminated sites in Montana and throughout the West. Laboratory exercises will include basic sample collection, measurement of major ion concentration, and geochemical modeling with several field exercises. Three hours of lecture and two hours of laboratory per week.

Prerequisite: GEO101, CHM101

## **GEO320**

### **The Geology of Natural Resources**

Semester: Spring, Alternate Years. Semester Hours: 4.

This course involves the study of geologic processes that produce mineral, coal, crude oil and natural gas (e.g. coalbed methane) deposits and environmental issues associated with their extraction and use. Emphasis is placed on regional deposits with field trips to appropriate sites. Two hours of lecture per week and field trips.

Prerequisite: GEO101 and GEO104

## **GEO330**

### **Paleoclimate and Global Change**

Semester: Spring. Semester Hours: 3.

This course is designed for Geology majors, Geology minors, upper-level Environmental Science, and other upper level science majors with interest in the climate of the Earth throughout its history. Scientific literature and other resources will be used to illustrate the current ideas about the mechanisms that drive Earth's climate system on the plate tectonic timescale, glacial timescale, and short-term timescale. Topics will include: Earth's climate system, paleoclimate proxies and paleothermometers, atmospheric chemistry and climate, controls and effects of oceanic circulation on climate, the effects of geologic features on climate (volcanoes, supercontinents, ice sheets, etc), and the effects of biologic organisms on climate and vice versa. Three hours of lecture per week.

Prerequisite: GEO101, CHM101

## **GEO343**

### **Field Methods for Geoscientists**

Semester: Fall. Semester Hours: 2.

This practical course in basic field techniques focuses on the use of the fundamental tools of geologic field work including topographic and geologic maps, air photos, the Brunton compass, hand-held GPS, and Jacob's staff. Students draft cross-sections, geologic maps, and stratigraphic columns, and prepare geologic reports using proper scientific writing and data analysis techniques. This course should be taken during sophomore or junior year. One hour of lecture and a two-hour laboratory per week. This course does not serve as a substitute for GEO350 or equivalent. Students should expect several mandatory field trips. Some will require camping and strenuous hiking in mountain settings. Prerequisite: GEO101, GEO104 and MAT110 or satisfactory score on a math placement exam

## **GEO345**

### **Practical Geoscience Research I**

Semester: Fall. Semester Hours: 2.

Junior level course for students that have completed Geoscience Research Methods and have initiated an undergraduate research project. Topics will include a continuation of the concepts introduced in GEO 245 tailored to the students' specific research project. Emphasis will be on identifying appropriate methods of data collection, manipulation, and presentation. Students will meet regularly as a group for discussion and literature review and one-on-one with a faculty mentor.

Prerequisite: GEO 245

## **GEO350**

### **Applied Field Geology**

Semester: Summer, On Demand. Semester Hours: 6.

Must be taken through another academic institution and approved by RMC academic advisor prior to enrollment in the course. An approved course must have the following components: Geologic mapping on topographic and aerial photograph bases, use of the geologic compass as a mapping and field surveying tool, coverage of a wide variety of rock types and geologic setting, and use of hand-held GPS. Students will also learn the preparation and interpretation of geologic maps and cross sections, and the measurement and interpretation of stratigraphic sections. A special emphasis is placed on using appropriate

# Academic Programs

methods to solve a variety of complex geologic problems. Five or six weeks. Additional field fee required.

Prerequisite: GEO302, GEO305, GEO343, GEO411

## **GEO380**

### **Special Topics: Oil and Gas Geology**

Semester: Spring. Semester Hours: 4.

A lecture and laboratory course designed for Geology majors and minors. Course materials will provide an introduction to oil and gas geology, illustrating the various processes that take place from petroleum source to sink. Lectures will focus on the generation of oil and gas, the nature of source rocks and reservoirs, exploration of petroleum traps, as well as drilling and production. Special consideration will be given to regional oil and gas fields in Montana, Wyoming, and North Dakota. Laboratory exercises will include basic rock and mineral description, geologic map and seismic interpretation, and data analysis. Assignments will focus on weekly reading and laboratory assignments, as well as several day or multi-day field trips.

Prerequisite: Either GEO101/104 or GEO105, CHM101

## **GEO411**

### **Structural Geology and Tectonics**

Semester: Annually. Semester Hours: 4.

This course involves the study of rock deformation at all scales, from microscopic analysis of fault rocks to mountain building processes. Topics include the classification and characterization of structural elements such as faults, folds, foliations and lineations. Emphasis is placed on methods of structural analysis including stereographic projection, construction of accurate cross sections, and kinematic analysis. Three hours of lecture, one two-hour laboratory per week, and occasional all-afternoon field trips. Final project is a poster presentation involving literature review and synthesis of a major orogenic belt.

Prerequisite: GEO204, GEO343, MAT110 or satisfactory score on a math placement exam

## **GEO415**

### **Hydrogeology**

Semester: On Demand. Semester Hours: 4.

Students explore the qualitative and quantitative relationships among geologic materials, geologic processes, and water. Includes precipitation, evapotranspiration, runoff, streamflow, aquifers, groundwater flow, wells, water chemistry, water quality, and contamination. Field trips required. Three hours of lecture and one two-hour laboratory per week.

Prerequisite: GEO101, GEO104, and MAT175

## **GEO445**

### **Practical Geoscience Research II**

Semester: Fall. Semester Hours: 2.

Senior level course for students that have completed Practical Geoscience Research I and are in the final stages of an undergraduate research project. Topics will include written and oral presentation skills and strategies and research grant proposal preparation. Students will meet regularly as a group for discussion and literature review and one-on-one with a faculty mentor. Additionally, students will meet with and serve as mentors for students in GEO 245 and GEO 345.

Prerequisite: GEO 345

## **GEO450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

This course is a guided experience either in industry or governmental work or as a teaching assistant in Geology. The student must arrange the internship in agreement with the instructor and the office of career services. The internship should relate to the student's major or minor area of study. Pass/no pass grading. Contract is required.

Prerequisite: junior or senior standing and permission of instructor

## **GEO483**

### **Thesis in Geology**

Semester: On Demand. Semester Hours: 3.

This course provides research in geology resulting in a formal written paper, oral presentation, and approval by faculty.

Prerequisite: junior or senior standing and permission of professor

## **GEO490**

### **Geology Field Seminar**

Semester: On Demand. Semester Hours: 1-4.

This capstone course in the geology degree program combines literature reviews with local field research. The focus is on collection and synthesis of field data in order to solve geologic problems. Field skills along with oral and/or written presentations are emphasized. All field trips are mandatory. These trips will involve hiking, camping and fairly strenuous outdoor activities in mountainous terrain.

Prerequisite: Senior standing in geology or permission from instructor.

## **GEO499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## **History & Political Science**

*Timothy Lehman, Professor*

*Matthew O'Gara, Associate Professor*

*Jenifer Parks, Assistant Professor*

The program in history and political science prepares students for professional work in the disciplines and supports the liberal arts mission of the College. Whether serving the major or a general education requirement, courses are characterized by attention to careful reading of texts, analysis of important issues of interpretation and meaning, and effective writing. Most classes are moderate in size, which allows ample opportunity for discussion and the development of critical thinking. These habits of mind are essential for success in professional life and prepare students for an active and engaged life as a citizen of our region, the nation, and the world.

The history and political science majors prepare students for graduate study or for careers in teaching and public service. In recent years, the program has sent students to law school,

# Academic Programs

careers in teaching, graduate study in history and political science, political consulting, and careers in government and public service.

## Major in History

A minimum of 31 semester hours, including at least two courses in world or European history, at least two courses in American history, HST/POL490, HST236/POL231 and a series of electives chosen in consultation with faculty in the program.

## Major in History & Political Science

A minimum of 33 semester hours chosen in consultation with faculty in the program, and including HST/POL490.

## Major in History Education

A minimum of 33 semester hours, including at least one course in world history, at least two courses in European history, at least two American history courses, one course in the regional history of the American West, HST422, HST/POL490, and electives chosen in consultation with faculty in the program.

## Minor in History

A minimum of 18 semester hours chosen in consultation with faculty in the program.

## Minor in Political Science

A minimum of 18 semester hours chosen in consultation with faculty in the program.

## Minor in History Education

A minimum of 21 semester hours, including one course in world history, one course in European history, two courses in American history, one course in western regional history, HST/POL490, and electives chosen in consultation with faculty in the program.

## Minor in Political Science (Government) Education

A minimum of 21 semester hours is required, including POL101, POL203, POL321, and 12 semester hours of electives. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the "education" section of the catalog.

## Major in Social Studies Broadfield Education

This major serves those who desire to teach in smaller school districts. Required is a minimum of 25 credits in history, 15 in political science, and 12 psychology. In addition, students must complete the professional education program for secondary teaching as described in the "education" section of the catalog.

Required are the following courses:

History:

Choose one:

HST103 History of Civilization I

or

HST104 History of Civilization II

Choose one:

HST260 Montana and the west

or

HST311 History of Western America

Choose one of the following:

HST303 Reformation, Absolutism, and Enlightenment Europe, 1500-1789

HST304 The Age of Revolution Europe, 1789-1914

HST313 Latin American History

HST/POL490 Seminar

Choose two of the following:

HST211 American History I

HST212 American History II

HST363 Recent America

HST365 American Environmental History

HST422 Methods and Materials: Teaching History/Social Studies in the Secondary School

Choose six credits history electives.

Political Science:

POL101 Introduction to Political Science

POL203 American National, State, and Local Government

POL321 History of Political and Social Thought

Choose six credits of upper-division political science electives.

Psychology:

PSY101 General Psychology

PSY206 Human Development II

Choose six credits of upper-division psychology electives.

## History & Political Science courses

### HST103

#### History of Civilization I

Semester: Fall. Semester Hours: 3.

This course provides a survey of the origin and development of world culture, with an emphasis on basic ideas. The relevant geography of each area will be covered.

### HST104

#### History of Civilization II

Semester: Spring. Semester Hours: 3.

This course provides a survey of the origin and development of world culture, with emphasis on basic ideas. Relevant geography of each area will be covered.

### HST211

#### American History I

Semester: Fall. Semester Hours: 3.

An exploration of vital issues and ideas in American History from the contact of cultures through Reconstruction. Students will consider such issues as the formation of American identities, native responses to European colonization, slavery and race relations, the growth of democracy, and United States political culture from the Revolution through the Civil War.

### HST212

#### American History II

Semester: Spring. Semester Hours: 3.

An exploration of vital issues and ideas in American history from the Gilded Age to the present. Students will consider such issues as industrialism, reform movements, and the role of American in the world.

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## **HST231**

### **Aviation History**

Semester: Spring. Semester Hours: 3.

This course outlines the evolution of aviation from early glider and balloon flights to modern jets and the space age. The course examines the multiple ways that technology and warfare have advanced aviation. Topics of study include specific flights, significant aviators, and particular aircraft that have improved general, commercial, and military aviation. The course discusses current developments and future trends in aviation. This course is cross listed with AVS231.

## **HST232**

### **The World Since 1945**

Semester: On Demand. Semester Hours: 3.

This course explores the major developments in world society from the end of World War II to the present. Major themes of emphasis include the Cold War, decolonization, revolution, nation-building, civil war, social movements, political repression, genocide, terrorism, and globalization.

## **HST236**

### **Research Design**

Semester: Spring. Semester Hours: 1.

An introduction to the fundamentals of academic research. Students will learn to select relevant topics, formulate analytical questions, evaluate scholarly claims, and understand how to properly utilize and synthesize appropriate academic sources. This course is cross listed with POL 231. Note: this course is a prerequisite for the POL/HST490 Seminar.

## **HST260**

### **Montana and the West**

Semester: Spring, Alternate Years. Semester Hours: 3.

Students survey the history of Montana in its regional context, focusing on the nineteenth and twentieth centuries.

## **HST303**

### **Reformation, Absolutism, and Enlightenment Europe, 1500-1789**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course will trace the major political, economic, social, intellectual, and cultural developments in Europe from the late Middle Ages to the eve of the French Revolution.

## **HST304**

### **The Age of Revolution Europe, 1789-1914**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course provides a study of the French Revolution, the Napoleonic era, the movement toward national unification in Germany and Italy, and the impact of political democracy, capitalism, socialism, and imperialism on European culture.

## **HST309**

### **The United States in World Affairs**

Semester: On Demand. Semester Hours: 3.

This course studies United States foreign policy and diplomacy, including other American international activities, from 1917 to the present. This course is cross listed with POL 309.

## **HST311**

### **History of Western America**

Semester: Spring, Alternate Years. Semester Hours: 3.

The development of the American West from the first explorations to the 20th century is examined.

## **HST313**

### **Europe Since 1914**

Semester: Spring, Alternate Years. Semester Hours: 3.

Students examine political, cultural, social, and economic developments in Europe from the beginning of World War I to the present. Themes under examination will include nationalism, industrialization, capitalism, liberalism, imperialism, socialism, secularization and urbanization as well as the period's major wars and revolutions.

## **HST317**

### **Archaeology and History of the Holy Land**

Semester: Summer. Semester Hours: 6.

This course is designed for students participating in the Bethsaida Excavation and tour of selected sites in Israel. Students will engage in activities including excavating at the site; attending pottery reading, laboratory and evening lectures at the kibbutz; learning archaeological methodology; and learning about kibbutz living on the Galilee. Students are also expected to participate in all guided group tours of important sites and museums in Israel.

## **HST324**

### **History of Russia to 1861**

Semester: Fall, Alternate Years. Semester Hours: 3.

Focusing upon the medieval origins of early East Slavic societies and the formation of the Muscovite state and Russian Empire, this course emphasizes the political, economic, social, and cultural components of pre-revolutionary Russia from the tenth through the nineteenth centuries. Special attention will be given to themes of state-building, ethnicity, empire-building, and the role of gender, class, religion, and ideology.

## **HST325**

### **History of Russia and the Soviet Union since 1861**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course offers an in-depth exploration of Russian and Soviet political, social, and cultural history from the abolition of serfdom in 1861 to the present. Themes of emphasis include the rise of democratic and revolutionary movements in the late tsarist period, the Bolshevik Revolution of 1917, industrialization and collectivization, political repression, late Soviet society, Cold War relations, the collapse of the Soviet empire, and post-Soviet society and culture.

## **HST356**

### **Indigenous Responses to Colonialism**

Semester: Fall, Alternate Years. Semester Hours: 3.

An exploration of the variety of military, political, and cultural responses by indigenous people to colonialism, especially in response to settler societies such as those in the Americas, South Africa, Australia, or New Zealand. Topics will include violence, strategies of resistance and accommodation, the formation of racial identities, environmental degradation, and ongoing struggles for autonomy in a global context.

# Academic Programs

## **HST358**

### **Topics in History**

Semester: On Demand. Semester Hours: 3.

An exploration of selected historical ideas, issues, and events. Topics will vary according to instructor interest and student demand, but will focus on central historical texts, important interpretive issues, and emerging scholarship. If the topic is different, students may take this course more than once.

## **HST363**

### **Recent America**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course is an exploration of major currents in American society since 1945, including war, reform, the rise of welfare, civil rights, Vietnam, feminism, and conservative reaction to these issues.

## **HST365**

### **American Environmental History**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course examines the interrelationship of human society and nature in American history. Topics will include ecology as it relates to European conquest of the Americas, Native American peoples, public lands policies, American national character, technological society, conservation, and the modern environmental movement.

## **HST370**

### **Medieval History**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course examines the history of Europe and the Mediterranean world during the Middle Ages (ca. 300- 1500), beginning with the transformations of the Roman world in late antiquity and concluding with the origins of the early modern era. Special attention will be devoted to religious, social, and cultural topics, including the Roman papacy, monastic life, the crusades, the problem of heresy, the rise of persecutions, peasant society, and trends in late medieval spirituality.

## **HST422**

### **Methods and Materials Teaching History/Social Studies in the Secondary School**

Semester: On Demand. Semester Hours: 2.

This course requires focused study and consultation with a public school history or social studies teacher, or other acceptable professional. Hours will be arranged in consultation with the content area professor, the secondary education professor, the student, and the professional mentor. Methods of teaching history/social studies content appropriate for grades 5-12 are explored. Appropriate use of technology and implications of current research in history education are discussed.

Prerequisite: admission to the teacher education program, senior standing

## **HST450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. The internship should relate to the student's major or minor area of study. Contract is required.

Prerequisite: junior or senior standing

## **HST490**

### **Seminar**

Semester: Fall. Semester Hours: 3.

This seminar explores such topics as the methods and materials of research, trends in historical research and writing, and a survey of historiography and the philosophy of history. A major research paper is required. This course is cross listed with POL 490.

Prerequisite: HST236/POL231

## **HST499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater. Prerequisite: junior or senior standing

## **POL101**

### **Introduction to Political Science**

Semester: Fall. Semester Hours: 3.

This course provides an examination of the basic concepts of political science in light of contemporary political events. Students approach such important concepts as freedom, power, democracy, authority, revolution, and dictatorship.

## **POL203**

### **American National, State, and Local Government**

Semester: Spring. Semester Hours: 3.

This course provides an analysis of the American system of government on three levels. Students will examine the origins of our system of government, the nature and role of our Constitution with its functional and territorial distribution of powers, and the importance of government at the three levels.

## **POL220**

### **Political Leadership**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course will survey various theories of leadership as applied to politics, as well as explore the biographies of the men and women who have shaped both local as well as global events. Theory is grounded to practical application, with an emphasis on the various styles, methods, and particular contexts within which individual leaders have come to power, and how the exercise thereof has altered or reinforced their original goals and programs.

## **POL225**

### **Film and Politics**

Semester: On Demand. Semester Hours: 3.

Serves as an introduction to the study of politics and power relations through the modern medium of cinema. Films are treated as texts, and cover a wide-ranging and diverse set of themes, such as electoral politics, race relations, education, censorship, political violence, capitalism, and gender issues.

# Academic Programs

## **POL231**

### **Research Design**

Semester: Spring. Semester Hours: 1.

An introduction to the fundamentals of academic research. Students will learn to select relevant topics, formulate analytical questions, evaluate scholarly claims, and understand how to properly utilize and synthesize appropriate academic sources. This course is cross listed with HST 236. Note: this course is a prerequisite for the POL/HST490 Seminar.

## **POL301**

### **International Relations**

Semester: On Demand. Semester Hours: 3.

Students examine an analysis of the way nations interact with one another and how the necessities of power and the desire to regulate the use of power in the international arena have influenced twentieth-century world politics.

Prerequisite: a lower-division history course

## **POL309**

### **The United States in World Affairs**

Semester: On Demand. Semester Hours: 3.

This course studies United States foreign policy and diplomacy, including other American international activities, from 1917 to the present. This course is cross listed with HST 309.

## **POL313**

### **Environmental Politics**

Semester: Spring. Semester Hours: 3.

Political problems associated with the human impact on the natural environment: pollution, natural resources, public lands, land use, energy, cultural/social justice, and population.

## **POL318**

### **Visions of Utopia**

Semester: On Demand. Semester Hours: 3.

An exploration of the persistent yet elusive quest for the ideal system of governance. The course explores how "perfect" systems have been visualized in theory, attempted in practice, and often lamented in retrospect. Readings are drawn from a variety of historical examples, dating back to the ancient world, and include several utopian and dystopian novels that illuminate the inherent conflict between necessary order and perfect freedom.

## **POL321**

### **History of Political and Social Thought**

Semester: On Demand. Semester Hours: 3.

The development of political and social ideas from ancient Greece to the present is examined.

Prerequisite: POL101

## **POL327**

### **Race and Class in America**

Semester: On Demand. Semester Hours: 3.

Despite substantial efforts to provide economic opportunity for all Americans, a large and ethnically-diverse underclass remains. In an effort to explain this phenomenon, this course directly confronts American perceptions on wealth, poverty, and race, in order to more fully understand the confluence and contradictions among them. Course materials will include historical accounts, personal narratives, and sociopolitical analyses that explore concepts such as whiteness and blackness, and explain the cultural

and structural factors which limit life-chances and prevent many from claiming their share of the elusive "American Dream."

## **POL343**

### **Bross Peace Seminar**

Semester: Spring. Semester Hours: 3.

The Drs. John R. and Helen H. Bross Peace Seminar develops a theme that stems from the mission statement of the Rocky Mountain College Institute for Peace Studies which explores alternatives to violence in the behavior of individuals, groups, and nations. This upper division course is interdisciplinary, inter-generational, and team taught. We have presenters from Rocky Mountain College and Montana State University-Billings, with international guest speakers and guest speakers from the professional and business communities. Enrollment is limited to 20 students and 20 auditors to allow for active discussion and exchange.

Prerequisite: junior standing

## **POL405**

### **Mass Movements and Global Terrorism**

Semester: Spring. Semester Hours: 3.

An advanced seminar which focuses upon the sociocultural causes of violent mass movements. Terrorism is more properly understood as a specific type of political violence, and thus the course will seek to explain and understand the dynamic power struggles that underlie the phenomenon. Ultimately, strategies of counterterrorism and the prospect for peaceful reconciliation will be considered.

## **POL412**

### **Constitutional Law**

Semester: Fall, Alternate Years. Semester Hours: 3.

A case-method approach to the landmark decisions of the Supreme Court, with an emphasis on the doctrine of judicial review and the role of the Court in interpreting the Constitution and shaping American legal culture. The course will focus on the exercise and limitations of federal power in the areas of the economy, civil rights, and individual liberties, as well as the Constitutional basis on which statutes and other regulatory provisions are adjudicated. Special attention will be given to Constitutional clauses related to free speech, due process, and equal protection under the law.

## **POL422**

### **Revolutions and Revolutionaries**

Semester: On Demand. Semester Hours: 3.

An advanced seminar that seeks to answer one of the most important questions in the field: why men rebel. Relying heavily on primary sources, readings will include works of political theory, political biography, and narrative accounts of various historical examples of revolution as well as several profiles of the men and women engaged in both violent and non-violent rebellion.

## **POL427**

### **The Crisis of Modernity**

Semester: On Demand. Semester Hours: 3.

The dawn of the scientific revolution is much heralded as a turning point in world history, at which time man was emancipated from earlier forms of traditional rule. However, the divorce between tradition and the modern world is wrought with challenges and contradictions, such as the often dichotomous relationships

# Academic Programs

between religion and secularism, science and faith, technology and nature. A primary goal of this course is to question whether mankind is headed in the right direction, or if modernity has resulted in a net-negative for the human condition.

## **POL450 Internship**

Semester: On Demand. Semester Hours: 1-12.

This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. The internship should relate to the student's major or minor area of study. Contract is required.

Prerequisite: junior or senior standing

## **POL483 Research Assistantship**

Semester: On Demand. Semester Hours: 1-3.

As an advanced research course designed primarily for students considering further study at the graduate level, this is an opportunity for students to work individually and in close consultation with a member of the faculty, based on the supervising advisor's particular research agenda. Principal tasks include data collection, literature review, preliminary analysis, and/or other duties stipulated in an initial course contract.

Prerequisite: junior or senior standing

## **POL490 Seminar**

Semester: Fall. Semester Hours: 3.

This seminar explores such topics as the methods and materials of research, trends in historical research and writing, and a survey of historiography and the philosophy of history. A major research paper is required. This course is cross listed with HST 490.0

Prerequisite: POL231/HST236

## **POL499 Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## **Honors Program**

The honors program enhances the education of some of our finest students within an eight-credit-hour curriculum that allows them to work intensively with a single professor in the production of a project relevant to their career or graduate education interests. The projects vary widely in scope. Some students elect creative works in music, drama, or spatial arts. Others may do specialized research on historical or literary topics. Students in the sciences may wish to complete original research. Often, topics will be interdisciplinary. In all cases, students' projects are begun and completed with the approval and close support of the honors committee, their divisions, and their readers, as explained in the sequence below.

Successful honors students find that participation in this program not only brings them closer to professionals in their chosen fields, but also grants them substantial credentials in their applications to graduate schools or employment opportunities.

The honors program at Rocky Mountain College is open to students who, at completion of the second semester of their sophomore year, have achieved a GPA of 3.40 or better or are recommended by a faculty member. Interested students may also petition the honors committee for admittance to the program.

Honors students enjoy reserved carrels in the library, freedom from academic overload fees (students are exempt from overload fees due to enrollment in their honors courses; any extra credits students taken beyond the 19 non-honors credits would normally be subject to the overload fee), and an increase in scholarship assistance as they pursue projects during their senior year (honors students enrolled in HON490 are eligible for a \$300 scholarship each semester they are enrolled in HON490).

### **Spring semester junior year**

Approved entrants participate in HON309, Honors Proposal Development. Students will spend the semester selecting and developing topics related to their major field of study, and will produce a research proposal to be presented to the Honors committee for approval. Only well-developed proposals will be approved for academic support and possible funding by the committee. Students who successfully defend their proposals then move forward with their projects, taking two semesters of HON490 as well as HON409 (Fall) and HON491 (Spring) during their senior year.

### **Fall semester senior year**

Honors students commence work on their projects in HON490, Senior Honors Project, as well as participate in a leadership course, HON409.

### **Spring semester senior year**

Honors students register for a second semester of HON490, Senior Honors Project as well as HON491, Project Presentation, a rehearsal seminar climaxing in the graded public presentation of the completed project. In cases of mid-year graduation, HON491 will also be provided for the fall semester.

## **Honors Program courses**

### **HON309**

#### **Honors Proposal Development**

Semester: Spring, Junior Year. Semester Hours: 2.

The goal of this course is to produce a research proposal of the highest academic caliber. Students will spend the semester selecting and developing relevant topics, learning the methodology of research design, formulating analytical research questions, and gathering scholarly research related to their chosen course of study. At the end of the semester the proposal is presented to the Honors committee for approval, and only proposals approved by the committee will receive academic support. Proposals not approved may be resubmitted, at the discretion of the committee, with appropriate modifications.



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## **HON409**

### **Leadership**

Semester: Fall, Senior Year. Semester Hours: 1.

A course that considers classical and contemporary leadership issues and focuses on an issue determined by students and the faculty instructor.

Corequisite: HON490

## **HON490**

### **Senior Honors Project**

Semester: Fall and Spring. Semester Hours: 4; 2 credits each semester.

Students undertake senior papers/projects approved by the honors committee and their divisions. Students sign a contract with their faculty readers (mentors) outlining their objectives, timelines and final project. Students are expected to finish a rough draft of their projects by midterm of their second semester. Copies of the completed paper or a description of the project are due to the first (and second) reader and the director of the honors program by 4 p.m. on the second Friday in April (fourth Friday in November for those planning to graduate in December). Students present their projects to the college community in the second week before finals in each semester.

Prerequisite: HON309 and HON409

Corequisite: HON309 and HON409

## **HON491**

### **Project Presentation Seminar**

Semester: Spring, Fall on Demand. Semester Hours: 1.

A regular meeting of honors students preparing to deliver graded public presentations of their senior honors projects. Rehearsals, student and mentor critiques, use of audio/visual aids, and presentation techniques constitute the foci of these workshops.

Corequisite: HON490

## **Individualized Program of Study (IPS)**

An individualized program of study allows students to design a program that is not regularly offered by Rocky Mountain College. A student determines, with the help of faculty advisors, a program of study tailored to meet individual needs and interests. An IPS can be developed for either a major or a minor. All other graduation requirements must be completed, including all general education requirements. An IPS must be a pre-planned program of study; therefore, IPS proposals should be submitted by the end of the sophomore year.

The vice president of enrollment services and the academic vice president must approve all IPS programs. Applications should include the educational rationale behind the program along with a list of all courses to be applied toward the program. The application should also include requirements of similar programs from at least two other accredited institutions. All IPS majors and minors must meet the minimum criteria listed in the requirements for a baccalaureate degree. Proposals are evaluated on the basis of whether or not an IPS provides a coherent program of study, whether the proposed program is similar in breadth and depth to programs at other institutions, whether such a program can better meet the needs of the student, and whether or not the student can offer evidence of the ability to plan and carry out such an individualized program. To be eligible for consideration, the student must be available for regular on-campus contact with

the major advisor. Contact the student records office (657.1030) for further guidance on the preparation of an IPS proposal.

## **Interdisciplinary Studies**

### **Interdisciplinary Studies courses**

#### **IDS101**

##### **Campus Compass**

Semester: Fall. Semester Hours: 1.

This course introduces the freshman student to college life and academics. Topics include note taking, study techniques, test taking, time management, personal growth, and more. The course meets twice a week for the first six weeks of the semester.

#### **IDS105**

##### **Humanities Enrichment**

Semester: Spring. Semester Hours: 1.

This course introduces students to the humanities and familiarizes them with cultural opportunities in that area. Students will investigate museums, poetry, painting, live performances, reading, and music.

#### **IDS110**

##### **Introduction to the Humanities**

Semester: Fall. Semester Hours: 3.

This course introduces students to the humanities through a series of basic lectures and discussions on history, mythology, philosophy, religion, drama, poetry, literature, music, art, and politics along with an emphasis on the importance of these subjects in contributing to our development as humans. This course does not fulfill a general education requirement. The credits will count toward the 124 needed to graduate.

#### **IDS112**

##### **Student Leadership**

Semester: Fall. Semester Hours: 1.

This course assists student leaders in confronting campus issues and challenges. Emphasis is on student development theory, basic leadership skills, communication, and social issues. It is mandatory for resident assistants but greatly beneficial to all students in or aspiring to campus leadership roles. Recommended for ASRMC, hall council, and other club officers.

#### **IDS115**

##### **Indispensable Qualities of Leadership**

Semester: Fall. Semester Hours: 3.

This course is the study of the art of leadership and how leadership skills can be developed. We will study leaders throughout history, from Sun Tzu (of over 2,000 years ago) to the latest leadership examples. This course will utilize reading, classroom discussions, group participation efforts, and two films in the attempt to dissect the idea of leadership. This course will also look at "personal leadership"; characteristics that will enable the student to achieve success at Rocky Mountain College and in society.

# Academic Programs

## **IDS120**

### **College Study Skills/Developmental Reading**

Semester: Fall and Spring. Semester Hours: 2.

Sponsored by services for academic success (SAS), this course introduces major learning strategies which lead to academic success. Key topics include note-taking systems, scheduling methods, memory principles, academic resources and test-taking strategies. Students are provided with class-related assignments that encourage study skills mastery. In addition, students are provided individualized reading programs based on their present reading skills.

## **IDS131**

### **Habitat Mission**

Semester: Fall. Semester Hours: 1.

This weekend will serve as an introduction both to Habitat for Humanity and a local affiliate program. Students will be invited to learn about both the goals and intentions of a service program (by reading a book by the program's founder) and the personal impact it has in communities and the impact it has on a volunteer (through active participation). By meeting a family who will be living in the home we are building, students will be able to hear first-hand accounts of the struggles of low-income families and the difference programs such as Habitat for Humanity make in the lives of individuals and families.

The program is designed for students in their first or second year, but will not be limited to underclassmen. The local Habitat for Humanity affiliate may need to supplement our volunteer group with other local volunteers while we are on site, including those who are accepted by the affiliated Habitat for Humanity to receive a home. This interaction allows students to work side by side with future homeowners, past homeowners and volunteers who have a lot of experience with construction and the Habitat for Humanity program.

Students will learn more details about on-site safety, accommodations, dining, transportation, and packing lists at the required orientation. All registered students will receive a message regarding the day and time of this mandatory orientation during the first weeks of class. After the add/drop period, students may join the group without taking the course for credit.

## **IDS180**

### **Arabic I**

Semester: Fall. Semester Hours: 3.

This course provides an introduction to Arabic language through mastering the alphabet system. It emphasizes on the four language skills of reading, writing, listening and speaking. It presents basic vocabulary acquisition and it is an exploration of the Arab World culture. Textbook: Alif Baa with DVDs

## **IDS180**

### **Arabic II**

Semester: Fall. Semester Hours: 3.

This course continues the focus on improving the proficiency of the four language skills and establishes intensive grammatical structure. Cultural exposure expands and functional vocabulary acquisition increases. Communication and interaction techniques develop through encouraging group encounters and expressive discussions. Textbook: Al-Kitaab fii ta'aruf al-Arabiyya with DVDs (Part One)

## **IDS202**

### **Career Exploration and Planning**

Semester: On Demand. Semester Hours: 2.

This course focuses on the various facets of career search and choice. Students will assess their skills, values, interests, and attitudes to see where they fit in the world of work. Topics include information about job market trends, job search skills, resume writing, and interviewing.

## **IDS205**

### **Negotiations**

Semester: Fall. Semester Hours: 2.

Negotiation constitutes the primary form of dispute resolution. Negotiation is a comprehensible social process, not a mystical process in a black box; it can be analyzed, understood, and modeled. Negotiation is a learnable and teachable skill. Negotiators are made not born, and skills can be improved and relearned throughout life. The goal of this course is to empower the student, to become a comfortable negotiator - to appreciate the professional and personal enjoyment to be derived from negotiating.

## **IDS220**

### **College Newspaper**

Semester: On Demand. Semester Hours: 1-3.

Requires permission of the faculty advisor. Pass/no pass grading.

## **IDS243**

### **Scientific Writing and Analysis**

Semester: Fall and Spring. Semester Hours: 2.

Students will write clear and concise scientific papers and reports. Writing assignments will focus on grammatical requirements for formal scientific writing; abstracts; outlines and organization including paper, paragraph, and sentence structure; paraphrasing and citation usage; and methods of data presentation. A portion of the course will be devoted to data analysis, drafting of tables, and preparation of graphs. IDS243 is required for Biology and Chemistry majors and minors.

Prerequisite: ENG120 and declared major or minor in a natural science, or permission of instructor

## **IDS276**

### **Irish Protest**

Semester: Spring. Semester Hours: 1.

The contentious political culture of Ireland has transitioned multiple times throughout the last three hundred years. Governmental, non-governmental, religious, and local groups have emerged in the debate about governmental power in Ireland and Northern Ireland. This course will trace the current developments in Irish politics through a history of the IRA, Sinn Fein, Ulster Unionist, and Irish Nationalist party. The protest rhetoric in these social movements has framed the political identity of the citizens of these two countries. This course will track the progression of current developments in Irish politics by examining communication attributes of the various organizations that have engaged in the political protests. We will travel to Dublin, Belfast, Derry, Galway and Dingle to gain diverse political and religious perspectives in the respective countries. Introductory material will be presented prior to departure so students have a historical and political context in which to understand the political protest and the cultural tours.

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## IDS278

### **The Rhetoric of Irish Protest**

Semester: Summer. Semester Hours: 1.

This credit is earned by the students during the 12 day trip to Ireland in the May session. The contentious political culture of Ireland has transitioned multiple times throughout the last three hundred years. Governmental, non-governmental, religious, and local groups have emerged in the debate about governmental power in Ireland and Northern Ireland. This course will trace the current developments in Irish politics through a history of the IRA, Sinn Fein, Ulster Unionist, and Irish Nationalist party. The protest rhetoric in these social movements has framed the political identity of the citizens of these two countries. This course will track the progression of current developments in Irish politics by examining communication attributes of the various organizations that have engaged in the political protests. We will travel to Dublin, Belfast, Derry, Galway and Dingle to gain diverse political and religious perspectives in the respective countries. Introductory material will be presented prior to departure so students have a historical and political context in which to understand the political protest and the cultural tours.

Prerequisite: IDS276

## IDS305

### **Mediation**

Semester: Spring. Semester Hours: 3.

Mediation is an interdisciplinary field. Mediators come from all disciplines and walks of life. A potential mediator ought to possess including; the patience of Job, the hide of a rhinoceros, and the wisdom of Solomon. Mediation is an alternative to a decision rendered by a judge, arbitrator, or other decision maker. Mediators help the parties in a dispute to engage in constructive and creative communication, which will allow them to explore the issues and reach a mutually acceptable resolution of their dispute. The goal of the course is to provide those basic skills necessary to further pursue mediation, either as a profession or as another arrow in the student's quiver of practical and life skills.

## IDS422

### **Methods And Materials: Teaching Natural Science In The Secondary School**

Semester: Fall. Semester Hours: 2.

This course emphasizes the teaching of biology or chemistry at the secondary 5-12 level. Methods of teaching these subjects (including incorporation of active hands-on experiences), reviewing texts for content appropriate to various grade levels, and the use of technology in the classroom will constitute major parts of the course. Particular attention will be paid to thinking, reading, listening, writing, and speaking instruction. Teaching diverse and at-risk student populations will also be discussed. This course is the capstone course for the biology or chemistry education major.

Corequisite: EDC420

## IDS443

### **Literature of Leadership**

Semester: On Demand. Semester Hours: 3.

This course reviews current literature regarding leadership. Different leadership theories are explored in the context of current literature.

## IDS483

### **Organizational Leadership**

Semester: Spring, Even Years. Semester Hours: 3.

This course operates on a format of open discussion, risktaking, initiative, honest self-assessment, experiential exercises, and observation of real-life leadership practice. It will challenge students to craft their own perspectives strengthened through critical examination of case studies, workshops, readings, and local public leaders who will share their own leadership perspectives.

## **Mathematics**

*Debra Wiens, Professor*

*Robyn Cummings, Associate Professor*

*Ulrich Hoensch, Associate Professor*

*Samuel Gross, Assistant Professor*

Mathematics is one of the most intellectually challenging and academically pure subjects. Mathematical thought is a creative process of the mind that uses only logical deduction and established results which, in turn, have been derived from a few unarguable assumptions (axioms). Mathematical modeling is the process of critically investigating a given object (e.g., the functioning of a biological system); and of choosing or creating mathematical structures that explain the observed behavior and allow for prediction and manipulation of this object.

The mathematics program at Rocky Mountain College emphasizes both the pure and applied aspects of mathematics. At its core, its curriculum is designed to provide students with a solid foundation in the art of providing mathematically sound arguments, and with a thorough knowledge of the most important modern mathematical tools and methods. In addition, the mathematics program offers elective courses that give students the opportunity to branch out and pursue their own interests. Many elective courses emphasize connections to other fields (such as computer science, engineering, finance, and the natural sciences).

All mathematics prerequisite courses must be completed with a grade of at least "C-".

### **Major in Mathematics**

A minimum of 38 semester hours, including:

MAT175 Calculus I  
MAT176 Calculus II  
MAT212 How to Read and Write Proofs  
MAT275 Calculus III  
MAT276 Introduction to Mathematica  
MAT311 Linear Algebra  
MAT313 Differential Equations  
MAT317 Abstract Algebra I  
MAT318 Abstract Algebra II  
MAT481 Introduction to Real Analysis

Plus two electives numbered 219 or above.

### **Major in Mathematics Education**

A minimum of 40 semester hours, including:

MAT175 Calculus I  
MAT176 Calculus II  
MAT212 How to Read and Write Proofs  
MAT220 Elementary Number Theory

# Academic Programs

MAT256 Discrete Structures and Computability  
MAT275 Calculus III  
MAT276 Introduction to Mathematica  
MAT306 History and Philosophy of Mathematics  
MAT310 Mathematical Statistics  
MAT312 Modern Geometric Theories  
MAT317 Abstract Algebra I  
MAT318 Abstract Algebra II  
MAT422 Methods and Materials: Teaching Mathematics in the Secondary School  
MAT481 Introduction to Real Analysis

In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the "education" section of the catalog.

Note: If a student majors in both mathematics and mathematics education, he or she must complete the requirements of both majors but does not need to take additional credits within the mathematics department. Majoring in both mathematics and mathematics education requires a minimum of 46 semester hours.

## Minor in Mathematics

A minimum of 21 semester hours, including:

MAT175 Calculus I  
MAT176 Calculus II  
MAT275 Calculus III

Choose three of the following:

MAT212 How to Read and Write Proofs  
MAT256 Discrete Structures and Computability  
MAT310 Mathematical Statistics  
MAT311 Linear Algebra  
MAT313 Differential Equations  
MAT317 Abstract Algebra  
MAT320 Numerical Methods  
MAT481 Introduction to Real Analysis

## Minor in Mathematics Education

A minimum of 29 semester hours, including:

MAT175 Calculus I  
MAT176 Calculus II  
MAT212 How to Read and Write Proofs  
MAT220 Elementary Number Theory  
MAT310 Mathematical Statistics  
MAT312 Modern Geometric Theories  
MAT317 Abstract Algebra I  
MAT422 Methods and Materials: Teaching Mathematics in the Secondary School

In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the "education" section of the catalog.

## Mathematics courses

### MAT090

#### Refresher Math: Algebra

Semester: Fall and Spring. Semester Hours: 3.

Sponsored by services for academic success (SAS), this course is designed to prepare students for college algebra. Elementary algebra topics are covered, which include solving equations and

inequalities, simplifying algebraic expressions, simplifying expressions involving integers and rational numbers, and graphing equations. This course will not satisfy the math general education requirements and will not count toward the 124 credits required for graduation.

### MAT100

#### College Algebra

Semester: Fall and Spring. Semester Hours: 3.

This is a basic course in intermediate and advanced algebra.

Prerequisite: satisfactory score on a placement exam

### MAT103

#### Mathematics for Elementary School Teachers I

Semester: Fall. Semester Hours: 3.

A survey of various mathematical topics normally taught in grades K-8, specifically numeration systems, number theory, patterns and relationships, and fractions. This course is intended for elementary education students only. Students must earn a grade of "C-" or better to fulfill requirements for the elementary education program.

Prerequisite: MAT100 or satisfactory score on a placement exam

### MAT104

#### Mathematics for Elementary School Teachers II

Semester: Spring. Semester Hours: 3.

A survey of various mathematical topics normally taught in grades K-8, specifically probability and statistics, geometric basic concepts and structures, measurement, and coordinate geometry. This course is intended for elementary education students only. Students must earn a grade of "C-" or better to fulfill requirements for the elementary education program.

Prerequisite: MAT103 with a grade of C- or better

### MAT110

#### Elementary Functions

Semester: Fall and Spring. Semester Hours: 3.

A standard pre-calculus course emphasizing the function concept. Special attention is paid to trigonometric, exponential, and logarithmic functions.

Prerequisite: MAT100 or satisfactory score on a placement exam

### MAT131

#### Trigonometry and Applied Calculus

Semester: Spring. Semester Hours: 3.

This course is available to aeronautical science majors and aviation management majors only. This course introduces applied trigonometry, vectors, and basic differential and integral calculus to model and solve real-world problems.

Prerequisite: MAT100 or satisfactory score on a placement exam

### MAT152

#### To Infinity and Beyond

Semester: On Demand. Semester Hours: 3.

Exploration of a variety of modern mathematical topics. Topics will illustrate mathematics as a way of representing and understanding patterns and structures, as an art, as a tool in other disciplines and as a historical force. Topics may include infinity, chaos, fractals, symmetry, networks and others.

Prerequisite: MAT100 or the equivalent

# Academic Programs

## **MAT175**

### **Calculus I**

Semester: Fall. Semester Hours: 5.

This course is a study of the functions of one real variable and includes a brief review of circular functions. The ideas of limit, continuity, and differentiation are explained and applied to physical problems. Topics include the use of approximations and problem solving. The use of graphing calculators is required.

Prerequisite: satisfactory score on a placement exam or MAT110

## **MAT176**

### **Calculus II**

Semester: Spring. Semester Hours: 5.

Continuing the study of the functions of one real variable, the idea of integration is applied to physical problems. Introduction to sequences and series. The use of graphing calculators is required.

Prerequisite: MAT175

## **MAT210**

### **Probability and Statistics**

Semester: Fall, Spring, and Summer. Semester Hours: 3.

This course provides a non-calculus-based study of discrete probability theory and its statistical applications. Distribution theory and its applications in hypothesis testing and setting confidence intervals are discussed.

Prerequisite: MAT100 or satisfactory score on a placement exam

## **MAT212**

### **How to Read and Write Proofs**

Semester: Spring, Alternate Years. Semester Hours: 3.

Students are introduced to the different methods of mathematical proofs. Emphasis is placed on critical reading of proofs and the ability to correct errors as well as on writing correct proofs. This course is designed as a precursor to advanced math courses and should be taken during the freshman or sophomore year.

Prerequisite: MAT175

## **MAT219**

### **Graph Theory**

Semester: On Demand. Semester Hours: 3.

Topics include paths, Euler and Hamiltonian problems, planar graphs, trees, directed and undirected graphs, networks, and connectedness. Applications to various disciplines will be included. Computational algorithms will be developed as appropriate.

Prerequisite: MAT100 or satisfactory score on a placement exam

## **MAT220**

### **Elementary Number Theory**

Semester: Fall, Alternate Years. Semester Hours: 3.

Topics include axiomatic development of the positive integers, construction of the real number system, and study of equations with integral solutions. Divisibility properties, prime numbers, and the analysis of congruencies will be studied.

Prerequisite: MAT175 and MAT212

## **MAT256**

### **Discrete Structures and Computability**

Semester: On Demand. Semester Hours: 3.

The mathematical and theoretical underpinnings of the science of computer science will be explored. Students will be introduced to Boolean algebra and elementary logic and their appli-

cation to computer implementation and algorithm development. This course explores the historical development of computer science from its roots in mathematical models including early models of computation, such as Turing machines and other finite state machines.

Prerequisite: CSC131 or CSC143 and either MAT110 or MAT175

## **MAT275**

### **Calculus III**

Semester: Fall. Semester Hours: 3.

Vector functions of one or more real variables, scalar functions of several variables, multiple integration, and surface theory via vectors are among the topics studied. Increasing emphasis on modeling of physical problems and the analysis of geometrical problems in higher dimensional space.

Prerequisite: MAT176

## **MAT276**

### **Introduction to Mathematica**

Semester: Fall. Semester Hours: 1.

This course provides an introduction to the basic structures and components of computer algebra systems (CAS). Lists, functions, graphics and programming in Mathematica will be covered.

Prerequisite: MAT176

Corequisite: MAT275

## **MAT306**

### **History and Philosophy of Mathematics**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course provides a survey of mathematicians of historical note, including their motivations and studies. Students will also examine classical problems and how they were solved. Unsolved problems in mathematics will be discussed.

Prerequisite: MAT175

## **MAT310**

### **Mathematical Statistics**

Semester: Spring, Alternate Years. Semester Hours: 3.

A calculus-based introduction to statistical methods and theory. The course covers basic probability rules; random variables and probability distributions; limit theorems; sampling distributions; point and interval estimation methods; hypothesis testing, including t- and chi-square tests; the simple linear regression model and analysis of variance.

Prerequisite: MAT275

## **MAT311**

### **Linear Algebra**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course introduces students to the basic structures of linear algebra, which include the following: matrices, determinants, vectors and vector spaces, inner product spaces, eigenvalues and eigenvectors. Applications and computational aspects of these topics will be presented.

Prerequisite: MAT175

Corequisite: MAT176

# Academic Programs

## **MAT312**

### **Modern Geometric Theories**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course provides a study of Euclidean and non-Euclidean geometries.

Prerequisite: MAT175 and MAT212

## **MAT313**

### **Differential Equations**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course examines analytic, numerical, and geometric techniques for solving first-order differential equations; bifurcations of first-order autonomous differential equations; second-order differential equations, with emphasis on the harmonic oscillator; Laplace transforms; eigenvalue/eigenvector and geometric methods for linear systems with constant coefficients; equilibrium point analysis of nonlinear systems; analysis of limit cycles. Applications from biology, physics, and economics are presented.

Prerequisite: MAT311

## **MAT316**

### **Complex Variables**

Semester: On Demand. Semester Hours: 3.

This is a basic undergraduate course in complex variables. Topics will include analytic functions, Cauchy's integral formula, the residue calculus, and conformal mapping.

Prerequisite: MAT275

## **MAT317**

### **Abstract Algebra I**

Semester: Fall, Alternate Years. Semester Hours: 3.

This course provides an introduction to algebraic structures via group theory. Students explore a careful development of the concept of a group and elementary properties of groups. Emphasis is placed on creating mathematical proofs. Some applications to physical problems are included.

Prerequisite: MAT275 and MAT212

## **MAT318**

### **Abstract Algebra II**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course is an extension of Abstract Algebra I, with ring, ideal, and field theory introduced and examined. Some Galois theory may be covered.

Prerequisite: MAT317

## **MAT320**

### **Numerical Methods**

Semester: On Demand. Semester Hours: 3.

The study of numerical methods involves the design and use of algorithms for solving large mathematical problems with a computer. Topics include estimation of accuracy, the use of series and approximation, and numerical integration and differentiation.

Prerequisite: CSC251 and MAT176

## **MAT325**

### **Combinatorics**

Semester: On Demand. Semester Hours: 3.

This basic course in enumerative Combinatorics emphasizes developing combinatorial reasoning skills and applying these to

solve problems in various areas of math and computer science. Topics covered will include basic counting principles, generating functions, recurrence relations, the principle of inclusion/exclusion, estimation, and modeling.

Prerequisite: MAT219

## **MAT422**

### **Methods and Materials: Teaching Mathematics in the Secondary School**

Semester: On Demand. Semester Hours: 2.

This course requires focused study and consultation with a public school mathematics teacher, or other acceptable professional. Hours will be arranged in consultation with the content area professor, the secondary education professor, the student, and the professional mentor. Methods of teaching mathematical content appropriate for grades 5-12 are explored. Appropriate use of technology and implications of current research in mathematics education are discussed. Current NCTM curriculum standards are used as the foundation of the course.

Prerequisite: admission to the teacher education program, senior standing

## **MAT450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

An internship in mathematics arranged between a member of the math faculty and the student. The internship will not count as part of the minimum number of credits required in the major. The requirements will be based on the number of credits. Contract is required.

Prerequisite: junior or senior standing, a cumulative GPA of at least 2.00 and a major GPA of at least 2.25

## **MAT481**

### **Introduction to Real Analysis**

Semester: Spring, Alternate years. Semester Hours: 3.

A proof-based course designed to establish the results in the calculus sequence from the axioms of the real-number system. Main topics include definitions and results related to limits, continuity, the intermediate value theorem, the derivative and differentiation rules, Riemann integral and Riemann-integrability, convergence of sequences and series, uniform convergence of function sequences, and power series.

Prerequisite: MAT212 and MAT275

## **MAT490**

### **Seminar**

Semester: On Demand. Semester Hours: 2-3.

Selected topics in mathematics are explored.

Prerequisite: permission of professor

## **MAT499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows interested students to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor in mathematics or mathematics education and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

# Academic Programs

## Military Science

*Captain Janel Wiese, Assistant Professor of Military Science*

Army ROTC prepares students with the leadership skills and abilities through an applied model of training and mentorship to face the challenges of an ever changing environment. Students who accept the challenge to become an Army Officer may be eligible for a four year scholarship to include: 100% Tuition & fees (minus aviation), \$1200 per year book allowance and a tax free stipend based on academic status ( \$300/month – Freshman, \$350/month – Sophomore, \$450/month – Junior, \$500/month – Senior). Army ROTC courses are categorized as a Basic Course (Freshman and Sophomore courses) or Advance Course (Junior and Senior courses). Any student may take Basic Course and physical fitness classes without military obligation or pre-requisites. Advance Course classes are limited to qualified contracted students (see Cadre for details). Typically, ROTC students take one three-credit class (2 to 3 hours per week), one workshop/leadership laboratory per week, and one overnight field exercise per semester in addition to their other classes. ROTC students also participate in physical fitness training (3 hours per week). The program provides opportunities to attend confidence-building courses during the summer such as the Air Assault or Airborne Schools, Mountain Warfare and summer internships. The program works with its Army ROTC host Battalion at Montana State University – Bozeman. ROTC (Military Science) is neither a major nor a minor. All cadets who seek a commission must graduate with one of Rocky Mountain College's recognized majors. Cadets also plan and conduct other military events and participate in various leadership experiences each semester.

### ROTC Curriculum

A maximum of 12 credits from the advanced courses in the Military Science curriculum may be applied as electives towards your degree. There are various other Military Science courses that may be available but not part of the required ROTC curriculum. These include 404 Practicum (1-3 semester hours) and 405 Leadership Special Topic (1-4 semester hours).

### The Basic Course

The ROTC program is divided between the Basic Course and the Advance Course. The Basic Course consists of Freshman and Sophomore classes. Any student may take any Basic Course and the physical conditioning classes without pre-requisite or military obligation. The Basic Courses classes are:

- MLS101 Introduction to Military Leadership Skills (2 credits)
- MLS102 Basic Leadership Skills and Concepts (2 credits)
- MLS201 Leadership Development and Life Skills (3 credits)
- MLS202 Leadership Management and Team Building (3 credits)

The physical conditioning class is:

- MLS106 Army Physical Conditioning and Training (co-requisite taken every semester with Basic and Advanced courses. 1 credit)

### The Advance Course

Only qualified, contracted ROTC cadets may take Advance Course classes:

- MLS301 Small Unit Tactics and Operations (3 credits)
- MLS302 Applied Leadership and Tactics Training (3 credits)
- \*MLS303 Warrior Forge (3 credits)

- MLS401 The Army Officer: Roles and responsibilities (3 credits)

\*Advance Course cadets must also complete Leadership Development and Assessment Course (5 paid weeks at Fort Lewis, Washington. Usually taken during the summer between their Junior and Senior year)

After the successful completion of ROTC requirements and graduation, Cadets commission as 2nd Lieutenants in the US Army. Cadets have the option of going into Active Duty, the Army Reserves, or the National Guard. Stipulations do apply. Contact Paul Fowler at: 406-461-6929 or paul.fowler@montana.edu for more information regarding commissioning, scholarships and enrollment options.

## Military Science courses

### MLS101

#### Introduction to Military Leadership Skills

Semester: Fall, Spring, and Summer. Semester Hours: 2 .

Establishes a framework for understanding officership, leadership, Army values and physical fitness, time management, communications theory and practice (written and oral), and interpersonal relationships. These initial lessons form the building blocks of progressive lessons in values, fitness, leadership, and officership. A laboratory component is required which includes physical fitness training, and other outdoor skills.

Corequisite: MLS106

### MLS102

#### Basic Leadership Skills and Concepts

Semester: Fall, Spring, and Summer. Semester Hours: 2 .

Establishes a foundation of basic leadership fundamentals such as: problem solving, communications, military briefings, effective writing, goal setting, techniques for improving listening and speaking skills, in addition to an introduction to counseling. Provides students with a basic understanding of situational leadership as it applies to the military and how the basic concepts and practices relate to individuals and organizations. A laboratory component is required which includes physical fitness training, and other outdoor skills.

Corequisite: MLS106

### MLS106

#### Army Physical Conditioning and Training

Semester: Fall, Spring, and Summer. Semester Hours: 1 .

Develops confidence and discipline in mind and body through a regimented and challenging physical conditioning course. Designed to provide students a framework of fitness skills, planning and testing for a lifetime of health. The course consists of three Physical Training (PT) sessions per week that include: running, swimming, upper body, core development, sports, and team building exercises.

Corequisite: enrollment in another MLS course

### MLS201

#### Leadership Development and Life Skills

Semester: Fall, Spring, and Summer. Semester Hours: 3 .

Develops an understanding of how to build teams, influence, communicate, a process for effective decision making, teaches creative problem solving, and the fundamentals of planning.

# Academic Programs

Students identify successful leadership characteristics through observation of others and self through experiential learning exercises. A laboratory component is required which includes physical fitness training, and other outdoor skills.  
Corequisite: MLS106

## **MLS202**

### **Leadership Management and Team Building**

Semester: Fall, Spring, and Summer. Semester Hours: 3 .

Provides an advanced look at leadership principles and the application and practice of those principles. Examines building successful teams, various methods for influencing action, effective communication and achieving goals. Additionally, stresses the importance of timing the decision, creativity in the problem solving process, and obtaining team buy-in through immediate feedback. A laboratory component is required which includes physical fitness training, and other outdoor skills.

Corequisite: MLS106

## **MLS203**

### **Ranger Challenge - Practicum**

Semester: Fall. Semester Hours: 1 .

Provides a forum to execute and evaluate the leadership skills and abilities developed in practical exercises, tactical scenarios and peer mentorship. This course evaluates the tactical, technical, communication skills and duties common to all branches of the Army. Development of leadership and the ability to function effectively in small unit operations. A laboratory component is required which includes physical fitness training, and other outdoor skills.

Prerequisite: consent of instructor

Corequisite: MLS101, MLS201, MLS301, MLS401

## **MLS204**

### **Leadership Training Course - Practicum**

Semester: Summer. Semester Hours: 3 .

Provides a forum for the development of Military Leadership fundamentals. LTC is four weeks of intense classroom and field training held in the summer at Fort Knox, KY. This course is an accelerated version of the two years of leadership development training Cadets receive in the Basic Course of ROTC. By transforming yourself through this rigorous training, you will qualify for enrollment in the Army ROTC Advanced Course on campus-provided you have two years of college remaining (undergraduate or graduate).

Prerequisite: consent of instructor

## **MLS301**

### **Small Unit Tactics and Operation**

Semester: Fall. Semester Hours: 3 .

Provides for the study, evaluation and practice of the adaptive leadership model in order to acquire the same. The Leadership Development Program (LDP) is used to develop self-awareness, behavior modification and critical thinking. Battle drills serves to assist in preparing the Student/Leader for Warrior Forge. Students conduct self-assessment of leadership style, develop personal fitness regimen, and learn to plan and conduct individual/small unit tactical training while testing reasoning and problem-solving techniques. Students receive direct feedback on leadership abilities. Restricted to contracted Military Science students. A laboratory component is required which includes physical fitness training, and other outdoor skills.

Prerequisite: MLS101, MLS102, MIL 201, MLS202, or MLS204

Corequisite: MLS106

## **MLS302**

### **Applied Leadership and Tactics Training**

Semester: Spring. Semester Hours: 3 .

Provides a forum in order to execute and evaluate the leadership skills and abilities developed in practical exercises, tactical scenarios and mentorship. Evaluate the tactical, technical, administrative skills and duties common to all branches of the Army. Development of leadership behaviors and the ability to function effectively in small unit operations. Examines the role communications, values, and ethics play in the leadership role. Topics include: ethical decision-making, consideration of others, spirituality in the military, and case studies of effective leaders. Explores the leader's role in planning, directing and coordinating the efforts of individuals and small groups in tactical missions. A laboratory component is required which includes physical fitness training, and other outdoor skills.

Prerequisite: MLS301

Corequisite: MLS106

## **MLS303**

### **Warrior Forge**

Semester: Summer. Semester Hours: 3 .

Provides an environment in which to evaluate and enhance Students' leadership abilities in a controlled and challenging environment. This serves as U.S. Army Cadet Command's flagship training and assessment exercise held at Ft. Lewis, Washington each summer. Every Army ROTC Cadet hoping to pin-on the gold bar of an Army lieutenant must successfully complete Warrior Forge. After graduation, most attendees will go back to their colleges or universities to finish their degrees and then be commissioned.

Prerequisite: MLS302

## **MLS401**

### **The Army Officer: Roles and Responsibilities**

Semester: Fall. Semester Hours: 3 .

Develops proficiency in planning and executing complex operations, functioning as a member of a staff, and mentoring subordinates. Students explore training management, methods of effective team collaboration, and developmental counseling techniques. The application of leadership principles and techniques involved in leading young men and women in today's Army. Restricted to contracted Military Science students.

Prerequisite: permission of instructor

Corequisite: MLS106

## **MLS402**

### **Officership: Ethics and Justice in the Army**

Semester: Spring. Semester Hours: 3 .

Focuses on case study analysis of military law and practical exercises on establishing an ethical command climate. Future Leaders must complete a semester long Senior Leadership Project that requires them to plan, organize, collaborate, analyze, and demonstrate their leadership skills. Understanding of the ethical components of the Uniform Code of Military Justice and civil rights legislation. Study of the Military justice system and Army law administrations. Exploration of the dynamics of leading in complex situations. Preparation for transition from col-



# Academic Programs

lege student to commissioned Officer in the Army. A laboratory component is required which includes physical fitness training, and other outdoor skills.

Corequisite: MLS106

## MLS404

### Advanced Leadership Practicum

Semester: Fall, Spring, and Summer. Semester Hours: 1-3 .

Provides a study in military tactics, leadership and organizational behavior. Closely supervised by military Officers in order to provide one-on-one developmental counseling and mentorship. Restricted to contracted Military Science students.

Prerequisite: consent of instructor

## MLS405

### Leadership Special Topic

Semester: Fall, Spring, and Summer. Semester Hours: 1-4 .

Provides a course of study not required in any curriculum for which there is a particular one-time need. Serves the needs of the Instructor and/or Student(s) otherwise not covered in any other class or curriculum.

Prerequisite: consent of instructor

## Music

*Steven Hart, Professor*

*Samuel J. Hamm, Associate Professor*

*Jennifer Bratz, Assistant Professor*

*Anthony Hammond, Assistant Professor*

*Carolyn Coefield, Instructor*

The music program at Rocky Mountain College offers degrees in music education and music performance with concentrations in vocal, instrumental, piano, and composition studies, all fully integrated in the liberal arts tradition. Students receive comprehensive training in music theory, history, ear training, pedagogy, and piano study along with instruction in solo and ensemble performance. The music program strives to develop disciplined musicians, teachers, and performers through coaching in private lessons and in the classroom. The music education degree, taken in conjunction with the fulfillment of state education requirements, qualifies graduates to teach choral and instrumental music in K-12 grades. The performance curriculum prepares students for graduate study or entrepreneurial activity in performance or private teaching.

Rocky Mountain College offers all students the opportunity to participate in musical activities available within the department. Students in all majors are encouraged to participate in ensembles and private voice or instrumental instruction. The music minor is available to students in other disciplines looking to continue their previous musical instruction or expand their musical knowledge.

### Major in K-12 Vocal and Instrumental Music Education

A minimum of 59 semester hours is required. Courses in Music:

MUS020	Recital Attendance (6 semesters)
MUS030	Junior Recital
MUS040	Senior Recital
MUS111	Theory I
MUS112	Theory II
MUS140	Introduction to Music of the World's Peoples
MUS141	Musicianship I

MUS142	Musicianship II
MUS153	Beginning Group Guitar
MUS201	Music Through the Centuries I
MUS202	Music Through the Centuries II
MUS211	Theory III
MUS212	Theory IV
MUS241	Musicianship III
MUS242	Musicianship IV
MUS402	Conducting

Eight semesters in applied study, six of which must be on voice or a single instrument, and eight semester hours in ensemble participation.

Courses in Music Education:

MUS319	Pedagogy of Voice
MUS325	Instrumental Methods I
MUS326	Instrumental Methods II
MUS344	Methods and Materials: Teaching General Music in the Elementary School
MUS415	Methods and Materials: Teaching Music in the Secondary School

Music education majors must also complete the professional education program for K-12 teaching as described in the "Education" section of the catalog, except that music education majors are not required to take EDC420.

### Major in Music Performance, Composition Emphasis

A minimum of 59 semester hours is required, including:

MUS020	Recital Attendance (6 semesters)
MUS030	Junior Recital
MUS040	Senior Recital
MUS111	Theory I
MUS112	Theory II
MUS141	Musicianship I
MUS142	Musicianship II
MUS201	Music Through the Centuries I
MUS202	Music Through the Centuries II
MUS211	Theory III
MUS212	Theory IV
MUS241	Musicianship III
MUS242	Musicianship IV
MUS311	Counterpoint I
MUS312	Counterpoint II
MUS361	Form and Analysis
MUS362	Orchestration and Arranging
MUS402	Conducting

Eight semester hours in applied study in composition (four semester hours of MUS251/MUS252 and four semester hours of MUS351/MUS352), six semester hours of applied study on a primary instrument or voice (four semester hours of MUS251/MUS252 and two semester hours of MUS351/MUS352), four semester hours of piano (in either class piano or private lessons as appropriate to the ability of the student) and eight semester hours in ensemble participation in either Concert Choir or Concert Band.

### Major in Music Performance, Instrumental Emphasis

A minimum of 59 semester hours is required, including:

MUS020	Recital Attendance (6 semesters)
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# Academic Programs

MUS030	Junior Recital
MUS040	Senior Recital
MUS111	Theory I
MUS112	Theory II
MUS141	Musicianship I
MUS142	Musicianship II
MUS201	Music Through the Centuries I
MUS202	Music Through the Centuries II
MUS211	Theory III
MUS212	Theory IV
MUS241	Musicianship III
MUS242	Musicianship IV
MUS311	Counterpoint I
MUS325	Instrumental Methods I
MUS326	Instrumental Methods II
MUS361	Form and Analysis
MUS402	Conducting

Twelve semester hours of applied study on a primary instrument (four semester hours of MUS251/MUS252 and eight semester hours of MUS351/MUS352), two semester hours of either MUS396 (in an instrumental chamber group) or MUS376 (in a professional or community group as approved by the music faculty) and eight semester hours of ensemble participation with at least six semester hours in Concert Band.

## Major in Music Performance, Piano Emphasis

A minimum of 59 semester hours is required, including

MUS020	Recital Attendance (6 semesters)
MUS030	Junior Recital
MUS040	Senior Recital
MUS111	Theory I
MUS112	Theory II
MUS141	Musicianship I
MUS142	Musicianship II
MUS201	Music Through the Centuries I
MUS202	Music Through the Centuries II
MUS211	Theory III
MUS212	Theory IV
MUS241	Musicianship III
MUS242	Musicianship IV
MUS311	Counterpoint I
MUS320	Pedagogy and Literature of Piano
MUS321	Accompanying I
MUS322	Accompanying II
MUS361	Form and Analysis
MUS402	Conducting

Twelve semester hours of applied study in piano (four semester hours of MUS251/MUS252 and eight semester hours of MUS351/MUS352), and eight semester hours of ensemble participation in either Concert Choir or Concert Band.

## Major in Music Performance, Vocal Emphasis

A minimum of 59 semester hours is required including:

MUS020	Recital Attendance (6 semesters)
MUS030	Junior Recital
MUS040	Senior Recital
MUS111	Theory I
MUS112	Theory II
MUS141	Musicianship I
MUS142	Musicianship II

MUS201	Music Through the Centuries I
MUS202	Music Through the Centuries II
MUS211	Theory III
MUS212	Theory IV
MUS241	Musicianship III
MUS242	Musicianship IV
MUS311	Counterpoint I
MUS319	Pedagogy of Voice
MUS361	Form and Analysis
MUS364	Diction I
MUS365	Diction II
MUS402	Conducting

Twelve semester hours of applied study in voice (four semester hours of MUS251/MUS252 and eight semester hours of MUS351/MUS352), one semester hour of either MUS395 (in a vocal chamber group) or MUS375 (in a professional or community group as approved by the music faculty) and eight semester hours of ensemble participation with at least six semester hours in Concert Choir.

## Minor in Music

A minimum of 25 hours is required (with six semester hours in upper division courses), including:

MUS020	Recital Attendance (3 semesters)
MUS111	Theory I
MUS112	Theory II
MUS141	Musicianship I
MUS142	Musicianship II
MUS201	Music Through the Centuries I
MUS202	Music Through the Centuries II

Four semester hours of applied study in voice or a principal instrument, four semester hours of participation in Concert Band or Concert Choir (or a combination of the two), and an upper-division music elective.

## Piano Proficiency Requirement

Music Education and Performance majors must pass a piano proficiency exam as a graduation requirement. Elements of the exam include but are not limited to: major and minor scales, chord progressions, score reading, transposition, harmonization, accompanying voice and instrumental repertoire, accompanying choral literature, and playing solo repertoire. A piano placement exam will be given to each music major to determine placement within the either the class piano sequence or private instruction as appropriate to the student and at the instructor's discretion. The proficiency exam is given after the four-semester class piano sequence or as appropriate for students in private lessons.

## Primary Instrument or Voice Study

All music majors are required be enrolled in private lessons during each semester of study. A minimum of eight semester hours of MUS251, MUS252, MUS351, or MUS352 are required, of which, six semester hours must be completed on a primary instrument or voice and registered for under the same section number, regardless of course number. Music minors are required to complete four semester hours of private lessons and are not required to have a primary instrument or voice.

# Academic Programs

## Performance Requirements

All music majors must participate in at least one performing ensemble in each semester of enrollment. No more than eight semester hours of ensemble credit may be applied to the major. Music education majors must complete a minimum of two semester hours in the concert choir and a minimum of two semester hours in the concert band. Music majors must perform a junior and senior recital on their primary instruments or voice after passing a recital hearing for the music faculty. This recital hearing should be done no less than four weeks before the intended recital date. Half recitals will be comprised of 30 minutes of music (actual playing time, not the length of the event), and full recitals 50 minutes of music. Music education majors will complete a half junior and a half senior recital. Music performance majors with a vocal, instrumental, or piano emphasis will complete a half junior recital and a full senior recital. Music performance majors with a composition emphasis will complete a half junior recital on their primary instrument and a full senior recital in composition.

## Juries

Music majors and minors will be required to perform an end-of-semester jury in each semester of enrollment in either MUS251, MUS252, MUS351, or MUS352, unless a junior or senior recital is given in that semester.

## Upper-Division Qualification

Admission to upper division applied lessons and courses requires the passing of an upper division qualification on the music major's respective instrument or voice at the end of the sophomore year. This is done during the week of final exams. Each degree and concentration has its own requirements for achieving upper-division standing.

## Recital Attendance

Music majors and minors are required to attend all music department recitals in each semester of enrollment. Included are student junior and senior recitals, faculty recitals, departmental recitals, and guest recitals and lectures. Attendance is monitored through MUS020, which must be passed successfully a total of six semesters/times by all music majors.

## Music courses

### MUS020

#### Recital Attendance

Semester: Fall and Spring. Semester Hours: 0.

Music majors and minors are required to attend all departmental recitals throughout their program of study. Music majors and minors enrolled in MUS111, MUS112, MUS201, and MUS202 co-enroll in MUS020. Written reviews are required.

### MUS030

#### Junior Recital

Semester: Fall and Spring. Semester Hours: 0.

Junior recital.

### MUS040

#### Senior Recital

Semester: Fall and Spring. Semester Hours: 0.

Senior recital.

### MUS100

#### Elements of Music

Semester: On Demand. Semester Hours: 2.

This course provides an introduction to the fundamentals of music, including basic music reading (notation), rhythm, meter, and harmony. Not open to music majors.

### MUS101

#### Introduction to Music

Semester: On Demand. Semester Hours: 3.

This course provides a historical overview of the way music has developed in Western culture. It is designed for non-music majors and begins with the elements and principles of music, including notation, rhythm, melody, harmony, color, texture, and form. Students will develop listening skills and study selected pieces of music from a variety of periods in history to learn how they relate to the culture in which they were created. This course is not applicable to music major requirements, but it may be used to satisfy general education requirements.

### MUS111

#### Theory I

Semester: Fall. Semester Hours: 3.

This course examines the fundamental elements of music - melodic, rhythmic, harmonic - through hearing, playing and writing of theoretical material. Music majors and minors must concurrently enroll in MUS141. Music majors must concurrently enroll in the appropriate piano course as outlined in the "Piano Study" section.

### MUS112

#### Theory II

Semester: Spring. Semester Hours: 3.

This course examines the fundamental elements of music - melodic, rhythmic, harmonic - through hearing, playing, and writing of theoretical material. Aural perception of scales, intervals, and rhythmic patterns is developed further.

Prerequisite: MUS111

Corequisite: MUS142, if the prerequisites for that course have been met

### MUS131

#### Class Piano I

Semester: Fall. Semester Hours: 1.

This course is designed for the student with little to no previous piano experience. It introduces the keyboard, music reading in treble and bass clef, basic rhythm, theory, and technique. Students play easy repertoire pieces, harmonization, transposition, scales, and chord progressions. This course is designed for music majors to facilitate the piano proficiency exam and is open to non-majors space permitting.

### MUS132

#### Class Piano II

Semester: Spring. Semester Hours: 1.

This course is a continuation of MUS131.

Prerequisite: MUS131 or consent of the instructor

# Academic Programs

## **MUS140**

### **Introduction to Music of the World's Peoples**

Semester: Spring. Semester Hours: 3.

This course is an introduction to music from non-Western civilizations, including music from Montana, and is designed for both the non-music major and music education major. Students study how people make music in other cultures and how the product often becomes a basis of culture. In addition, students will develop listening skills and study selected pieces of music from a variety of geographic areas. This course is a requirement for music education majors, music minors, and can be used to satisfy general education requirements.

## **MUS141**

### **Musicianship I**

Semester: Fall. Semester Hours: 1.

Students develop skills in comprehensive musicianship through a variety of exercises in listening, dictation, sight-singing, and keyboard. Music majors and minors must concurrently enroll in MUS111.

## **MUS142**

### **Musicianship II**

Semester: Spring. Semester Hours: 1.

Students develop skills in comprehensive musicianship through a variety of exercises in listening, dictation, sight-singing, and keyboard.

Prerequisite: MUS111 and MUS141

## **MUS153**

### **Beginning Group Guitar**

Semester: Fall and Spring. Semester Hours: 1.

Group guitar is designed to acquaint the student with the basic knowledge of fretted guitar performance. Emphasis is placed on learning to tune and care for the instrument and acquiring the basic skills necessary to accompany folk songs and children's songs.

## **MUS201**

### **Music Through the Centuries I**

Semester: Fall. Semester Hours: 3.

This course provides a study of Western music history and literature from the medieval world through the cultural milieu of the Renaissance and Baroque eras.

## **MUS202**

### **Music Through the Centuries II**

Semester: Spring. Semester Hours: 3.

This course provides a study of Western music history and literature from the Rococo through contemporary compositional trends.

## **MUS204**

### **History of Jazz**

Semester: On Demand. Semester Hours: 3.

Students examine the evolution of jazz from its roots to contemporary trends. This course may be taken either at the lower-division or the upper-division level, but not both.

## **MUS205**

### **History of Rock**

Semester: On Demand. Semester Hours: 3.

Students study rock and roll, from its roots in blues through its social and musical evolution to the present day. Period context, performer personality, and extensive recorded examples constitute the course content. This course may be taken either at the lower-division or the upper-division level, but not both.

## **MUS211**

### **Theory III**

Semester: Fall. Semester Hours: 3.

Students are trained in more advanced melodic, harmonic, and rhythmic aspects of music through hearing, playing, and writing. Further ear training and sight singing of scales, harmonies, and intricacies are developed.

Prerequisite: MUS112

## **MUS212**

### **Theory IV**

Semester: Spring. Semester Hours: 3.

Students are trained in more advanced melodic, harmonic, and rhythmic aspects of music through hearing, playing, and writing. Further ear training and sight singing of scales, harmonies, and intricacies are developed.

Prerequisite: MUS211

## **MUS215**

### **Creativity**

Semester: Fall. Semester Hours: 3.

This course approaches creativity as a skill to develop, not as a magical gift bestowed on a few select people. The last three weeks of the course will be devoted to a large-scale project in an area chosen by the student at the time of registration. Two important elements of the course involve a specific style of journaling, and a weekly artist's date. Through the activities in this course, students will bring a higher degree of creativity to their daily lives. This course may be taken either at the lower-division level or at the upper-division level, but not both. This course is cross listed with ART 215.

## **MUS218**

### **Jazz Theory and Improvisation**

Semester: Fall, Odd Years. Semester Hours: 2.

A performance oriented course providing a basic understanding of jazz harmony, improvisation, and performance practice. Work in the course includes transcription, and small ensemble playing. Open to all instrumentalists with prior experience on keyboard, woodwind, brass, strings, guitar, or pitched percussion (xylophone and vibraphone).

## **MUS231**

### **Class Piano III**

Semester: Fall. Semester Hours: 1.

This course is a continuation of MUS132.

Prerequisite: MUS132 or consent of the instructor

## **MUS232**

### **Class Piano IV**

Semester: Spring. Semester Hours: 1.

This course is a continuation of MUS231. The piano proficiency exam is administered at the end of this course.

# Academic Programs

Prerequisite: MUS232 or consent of the instructor

## **MUS241**

### **Musicianship III**

Semester: Fall. Semester Hours: 1.

Students develop skills in comprehensive musicianship through a variety of exercises in listening, dictation, sight-singing, and keyboard.

## **MUS242**

### **Musicianship IV**

Semester: Spring. Semester Hours: 1.

Students develop skills in comprehensive musicianship through a variety of exercises in listening, dictation, sight-singing, and keyboard.

## **MUS251**

### **Applied Music**

Semester: Fall and Spring. Semester Hours: 1.

Private vocal and instrumental lessons are offered for music majors, music minors and non-music majors. In the area of instrumental music, instruction is offered on wind instruments, strings, percussion and keyboards. Majors and minors register for 200 level lessons prior to completion of upper-division qualification. Non-music majors register at the 200 level. Students who enroll for MUS351 receive 13 half-hour lessons. Specific lesson requirements for each major are listed with the descriptions of the major.

## **MUS252**

### **Applied Music**

Semester: Fall and Spring. Semester Hours: 2.

Private vocal and instrumental lessons are offered for music majors, music minors and non-music majors. In the area of instrumental music, instruction is offered on wind instruments, strings, percussion and keyboards. Majors and minors register for 200 level lessons prior to completion of upper-division qualification. Non-music majors register at the 200 level. Students who enroll for MUS352 receive 13 one-hour lessons or 26 half-hour lessons. Specific lesson requirements for each major are listed with the descriptions of the major.

## **MUS271**

### **Concert Choir**

Semester: Fall and Spring. Semester Hours: 1.

The Rocky Mountain College Choir is dedicated to the study and performance of choral literature. Repertoire will be selected from the history of Western choral music as well as contemporary literature and music from a global perspective. Although there is no prerequisite, students are expected to have had prior high school or collegiate experience in performing ensembles. Six semesters of concert band or concert choir will fulfill one three credit fine arts general education requirement.

## **MUS283**

### **Concert Band**

Semester: Fall and Spring. Semester Hours: 1.

The Rocky Mountain College Concert Band is dedicated to the study and performance of wind ensemble literature. Repertoire will be selected from the traditions of Western instrumental music and include music composed from a global perspective. In addition, the ensemble will perform at

a limited number of athletic events as a pep band. Students should have prior performing experience at the high school or college level on their instrument. Those who have not played in a high school or collegiate ensemble will need to complete an audition to enroll in the course. Six semesters of concert band or concert choir will fulfill one three-credit fine arts general education requirement.

Prerequisite: prior performing experience on the student's instrument

## **MUS286**

### **Jazz Ensemble**

Semester: Fall and Spring. Semester Hours: 1.

The jazz ensemble is dedicated to the study and performance of jazz literature and jazz improvisation. Repertoire will be selected from the global history of jazz. Although there is no prerequisite, students are expected to have had prior high school or collegiate experience in performing ensembles. Membership is by permission of professor.

## **MUS293**

### **Symphony Orchestra**

Semester: Fall and Spring. Semester Hours: 1.

Students participate in the Billings Symphony Orchestra under college supervision. Admission is only by audition and by contract with the Symphony. Auditions are typically held in the early spring before the concert season begins in the autumn.

## **MUS295**

### **Chamber Ensemble**

Semester: Fall and Spring. Semester Hours: 1.

Selected groups such as brass, woodwind, string, vocal, instrumental, piano, percussion, or other mixed combinations form with the intention of performing a specific musical genre.

## **MUS304**

### **History of Jazz**

Semester: On Demand. Semester Hours: 3.

For music majors. Students examine the evolution of jazz from its roots to contemporary trends. This course may be taken either at the lower-division or the upper-division level, but not both.

## **MUS305**

### **History of Rock**

Semester: On Demand. Semester Hours: 3.

For music majors. Students study rock and roll from its roots in blues through its social and musical evolution to the present day. Period context, performer personality, and extensive recorded examples constitute the course content. This course may be taken either at the lower-division or the upper-division level, but not both.

## **MUS311**

### **Counterpoint I**

Semester: On Demand. Semester Hours: 3.

This course emphasizes the reading and writing of polyphony, based upon 16th-century contrapuntal techniques.

Prerequisite: MUS212

# Academic Programs

## **MUS312**

### **Counterpoint II**

Semester: On Demand. Semester Hours: 3.

This course emphasizes the reading and writing of polyphony, based on 18th-century contrapuntal techniques.

Prerequisite: MUS311

## **MUS315**

### **Creativity**

Semester: Fall. Semester Hours: 3.

This course approaches creativity as a skill to develop, not as a magical gift bestowed on a few select people. The last three weeks of the course will be devoted to a large-scale project in an area chosen by the student at the time of registration. Two important elements of the course involve a specific style of journaling, and a weekly artist's date. Through the activities in this course, students will bring a higher degree of creativity to their daily lives. This course may be taken either at the lower-division or the upper-division level, but not both. This course is cross listed with ART 315.

## **MUS319**

### **Pedagogy of Voice**

Semester: Spring, Odd Years. Semester Hours: 3.

Use of the singing voice; basic principles of singing, physiology of breathing, tone production, resonance, diction; application of basic principles to the singing voice; pronunciation, articulation, intonation, attack of tone, legato and sostenuto, flexibility, and dynamics.

## **MUS320**

### **Pedagogy and Literature of Piano**

Semester: On Demand. Semester Hours: 2.

This course examines methods and materials for beginning to intermediate piano students and studies the practical aspects of teaching private lessons. Surveys of keyboard literature repertoire at the intermediate and advanced level and examinations of style, genre and performance practice is included.

## **MUS321**

### **Accompanying I**

Semester: On Demand. Semester Hours: 2.

This course offers study techniques for improving sight-reading skills at the keyboard with practical work in solo, duet, instrumental, ensemble, and choral literature. Students will learn score reading and transposition techniques as well as how to work with instrumentalists, vocalists, and ensembles. This course requires instructor consent and may be taken multiple times.

## **MUS322**

### **Accompanying II**

Semester: Spring, on demand. Semester Hours: 2.

This course is an overall study of the art of accompanying with an emphasis on working with vocalists, instrumentalists, ensembles, and repertoire. Requires weekly rehearsals and lessons with student vocalists and/or instrumentalists to be critiqued and coached by instructor.

Prerequisite: MUS321

## **MUS325**

### **Instrumental Methods I**

Semester: Fall, Even Years. Semester Hours: 3.

This course provides a comprehensive approach to the performance and pedagogy of brass and percussion instruments for music education majors in preparation for teaching elementary and secondary instrumental music. Trumpet, horn, trombone, baritone, euphonium, tuba, bass drum, snare drum, xylophone, marimba, cymbals, and drum set are some instruments covered in this course. Emphasis is on tone production, development of technical proficiency, understanding pedagogical principals, and basic instrument care and maintenance.

Prerequisite: MUS112, permission of the instructor

## **MUS326**

### **Instrumental Methods II**

Semester: Spring, Odd Years. Semester Hours: 3.

This course provides a comprehensive approach to the performance and pedagogy of string and woodwind instruments for music education majors in preparation for teaching elementary and secondary instrumental music. Flute, piccolo, oboe, bassoon, clarinet, saxophone, violin, viola, cello and string bass are some of the instruments covered in this course. Emphasis is placed on tone production, development of technical proficiency, the understanding of pedagogical principals, and basic instrument care and maintenance.

Prerequisite: MUS112, permission of the instructor

## **MUS344**

### **Methods and Materials: Teaching General Music in the Elementary School**

Semester: Fall. Semester Hours: 3.

This course provides a study of trends in philosophy, curriculum and program development, traditional instructional materials, Orff/Kodaly, and other innovative teaching techniques for elementary school and early childhood general music. This course is cross listed with EDC 344.

Prerequisite: K-12 music education major status and admission to the teacher education program

## **MUS351**

### **Applied Music**

Semester: Fall and Spring. Semester Hours: 1.

Private vocal and instrumental lessons are offered for music majors, music minors and non-music majors. In the area of instrumental music, instruction is offered on wind instruments, strings, percussion and keyboards. Majors and minors register for 200 level lessons prior to completion of upper-division qualification. Non-music majors register at the 200 level. Students who enroll for MUS351 receive 13 half-hour lessons. Specific lesson requirements for each major are listed with the descriptions of the major.

Prerequisite: upper-division standing in music

## **MUS352**

### **Applied Music**

Semester: Fall and Spring. Semester Hours: 2.

Private vocal and instrumental lessons are offered for music majors, music minors and non-music majors. In the area of instrumental music, instruction is offered on wind instruments, strings, percussion and keyboards. Majors and minors register for 200 level lessons prior to completion of

# Academic Programs

upper-division qualification. Non-music majors register at the 200 level. Students who enroll for MUS352 receive 13 one-hour lessons or 26 half-hour lessons. Specific lesson requirements for each major are listed with the descriptions of the major.  
Prerequisite: upper-division standing in music

## **MUS361**

### **Form and Analysis**

Semester: On Demand. Semester Hours: 3.

Analysis of melodic structures and homophonic forms of the common practice period including binary, ternary, rondo and sonata-allegro forms; analysis of contrapuntal forms of canon, motet and fugue; study of musical forms in the 20th century.

Prerequisite: MUS212

## **MUS362**

### **Orchestration and Arranging**

Semester: On Demand. Semester Hours: 3.

This course examines orchestration, transcription, and arranging for a variety of ensembles including full band and orchestra. The entire process is explored, including preparation of parts for performance.

## **MUS364**

### **Diction I**

Semester: Fall, Odd Years. Semester Hours: 2.

Study of fundamental principles of pronunciation and basic phonetic and structural understanding of the Italian and English languages. Accompanied by an introduction to IPA, the International Phonetic Alphabet. Participants will be expected to sing and perform relevant classical repertoire in these languages.

## **MUS365**

### **Diction II**

Semester: Spring, Even Years. Semester Hours: 2.

Study of fundamental principles of pronunciation and basic phonetic and structural understanding of the French and German languages. Participants will be expected to sing and perform relevant classical repertoire in these languages.

Prerequisite: MUS364

## **MUS371**

### **Concert Choir**

Semester: Fall and Spring. Semester Hours: 1.

The Rocky Mountain College Choir is dedicated to the study and performance of choral literature. Repertoire will be selected from the history of Western choral music as well as contemporary literature and music from a global perspective. Although there is no prerequisite, students are expected to have had prior high school or collegiate experience in performing ensembles. Six semesters of concert band or concert choir will fulfill one three-credit fine arts general education requirement.

Prerequisite: upper-division standing in music

## **MUS375**

### **Opera Workshop**

Semester: On Demand. Semester Hours: 1.

Students are involved with the production of chamber opera and opera scenes, or participate in a professional production of an opera as approved by the music faculty.

## **MUS383**

### **Concert Band**

Semester: Fall and Spring. Semester Hours: 1.

The Rocky Mountain College Concert Band is dedicated to the study and performance of wind ensemble literature. Repertoire will be selected from the traditions of Western instrumental music and include music composed from a global perspective. In addition, the ensemble will perform at

a limited number of athletic events as a pep band. Students should have prior performing experience at the high school or college level on their instrument. Those who have not played in a high school or collegiate ensemble will need to complete an audition to enroll in the course. Six semesters of concert band or concert choir will fulfill one three-credit fine arts general education requirement.

Prerequisite: prior performing experience on the student's instrument, upper-division standing in music

## **MUS386**

### **Jazz Ensemble**

Semester: Fall and Spring. Semester Hours: 1.

The jazz ensemble is dedicated to the study and performance of jazz literature and jazz improvisation. Repertoire will be selected from the global history of jazz. Although there is no prerequisite, students are expected to have had prior high school or collegiate experience in performing ensembles. Membership is by permission of professor.

Prerequisite: upper-division standing in music

## **MUS393**

### **Symphony Orchestra**

Semester: Fall and Spring. Semester Hours: 1.

Students participate in the Billings Symphony Orchestra under college supervision. Admission is only by audition and by contract with the Symphony. Auditions are typically held in the early spring before the concert season begins in the autumn.

## **MUS395**

### **Chamber Ensemble**

Semester: Fall and Spring. Semester Hours: 1.

Selected groups such as brass, woodwind, string, vocal, instrumental, piano, percussion, or other mixed combinations form with the intention of performing a specific musical genre.

Prerequisite: upper-division standing in music

## **MUS402**

### **Conducting**

Semester: Fall, Odd Years. Semester Hours: 3.

This course provides an introduction to the fundamentals of baton technique; choral, orchestral, and symphonic score reading; and choral and instrumental rehearsal and conducting techniques.

Prerequisite: MUS212

## **MUS406**

### **Choral Literature**

Semester: On Demand. Semester Hours: 3.

This course examines selected sacred and secular works of the choral repertoires. Emphasis is placed upon the practical realization of the works studied.

Prerequisite: MUS212

# Academic Programs

## MUS415

### **Methods and Materials: Teaching Music in the Secondary School**

Semester: Spring, Even Years. Semester Hours: 3.

This course is designed to prepare teachers to develop innovative secondary music programs and explores the philosophy, methodology, and materials for teaching band, orchestra, choir, and general music at the secondary level. This is a seminar-style course that covers a variety of topics, including conducting, classroom management, professionalism, rehearsal preparation, budgets, literature, marching band, jazz ensemble, concert choir, show choir, general music, and other aspects of running a music program. This class is designed to be one of the final classes taken in the music education curriculum.

Prerequisite: MUS212, MUS325, MUS326, MUS402, and EDC/MUS291E or EDC/MUS291S

## MUS450

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor of record and the office of career services. The internship should relate to the student's major or minor area of study. A contract is required.

Prerequisite: junior or senior standing

## MUS499

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## **Organizational Leadership**

*Clete Knaub, Assistant Professor*

This interdisciplinary minor covers a range of leadership concepts: self-management, which includes values, ethics, and attitudes; problem-solving; decision-making; and creative thinking skills; management of others, which includes creative and collaborative management; delegation; management of change; and communication and feedback; team management, which includes the development and growth of group dynamics; and the critical competency of leading by serving, which includes empathy, persuasion, foresight, humility, and the ethical use of power and influence.

### **Minor in Organizational Leadership**

24 total credits are required

IDS 483 Organizational Leadership

COM 250 Small Group Communication

ENG 325 Professional Writing

Choose one of the following:

BSA 321 Principles of Management

BSA/AVS 405 Air Transportation Management

BSA 421 Strategic Management

BSA 422 Production Operations and Management

Choose one of the following:

IDS 115 Qualities of a Leader

POL 220 Political Leadership

Choose one of the following:

BSA 356 Economic Decision Making

ECO 201 Macroeconomics

ECO 202 Microeconomics

Choose one of the following:

PHR 303 Ethics

PHR 340 Christian Ethics

BSA 412 Business Ethics

Choose one of the following:

PSY 101 General Psychology

SOC 101 Introduction to Sociology

## **Philosophy & Religious Thought**

*Jay Cassel, Professor*

*David Strong, Professor*

*Elizabeth McNamer, Assistant Professor*

Literally, "philosophy" means "love of wisdom." Pursuing wisdom through carefully reasoned reflection, philosophy inquires into questions concerning the meaning of life, virtue, morality, freedom, God, and death. Religious thinkers ask the same questions, but in the context of religious traditions and sacred texts. On more theoretical levels, philosophy is concerned with reality and knowledge, often examining the unstated assumptions underlying other disciplines. Both religion and philosophy are vitally interested in ethics.

This combined program is designed to give students an introduction to the issues of religious thought and philosophy; to allow them to investigate the philosophical and religious implications of what they are studying, doing, and thinking; and to prepare majors for a wide variety of possible further study, including graduate school, seminary, or professional fields such as law school. We encourage capable students to double major in philosophy and religious thought and some other field, such as English education.

### **Major in Philosophy & Religious Thought**

A minimum of 27 semester hours, selected in consultation with department faculty, normally to include at least one course in the Biblical tradition.

Choose at least one of the following:

PHR210 Genres of Biblical Literature

PHR220 Jesus

PHR310 Issues in Biblical Scholarship

Choose at least one of the following:

PHR211 Ancient Philosophy

PHR212 Modern Philosophy

PHR312 Modern Philosophy (continuation of PHR212)

PHR321 Major Philosophical Figures

PHR375 Styles of Contemporary Philosophy

PHR378 Philosophy of Technology and Modern Culture

Choose one of the following:



# Academic Programs

PHR303 Ethics  
PHR304 Environmental Ethics  
PHR340 Christian Ethics

At least one course at the 400-level. Students considering graduate school are urged to do an independent project (PHR499).

## Minor in Philosophy & Religious Thought

A minimum of 18 semester hours, at least 15 above the 100-level and nine above the 200-level, normally to include one course in ethics:

PHR303 Ethics  
PHR 304 Environmental Ethics  
PHR 340 Christian Ethics

## Philosophy & Religious Thought courses

### PHR100

#### Introduction to Philosophy and Religious Thought

Semester: Fall and Spring. Semester Hours: 3.

This course attempts to address the question "Does thinking about the meaning of one's life help us live better?" by studying a particular issue and some thought-provoking responses to it. The particular issue and texts will vary from year to year. Not open to juniors and seniors without instructor's permission.

### PHR120

#### Classic Texts in Western Thought

Semester: Fall, Alternate Years. Semester Hours: 3.

Intensive readings in primary texts crucial to the Western tradition. Students will read from such authors as Homer, the Bible, the Greek dramatists, Plato, Aristotle, Augustine, Dante, Shakespeare, Hobbes, Freud, and Nietzsche.

### PHR205

#### Logic

Semester: On Demand. Semester Hours: 3.

An introductory course in the principles and methods used to distinguish correct from incorrect reasoning. This course aims to help students think and read critically and to write argumentative papers. Both inductive and deductive logic will be studied.

### PHR210

#### Genres of Biblical Literature

Semester: Fall and Spring. Semester Hours: 3.

This course provides an investigation of one specific genre of Biblical literature. Students have recently studied Biblical narrative, Gospels, the Psalms and Paul.

### PHR211

#### Ancient Philosophy

Semester: Fall, Alternate Years. Semester Hours: 3.

This course introduces students to some great primary philosophical texts of the Western tradition, such as Plato's Republic, and provides them with an overview of philosophy during this early period of its development.

### PHR212

#### Modern Philosophy

Semester: Spring, Alternate Years. Semester Hours: 3.

Students examine a study of major philosophers, ideas, and movements in philosophy from the Renaissance through the

nineteenth century. This course is a continuation of Greek and Early Christian Philosophy and will be similarly designed to promote a study of primary texts from Descartes, Hume, Kant, and others, as well as to present an overview of the period from secondary sources.

### PHR218

#### Topics in Catholicism

Semester: Spring. Semester Hours: 3.

This course explores the central principles of the Catholic religion. From year to year the course focuses on a different aspect of Catholicism. Topics covered might include the creation of basic beliefs in the first three centuries, issues in modern Catholic thinking, Catholics and the Bible, a history of the Church, or great figures in Catholicism.

### PHR220

#### Jesus

Semester: Fall, Every Three Years. Semester Hours: 3.

Students will look at both Biblical sources and modern literary and theological interpretations to answer the question "Who was, or is, Jesus?" Questions to be addressed include the quest for the "historical Jesus," classical and contemporary christology, and hermeneutics of Biblical texts.

### PHR236

#### Religions of The World

Semester: On Demand. Semester Hours: 3.

This course examines the central religious principles and ideas of major non-Christian religions. From year to year, the focus may be on different religions or areas of the world.

### PHR303

#### Ethics

Semester: Spring, Alternate Years. Semester Hours: 3.

A study relating ethics, as traditionally conceived in philosophy, to one or more current philosophical works in ethics. This course will provide students with a solid background in ethics from Plato to Nietzsche. A discussion of a contemporary work in ethics will introduce students to topics that may be covered in depth in later seminars.

### PHR304

#### Environmental Ethics

Semester: Spring, Alternate Years. Semester Hours: 3.

This course will address issues such as whether natural beings and the natural world have rights or whether only humans have rights. Students will determine what is ethically appropriate for humans in their relationship with the environment as well as what environmental ethics must take account of to be consequential in the world today.

### PHR310

#### Issues in Biblical Scholarship

Semester: Fall, Every Three Years. Semester Hours: 3.

This course provides an introduction to a current problem in Biblical study and scholarship. Examples of topics are apocalyptic literature; narrative studies; Biblical hermeneutics, text, and history; and Biblical theology. Where PHR210 concentrates on the Biblical texts themselves, PHR310 introduces students to the way contemporary scholars study the Bible.

# Academic Programs

## **PHR312**

### **Modern Philosophy**

Semester: Spring, Every Three Years. Semester Hours: 3.  
Students examine a study of major philosophers, ideas, and movements in philosophy from the Renaissance through the nineteenth century. This course is a continuation of PHR211 and will be similarly designed to promote a study of primary texts from Descartes, Hume, Kant, and others, as well as to present an overview of the period from secondary sources.

## **PHR317**

### **Archaeology and Philosophy of the Holy Land**

Semester: Summer. Semester Hours: 6.  
This course is designed for students participating in the Bethsaida Excavation and tour of selected sites in Israel. Students will engage in activities including excavating at the site; attending pottery reading, laboratory and evening lectures at the kibbutz; learning archaeological methodology; and learning about kibbutz living on the Galilee. Students are also expected to participate in all guided group tours of important sites and museums in Israel.

## **PHR320**

### **Major Religious Figures**

Semester: Fall, Alternate Years. Semester Hours: 3.  
This course provides a study of the writings and the life of a major religious thinker in the Western tradition. Examples might be Luther, Augustine, or C. S. Lewis. In each case, students will relate the thinker to the general history of Judaeo-Christian thought. This course may be taken more than once.

## **PHR321**

### **Major Philosophical Figures**

Semester: On Demand. Semester Hours: 3.  
This course provides a study of the writings and, in some cases, the life of a major philosophical thinker in the Western tradition.

## **PHR330**

### **Movies, Morals, and Meaning**

Semester: On Demand. Semester Hours: 3.  
Analysis of several classic and modern films to understand their implications for ethics, religious meaning, and the nature of humanity. We will study films like *The Maltese Falcon*, *Paths of Glory*, *The Godfather*, *Crimes and Misdemeanors*, and *Jesus of Montreal*.

## **PHR340**

### **Christian Ethics**

Semester: Spring, Alternate Years. Semester Hours: 3.  
How can a Christian make moral decisions? We will study the biblical basis for ethics, and several modern Christian ethicists to understand how they move from the beliefs of Christianity to recommendations for specific ethical action.

## **PHR362**

### **Theology and Christian Beliefs**

Semester: Fall, Every Three Years. Semester Hours: 3.  
What does it mean to believe in God? When we talk about God, are we talking about anything more than ourselves and our ideals and aspirations? This course investigates classical and modern Christian answers to this basic question.

## **PHR370**

### **Religion and Literature**

Semester: Spring, Alternate Years. Semester Hours: 3.  
A study of religious issues, conflict, and hopes in modern literature. The works read will vary from year to year but will include such authors as Melville, Tolstoy, Hemingway, Flannery O'Connor, and John Updike. This course is cross listed with ENG 370.

## **PHR375**

### **Styles of Contemporary Philosophy**

Semester: Fall, Alternate Years. Semester Hours: 3.  
The 20th century is characterized by a plurality of philosophical styles such as postmodernism, phenomenology, existentialism, hermeneutics, deconstruction, analytic philosophy, pragmatism, and systematic philosophy. This course involves intensive study and critical evaluation of one or two of these styles.

## **PHR378**

### **Philosophy of Technology and Modern Culture**

Semester: Fall, Alternate Years. Semester Hours: 3.  
It is often a difficult task to understand one's own culture and age. Recent philosophical work offers profound insights into our age and places these insights within a much wider context.

## **PHR421**

### **Philosophy of Religion**

Semester: Fall, Every Three Years. Semester Hours: 3.  
This course provides an investigation of some of the crucial philosophical ideas about religion. Students will study such issues as the idea of God, the arguments for and against the existence of God, the idea of revelation, and the problem of religious language.

## **PHR450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.  
This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. The internship should relate to the student's major or minor area of study. Contract is required.  
Prerequisite: junior or senior standing

## **PHR460**

### **Issues in Contemporary Religious Thought**

Semester: Fall, Every Three Years. Semester Hours: 3.  
This course provides an inquiry into major issues in current theology and new interpretations of basic religious ideas and texts. The specific content of this course will vary from year to year.

## **PHR483**

### **Senior Project**

Semester: On Demand. Semester Hours: 1-3.  
Students complete a senior project in consultation with a faculty member.

## **PHR490**

### **Seminar**

Semester: On Demand. Semester Hours: 2-3.  
Intensive study of a selected area or figure in philosophy or religion is explored.

# Academic Programs

## **PHR499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## **Physical Education & Health**

*Clarece M. Lacy, Professor*

*Paul A. Roper, Professor*

*Amanda Botnen, Visiting Assistant Professor*

The physical education and health program examines the many dimensions of health and human performance. The major goal of the program is to enable students to make informed health decisions. The program prepares students to become competent entry-level professionals, as well as advanced study candidates.

To achieve these outcomes, the student will analyze the structure and function of the human body, apply physiological and biomechanical concepts to human movement, examine the acquisition of motor skills, explore the multi-dimensional nature of the health and human performance discipline, examine ethical issues and culturally diverse values related to the discipline, achieve the specific physical skills required to be competent in their profession, acquire a lifelong quest for knowledge, and develop a commitment to act responsibly in one's profession and on behalf of one's community.

The physical education and health program offers varied opportunities for guided work experiences with schools, hospitals, sports medicine clinics, wellness centers, corporate fitness programs, and fitness facilities. These capstone opportunities allow students to express their multidisciplinary education by applying creative problem solving and communication skills in professional settings.

### **Major in Physical Education & Health**

Five options are offered under the major:

Athletic Training

K-12 Education

Exercise Science

Physical Education and Health Studies

Sport Management

### **Athletic Training Option**

A minimum of 43 semester hours is required, including:

- PEH122 First Aid/ CPR/ Safety Education
- PEH181 Athletic Training Field Practicum
- PEH182 Athletic Training Field Practicum
- PEH204 Foundations of Human Structure and Functions
- PEH210 Health and Wellness
- PEH211 Nutrition
- PEH222 Beginning Athletic Training
- PEH281 Athletic Training Field Practicum
- PEH282 Athletic Training Field Practicum
- PEH320 Biomechanics
- PEH322 Advanced Athletic Training
- PEH345 Fitness Science
- PEH356 Physiology of Exercise

PEH425 Therapeutic Rehabilitation and Modalities

PEH481 Athletic Training Field Practicum

Choose one of the following:

PEH381 Athletic Training Field Practicum

PEH382 Athletic Training Field Practicum

Other related requirements:

PHA247 Medical Terminology

PSY101 General Psychology

(Note: BIO321 may substitute for PEH204.)

This program is designed to prepare students for an entry-level graduate program in athletic training that will lead to eligibility to sit for the National Athletic Training Association Board of Certification examination. The coursework will establish a knowledge base in sports medicine and develop techniques in sports injury evaluation, management, and rehabilitation.

### **K-12 Education Option**

A minimum of 43 semester hours is required, including:

PAC108 Swimming

PEH106 Professional Activities I

PEH107 Professional Activities II

PEH122 First Aid/CPR/Safety Education

PEH210 Health and Wellness

PEH211 Nutrition

PEH222 Beginning Athletic Training

PEH315 Motor Learning

PEH320 Biomechanics

PEH356 Physiology of Exercise

PEH391 Field Practicum

PEH412 Management of Health Enhancement and Sport Programs

PEH420 Methods and Materials: Teaching Secondary Health Enhancement

PEH421 Historical and Contemporary Issues in Sport Sociology

PEH441 Measurement and Evaluation in Health Enhancement and Exercise Science

EDC341 Methods and Materials: Teaching Health in the Elementary School

EDC342 Methods and Materials: Teaching Physical Education in the Elementary School

COM102 Public Speaking

Choose one of the following:

BIO321 Human Anatomy and Physiology

PEH204 Foundations of Human Structure and Function

This option meets Montana's health certification requirements. In addition, students must complete the professional education program for K-12 education majors as described in the "education" section of the catalog. Students seeking an endorsement in K-12 physical education must earn a minimum grade of "C" in all required PEH courses, including prerequisites.

# Academic Programs

## Exercise Science Option

A minimum of 44 semester hours is required, including three semester hours chosen from PAC activities (in consultation with department faculty):

PEH122	First Aid/CPR/Safety Education
PEH210	Health and Wellness
PEH211	Nutrition
PEH222	Beginning Athletic Training
PEH315	Motor Learning
PEH320	Biomechanics
PEH343	Psychology of Physical Activity and Exercise
PEH345	Fitness Science
PEH356	Physiology of Exercise
PEH412	Management of Health Enhancement and Sport Programs
PEH441	Measurement and Evaluation in Health Enhancement and Exercise Science
PEH450	Internship
PEH490	Senior Seminar

Choose one of the following:

PEH204	Foundations of Human Structure and Function
BIO321	Human Anatomy and Physiology I

Certification either as a health/fitness instructor by the American College of Sports Medicine or as a certified strength and conditioning specialist by the National Strength and Conditioning Association is strongly recommended. This option is designed to prepare individuals for work with fitness and health promotion programs in corporate, community, hospital, and health club settings.

## Physical Education & Health Studies Option

A minimum of 35 semester hours is required, including four semester hours chosen from PAC activities. Six semester hours of electives approved by faculty in the program. This option requires a core of foundation courses with electives to be chosen dependent upon the student's career goal.

PEH122	First Aid/CPR/Safety Education
PEH210	Health and Wellness
PEH222	Beginning Athletic Training
PEH315	Motor Learning
PEH320	Biomechanics
PEH356	Physiology of Exercise
PEH412	Management of Health Enhancement and Sport Programs
PEH450	Internship
PEH490	Senior Seminar

Choose one of the following:

PEH106	Professional Activities I
PEH107	Professional Activities II

Choose one of the following:

BIO321	Human Anatomy and Physiology I
PEH204	Foundations of Human Structure and Function

## Sport Management Option

A minimum of 47 semester hours is required, including:

BSA201	Principles of Accounting I
BSA202	Principles of Accounting II

BSA321	Principles of Management
BSA331	Business Law
BSA343	Principles of Marketing
BSA362	Professional Sales
BSA371	Managerial Accounting
PEH300	Current Issues and Practices in Coaching
PEH412	Management of Health Enhancement and Sport Programs
PEH421	Historical and Contemporary Issues in Sports Sociology
COM102	Public Speaking
COM306	Organizational Communication
PSY101	General Psychology
SOC101	Introduction to Sociology

Choose one of the following:

BSA450	Internship
PEH450	Internship

Choose one of the following:

ECO201	Principles of Macroeconomics
ECO202	Principles of Microeconomics

## Minor in Physical Education & Health

Three options are offered under the minor in physical education and health:

Athletic Training
Coaching
Physical Education & Health Studies

## Athletic Training Option

A minimum of 25 semester hours is required, including:

PEH122	First Aid/CPR/Safety Education
PEH204	Foundations of Human Structure and Functions
PEH210	Health and Wellness
PEH222	Beginning Athletic Training
PEH281	Athletic Training Field Practicum
PEH322	Advanced Athletic Training
PEH425	Therapeutic Rehabilitation and Modalities
PEH481	Athletic Training Field Practicum

Choose one of the following:

PEH381	Athletic Training Field Practicum
PEH382	Athletic Training Field Practicum

This option includes 600 hours working with a certified trainer and is designed to complement a major in areas such as teacher education, psychology, exercise science, and physician's assistant. The coursework will establish a knowledge base in sports medicine and develop techniques in sports injury evaluation, management, and rehabilitation.

## Coaching Option

A minimum of 25 semester hours is required, including:

PEH122	First Aid/CPR/Safety Education
PEH222	Beginning Athletic Training
PEH300	Current Issues and Practices in Coaching
PEH315	Motor Learning
PEH320	Biomechanics
PEH344	Sports Psychology
PEH356	Physiology of Exercise

# Academic Programs

PEH412 Management of Health Enhancement and Sport Program

Choose two of the following:

PEH301 Officiating High School Sports  
PEH302 Basketball Coaching  
PEH303 Football Coaching  
PEH305 Track and Field Coaching  
PEH306 Volleyball Coaching  
PEH307 Baseball and Softball Coaching  
PEH311 Soccer Coaching

Many state education departments do not require a coach to be a certified teacher but do require that coaches meet qualification standards. This option prepares students to meet those qualification standards.

## Physical Education & Health Studies Option

A minimum of 25 semester hours is required, including three semester hours chosen from PAC activities. This option, when combined with majors such as business or psychology, allows the student to prepare for physical education-related careers.

PEH122 First Aid/CPR/Safety Education  
PEH204 Foundations of Human Structure and Function  
PEH210 Health and Wellness  
PEH222 Beginning Athletic Training  
PEH320 Biomechanics  
PEH356 Physiology of Exercise  
PEH412 Management of Health Enhancement and Sport Programs

Choose one of the following:

PEH106 Professional Activities I  
PEH107 Professional Activities II

## 3+2 Athletic Training Program

The 3+2 Athletic Training program allows students to complete 3 years of course requirements at Rocky Mountain College and then transfer to MSU Billings (MSU-B) and enroll in the 2-year entry-level master's program in Athletic Training. After successful completion of the first year at MSU-B, the student will be awarded a Bachelor's degree from Rocky Mountain College. After completing the program at MSU-B, the student will be awarded the Master of Athletic Training degree. Students entering this program at Rocky, must major in Exercise Science and minor in Athletic Training, and must complete the pre-requisites for the Master's program at MSU-B.

Required courses: Exercise Science:

Three semester hours of Physical Activity courses (PAC)

PEH122 First Aid/CPR/Safety Education  
PEH210 Health and Wellness  
PEH211 Nutrition  
PEH222 Beginning Athletic Training  
PEH315 Motor Learning  
PEH320 Biomechanics  
PEH322 Advanced Athletic Training  
PEH343 Psychology of Physical Activity and Exercise  
PEH345 Fitness Science  
PEH356 Physiology of Exercise

PEH412 Management of Health Enhancement and Sport Programs

PEH425 Therapeutic Rehabilitation and Modalities  
PEH441 Measurement and Evaluation in Health Enhancement and Exercise Science  
PEH450 Internship

Choose one of the following:

PEH181 Athletic Training Field Practicum  
PEH182 Athletic Training Field Practicum  
PEH281 Athletic Training Field Practicum  
PEH282 Athletic Training Field Practicum  
PEH381 Athletic Training Field Practicum  
PEH382 Athletic Training Field Practicum  
PEH481 Athletic Training Field Practicum  
PEH482 Athletic Training Field Practicum

Related Requirements: 8 credits of Anatomy and Physiology.

## Physical Education & Health courses

### PEH Activities

Semester: Fall and Spring. Semester Hours: 1.

Fall semester and spring semester. 1 semester hour.

Select from a variety of activities. A specific activity may be taken twice for credit. Pass/no pass. No more than eight PEH activity credits may count toward graduation. This rule does not apply to activities required in a PEH major.

PAC101 Strength Conditioning for Football  
PAC102 Weight Conditioning for Football  
PAC103 Conditioning for Men's Basketball  
PAC104 Conditioning for Women's Basketball  
PAC105 Strength Conditioning for Skiers  
PAC106 Conditioning for Soccer  
PAC107 Conditioning for Volleyball  
PAC108 Swimming  
PAC109 Step/Pilates/Water Aerobics  
PAC110 Cardio Resistance Training  
PAC111 Karate  
PAC112 Team Activities  
PAC113 Racquet Sports  
PAC114 Scuba  
PAC115 Strength Training for Women  
PAC116 Fitness for Life  
PAC117 Hiking/Photography Weekend in Yellowstone  
PAC118 Bicycle in the Beartooths  
PAC119 Winter Break Ski Adventure  
PAC120 Leave No Trace Camping  
PAC121 Wilderness First Aid  
PAC122 Big Sky Ski Weekend  
PAC123 Red Lodge Ski Weekend  
PAC124 Beginning Ski/Snowboarding  
PAC125 Hot Springs/Geysers in Yellowstone  
PAC126 Rock Climbing  
PAC127 Cross Country Ski Weekend  
PAC128 Ice Climbing  
PAC129 Kayaking  
PAC130 Fly Fishing  
PAC131 Yoga  
PAC132 Beginning Tennis

# Academic Programs

## **PEH100**

### **Varsity Sports**

Semester: Fall and Spring. Semester Hours: 1.

Students can elect to obtain credit for conditioning and participation in varsity sports.

## **PEH106**

### **Professional Activities I**

Semester: Fall. Semester Hours: 3.

This course is designed to introduce and direct students toward a level of proficiency in team-sports activities such as soccer and team-handball, and individual sport activities such as badminton and pickleball. Students are expected to show increases in, and are assessed on, their level of skill, knowledge of rules, and application of strategies within each activity.

## **PEH107**

### **Professional Activities II**

Semester: Spring. Semester Hours: 3.

This course is designed to introduce and direct students toward a level of proficiency in the following life-time and fitness activities: orienteering, ultimate frisbee, cooperative activities, American Indian and multi-cultural games, fitness testing, and educational gymnastics. Students are expected to show increases in, and are assessed on, their level of skill, knowledge of rules, and application of strategies within each activity.

## **PEH115**

### **Introduction to Wellness Concepts**

Semester: Fall and Spring. Semester Hours: 1.

Becoming fit and well affects the quality of one's life. Through class sessions and activity labs, students evaluate their fitness and plan for and initiate change in their exercise habits. Additional topics include nutrition and weight management, risk factor analysis and control, and major wellness concerns.

## **PEH122**

### **First Aid/CPR/Safety Education**

Semester: Fall and Spring. Semester Hours: 2.

This course focuses on the procedures and practices for emergency care in the case of accident or sudden illness, and awareness of safety and accident prevention. Upon successful completion of this course, students earn certification in first aid through the American Red Cross and certification in CPR through the American Heart Association.

## **PEH181**

### **Athletic Training Field Practicum**

Semester: Fall. Semester Hours: 2.

Students complete 100 clinical hours under the supervision of a certified trainer.

Corequisite: PEH222

## **PEH182**

### **Athletic Training Field Practicum**

Semester: Spring. Semester Hours: 2.

Students complete 100 clinical hours under the supervision of a certified trainer.

Corequisite: PEH222

## **PEH204**

### **Foundations of Human Structure and Function**

Semester: Fall and Spring. Semester Hours: 4.

Students examine the basic foundations and functions of the human body, including the skeletal, muscular, nervous, cardiovascular, digestive, and respiratory systems. Lab experiences focus on the nomenclature, structure, and function of these systems.

## **PEH210**

### **Health and Wellness**

Semester: Fall and Spring. Semester Hours: 4.

Topics include community/environmental health, consumer issues, death and dying, healthy lifestyles, infectious diseases, medical ethics, psychological health, risk factor management, sexuality, and substance abuse.

## **PEH211**

### **Nutrition**

Semester: Fall and Spring. Semester Hours: 3.

This course focuses on the essential nutrients and their principal sources and functions; the assessment, analysis, and modification of dietary intake; the relationship between nutrition and fitness; and the stages of the life cycle. This is not a chemistry-based course.

## **PEH222**

### **Beginning Athletic Training**

Semester: Fall and Spring. Semester Hours: 3.

Students learn procedures and practices in prevention, immediate care, treatment, and rehabilitation of injuries and sudden illness. Topics include taping, bandaging, and conditioning for athletic competition.

## **PEH281**

### **Athletic Training Field Practicum**

Semester: Fall. Semester Hours: 2.

Students complete 200 clinical hours under the supervision of a certified trainer.

Corequisite: PEH222

## **PEH282**

### **Athletic Training Field Practicum**

Semester: Spring. Semester Hours: 2.

Students complete 200 clinical hours under the supervision of a certified trainer.

Corequisite: PEH222

## **PEH300**

### **Current Issues and Practices in Coaching**

Semester: Spring, Odd Years. Semester Hours: 2.

Topics include philosophy, sport psychology and sociology, and team management skills. Course includes ACEP certification materials.

## **PEH301**

### **Officiating High School Sports**

Semester: Fall. Semester Hours: 2.

Students demonstrate knowledge and practical skills in officiating a minimum of three high school sports from the following: football, soccer, volleyball, basketball, softball and wrestling. Upon successful completion of the course, students can be certified by the Montana Officials' Association, which permits im-

# Academic Programs

mediate employment as middle school, high school, or youth sports officials.

## **PEH302**

### **Basketball Coaching**

Semester: Spring. Semester Hours: 2.

Coaching theories of basketball are examined, including fundamentals, techniques, strategies, practice sessions, utilization of personnel, and the ethics of coaching.

## **PEH303**

### **Football Coaching**

Semester: Fall, Even Years. Semester Hours: 2.

Coaching theories of football are examined, including skills, systems of play, practice sessions, strategies, conditioning, personnel utilization, off-season programs, and the ethics of coaching.

## **PEH305**

### **Track and Field Coaching**

Semester: On Demand. Semester Hours: 2.

Students examine the following topics: mechanical analysis of track and field events; conditioning and training methods; teaching, coaching, and officiating techniques including practical experience in these areas; and management of track and field meets.

## **PEH306**

### **Volleyball Coaching**

Semester: Fall, Even Years. Semester Hours: 2.

Mechanical analysis and study of coaching theories, including but not limited to skills, strategies, and systems of play.

## **PEH307**

### **Baseball and Softball Coaching**

Semester: On Demand. Semester Hours: 2.

Theories of coaching baseball and softball are examined, including skills, strategies, practice sessions, conditioning, teaching, and coaching the young athlete.

## **PEH311**

### **Soccer Coaching**

Semester: On Demand. Semester Hours: 2.

Theories of coaching soccer are examined, including skills, strategies, practice sessions, conditioning, teaching, and coaching the young athlete.

## **PEH315**

### **Motor Learning**

Semester: Spring. Semester Hours: 2.

This course focuses on the factors that influence the learning of motor skills. Content includes features of skill development, processes of perception, and components of action as these relate to the acquisition and teaching of goal-directed movement. Practical application of theory is a central part of the course.

## **PEH320**

### **Biomechanics**

Semester: Fall. Semester Hours: 3.

This course focuses on the principles of human movement. Emphasis is placed on demonstrating the ability to analyze human motion in terms of improving human movement performance.

Included are concepts of biological/mechanical aspects of musculoskeletal structures.

Prerequisite: BIO321 or PEH204

## **PEH322**

### **Advanced Athletic Training**

Semester: Spring, Even Years. Semester Hours: 3.

This course includes techniques of rehabilitation, use of modalities, advanced techniques of injury evaluation, advanced taping techniques, administration and management of injuries and provides hands-on experience required under the supervision of an ATC (certified athletic trainer).

Prerequisite: PEH204 or BIO321, PEH222, PEH356, and approval of the program advisor

## **PEH342**

### **Methods and Materials: Teaching Physical Education in the Elementary School**

Semester: Spring. Semester Hours: 3.

This course provides competency in the delivery and evaluation of planned learning programs for elementary school children. Content will include knowledge of the physiological, psychological, and motor developmental needs of elementary-age children and the implication for curriculum development and implementation. Includes experience working with children in an on-campus Saturday morning program.

Prerequisite: admission to teacher education program or permission of instructor; this course is for PE majors only

## **PEH343**

### **Psychology of Physical Activity and Exercise**

Semester: Fall. Semester Hours: 3.

The purpose of this course is to promote understanding of psychological theory, research, and intervention strategies in psychology of physical activity and exercise. In studying both theory and practice, students are expected to develop their own views and ideas within the realm of their chosen field. The exchange and development of ideas is encouraged and at the same time grounded in the current knowledge base in this field. Students are expected to undertake extensive reviews within various health fields.

## **PEH344**

### **Sports Psychology**

Semester: Spring. Semester Hours: 3.

Sport psychology is the scientific study of people and their behavior in sport, and is concerned with the psychological determinants of behavior in movement situations, as well as the psychological effects of sport engagement. This course would address the fundamental areas within sports psychology, including, but not be limited to, the following topics motivation, attributions, imagery, goal setting, confidence, attentional focus, team cohesion, leadership, anxiety and stress. Students taking this course will be expected to demonstrate understanding of, and the application of the topic when coaching children and youth.

## **PEH345**

### **Fitness Science**

Semester: Spring. Semester Hours: 3.

In this course students examine the various aspects of health-related fitness and the relationship of fitness to health. The course includes an individual fitness assessment, development of exer-

# Academic Programs

cise programs, and proper exercise technique. Students become prepared for the American College of Sports Medicine certification exam as a health/fitness instructor. Prerequisite: PEH204, PEH210, PEH211

## **PEH356**

### **Physiology of Exercise**

Semester: Spring. Semester Hours: 3.

Students explore the effects of exercise on the cardio respiratory and neuromuscular systems. Physiological aspects of various training methods are examined. Laboratory experience is included.

## **PEH381**

### **Athletic Training Field Practicum**

Semester: Fall. Semester Hours: 2.

Students complete 200 clinical hours under the supervision of a certified trainer.

Prerequisite: PEH281 or PEH282

Corequisite: PEH322

## **PEH382**

### **Athletic Training Field Practicum**

Semester: Spring. Semester Hours: 2.

Students complete 200 clinical hours under the supervision of a certified trainer.

Prerequisite: PEH281 or PEH282

Corequisite: PEH322

## **PEH391**

### **Field Practicum**

Semester: On Demand. Semester Hours: 1.

Forty-five hours of experience on the job are required for one semester hour of credit. Majors in the K-12 education option can register for one credit earned as a teaching assistant in PEH115.

## **PEH412**

### **Management of Health Enhancement and Sport Programs**

Semester: Spring. Semester Hours: 3.

Students explore the organization, supervision, and administration of various health enhancement and sport programs.

## **PEH420**

### **Methods and Materials: Teaching Secondary Health Enhancement**

Semester: On Demand. Semester Hours: 3.

This course requires focused study and consultation with a public school physical education and health teacher, or other acceptable professional. Hours will be arranged in consultation with the content area professor, the secondary education professor, the student, and the professional mentor. This course provides competence for delivery and evaluation of planned learning activities. Areas of concentration include emotional/mental health, healthy lifestyles, nutrition, weight control, community/ environmental health, medical ethical issues, team and individual activities, lifetime sports, cooperative games, and fitness activities.

Prerequisite: admission to the teacher education program, senior standing, PEH105, PEH106, PEH107, PEH210, PEH211

## **PEH421**

### **Historical and Contemporary Issues in Sport Sociology**

Semester: Spring, Odd Years. Semester Hours: 3.

This course focuses on the study of historical and contemporary issues affecting physical education and sport, including ethical and gender issues.

## **PEH425**

### **Therapeutic Rehabilitation and Modalities**

Semester: Spring, Odd Years. Semester Hours: 3.

The modalities portion of this course presents the theoretical and applied principles and techniques for the application of modalities in sports injury care. The rehabilitation portion is designed to explain the principles and apply the techniques of rehabilitation as they relate to athletic injury.

Corequisite: PEH322

## **PEH441**

### **Measurement & Evaluation in Health Enhancement and Exercise Science**

Semester: Fall. Semester Hours: 2.

This course is designed to introduce students to, and engage them in, the process of measurement and evaluation as applied to the fields of health enhancement and exercise science. The course introduces students to the application of statistics, tests and measurement, report compilation, and interpretation of data. Students examine various types of assessment and test instrument design.

## **PEH450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

Guided work experience in cooperation with an established health-related program. Forty-five hours of experience on the job are required for one hour of credit. Students in the exercise science option are required to earn seven credits in an off-campus program, and one credit as a teaching assistant in PEH115. The student must arrange the internship in agreement with the instructor and the office of career services. Contract is required.

Prerequisite: junior or senior standing

## **PEH475**

### **Advanced Theories of Strength Training and Conditioning**

Semester: Spring. Semester Hours: 2.

This course prepares students for the National Strength and Conditioning Association's certification exam as a certified strength and conditioning specialist.

Prerequisite: PEH122, PEH222, PEH320, PEH345, PEH356, and PEH441

## **PEH481**

### **Athletic Training Field Practicum**

Semester: Fall. Semester Hours: 2.

Students complete 200 clinical hours under the supervision of a certified trainer.

Prerequisite: PEH281 or PEH282

Corequisite: PEH322



# Academic Programs

## PEH482

### Athletic Training Field Practicum

Semester: Spring. Semester Hours: 2.

Students complete 200 clinical hours under the supervision of a certified trainer.

Prerequisite: PEH281 or PEH282

Corequisite: PEH322

## PEH490

### Senior Seminar

Semester: Fall. Semester Hours: 2.

This course encourages senior students in health and physical education to develop job marketing and search skills, as well as prepare for graduate school or a professional career.

## PEH499

### Independent Study

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater. Prerequisite: junior or senior standing

## Physician Assistant Studies

*Robert Wilmouth, MD, FACS Program Director, Associate Professor-M.D. University of Illinois; B.A. University of Notre Dame*

*David Klein, MD, FACS Medical Director, Associate Professor-M.D. Harvard Medical School; B.A. Dartmouth College*

*Heather Heggem, PA-C, MPAS Associate Director-Curriculum Coordinator/Assistant Professor; B.S., MPAS Rocky Mountain College*

*Ari Greenberg, PA-C Assistant Professor-PA University of Utah, B.A. California State University, Chico*

*Tanja Sloan, PA-C Director of Clinical Education/Assistant Professor-B.S. University of North Dakota PA-C; A.S. Northwest College, RN*

*Patti States, MD Assistant Professor-M.D. University of Washington; B.A. Carroll College*

*Jeffrey Lakier, MD, FACP, FACC Associate Professor-M.B.Ch, M.D., Witwaterand University, F.C.P. (South Africa).*

*Mark Osterlund, PhD Assistant Professor, Genetics & Molecular Biology-Ph.D. Yale University, B.S. Clemson University*

*Ulrich Hoensch, PhD Assistant Professor, Mathematics - Ph.D., Mathematics, Michigan State University, M.S. Technical University Darmstadt*

## National PA Certification (PANCE) Results

Only graduates from ARC-PA accredited PA programs are eligible to sit for the PANCE (Physician Assistant National Certifying Examination) and become licensed to practice. The PANCE is the entry-level exam that PA's must pass to become nationally certified. Over the past five years, the program's average pass rate for first-time PANCE testing is over 98%. Pass rates for Program graduates (by year) are as follows:

Graduating Class	RMC first-testing passing rates	National first-testing pass rates
2010	100%	94%

Graduating Class	RMC first-testing passing rates	National first-testing pass rates
2009	91%	92%
2008	100%	94%
2007	100%	93%
2006	86%	92%
2005	94%	91%
2004	100%	90%
2003	90%	89%
2002	83%	90%
2001	95%	92%
2000	86%	92%
1999	100%	91%
1998	100%	95%

The physician assistant (PA) is a licensed primary healthcare provider who practices medicine under the supervision of a physician. The concept of the physician assistant was developed from the basic premise that many tasks performed by physicians can be carried out with equal competence by other specially trained health professionals.

The Rocky Mountain College Master of Physician Assistant Studies program is an ARC-PA (Accreditation Review Commission on Education for the Physician Assistant) accredited program. The program is an integrated, full-time, 26-month program consisting of both campus-based didactic instruction and clinical experiential learning. It is an intensely challenging curriculum, both intellectually and physically; thus, it requires stamina as well as personal and financial sacrifice.

The program matriculates one class per year and the coursework begins in early July. The first 14 months of the program include the fundamental behavioral, basic biomedical, and clinical sciences required for the professional course of study, as well as courses designed to better prepare the students for expanded health care roles that meet the developing needs of today's society. A total of 61 semester hours of credit are presented using a combination of lecture, demonstration, discussion, and laboratory formats requiring a significant time commitment. Students must successfully complete all components of the didactic phase prior to advancing to the clinical instruction phase.

The final 12 months of the program constitute the major period of clinical education, with an emphasis on primary care. The clinical instruction includes 8 6-week practice rotations in various specialties. Students must be willing and able to relocate at their own expense to places distant from Billings, Montana during the clinical phase of their education.

Employment while enrolled is strongly discouraged.

The mission of the Rocky Mountain College Master of Physician Assistant Studies program is to educate primary care providers who embody a combination of academic talents of evidence-

# Academic Programs

based medicine, clinical skills, and professionalism while providing compassionate health care services particularly to those in rural and underserved areas of this region. Our graduates distinguish themselves through an emphasis on patient safety and quality improvement.

The liberal arts tradition and objectives of lifelong learning, critical thinking, communication skills, recognition of other cultures, and exploration of ethical issues are valuable and necessary parts of the physician assistant academic process and profession.

## Graduation Requirements

Students enrolled in the professional phase of the physician assistant program must satisfactorily complete all of the following requirements in order to successfully graduate and be awarded the Master of Physician Assistant Studies (MPAS) degree:

- All didactic phase coursework specified in the program of study (outlined below) with a minimum grade of C in each course;
- A minimum cumulative program GPA of 3.00 for the entire didactic phase of the program of study;
- An overall professional behavior evaluation rating of acceptable/satisfactory (or better) on each of the faculty evaluations of student professionalism, prepared at the end of each semester of the didactic phase of the program of study;
- The minimum passing grade on all three components (knowledge, patient assessment, and clinical skills) of the first year comprehensive student evaluation performed at the end of the didactic phase of the professional program of study;
- The minimum passing grade (B) in each of the individual clinical rotations specified in the program of study;
- The minimum passing grade on each preceptor evaluation of student performance prepared near the conclusion of each clinical rotation;
- The minimum passing grade on each end-of-rotation written examination;
- The minimum passing grade on each of the three components (knowledge, patient assessment, and clinical skills) of the final summative student evaluation performed near the end of the program;
- A cumulative program GPA of 3.00 or higher;
- Satisfactory completion of PHA 636 (Patient Safety Unifying Themes) and PHA 638 (Case Study and Community Education Project).

## Program of Study

Master of Physician Assistant Studies A minimum of 61 sequential semester hours is required in the didactic phase, to include the following:

First summer term (7 semester hours)

Course #	Title	Credits
PHA508	Biostatistics	1
PHA538	Clinical Human Anatomy and Physiology	4
PHA575	Genetics & Molecular Basis of Health & Disease	2

Fall semester (18 semester hours)

Course #	Title	Credits
PHA501	Introduction to Clinical Medicine	1
PHA505	Evidence-Based Medicine: Research, Communications and Applications	3

PHA509	Professional and Medical Practice Issues	1
PHA518	Allergy and Immunology	2
PHA520	Physical Assessment	3
PHA522	Hematology	2
PHA533	Infectious Disease	2
PHA543	Endocrinology	2
PHA547	Ophthalmology	2

Spring semester (18 semester hours)

Course #	Title	Credits
PHA509	Professional and Medical Practice Issues	1
PHA523	Pulmonology	2
PHA524	Cardiology	2
PHA527	Nephrology	2
PHA531	Behavioral Dynamics	2
PHA535	Gastroenterology	1
PHA539	Neurology	2
PHA546	Pediatrics	2
PHA549	Oncology	1
PHA550	Introduction to Clinical Practice	2
PHA557	Otorhinolaryngology	1

Summer semester (18 semester hours)

Course #	Title	Credits
PHA509	Professional and Medical Practice Issues	1
PHA551	Urology	2
PHA556	Surgery	2
PHA561	Obstetrics and Gynecology	2
PHA562	Orthopedics	2
PHA572	Dermatology	1
PHA574	Rheumatology	1
PHA610	Emergency Medicine	3
PHA621	Problem Based Clinical Correlation	2
PHA641	Geriatrics	2

Note: All courses listed for the master of physician assistant studies degree are restricted to those students admitted to the professional phase of the physician assistant program only.

## Physician Assistant Studies courses

### PHA247

#### Medical Terminology

Semester: On Demand. Semester Hours: 2.

Open to any student. This course assists those studying in the fields of medicine and health care. Through textbook readings and the use of Web-related tools, the principles of medical terminology will be described and applied. The course offers a broad introduction to concepts underlying medical terminology. Medical examples will illustrate concepts and methods. This course does not meet general education requirements.

### PHA501

#### Introduction to Clinical Medicine

Semester: Fall. Semester Hours: 1.

This course will introduce the PA student to general concepts of the study of clinical medicine. Terminology and evidence-based medicine will be reviewed.

# Academic Programs

## **PHA505**

### **Evidence-Based Medicine: Research, Communications and Applications**

Semester: Fall. Semester Hours: 3.

A critical component of health care practice is the ability to recognize needs for information and possessing the skills/ability to locate, evaluate and use the needed information effectively. This course is designed to enable students with the competencies needed to become independent lifelong learners able to make informed decision based on critical reasoning and evaluation of medical and scientific literature and to communicate their knowledge in written and verbal forms. The effects of public health information literacy on health care delivery and the role of primary care providers in promoting patient health information literacy are also explored. Students are introduced to the principles of clinical research design and epidemiology, including literature search, methodology, data collection, data management, and reporting of results and conclusions.

## **PHA508**

### **Biostatistics**

Semester: Summer. Semester Hours: 1.

This course is designed to acquaint the student with the basics of biostatistics and emphasizes how an understanding of these areas is important in clinical medicine. An understanding of biostatistics is important not only for analyzing the results of research but also for understanding and reducing errors. This course centers on cases to illustrate pertinent concepts and prepares the student to be a responsible dispenser of medical resources and a knowledgeable consumer of the medical literature. Pitfalls and biases of both medical practice and publications as they relate to statistics are a major focus.

## **PHA509**

### **Professional and Medical Practice Issues**

Semester: Fall, Spring, and Summer, Summer. Semester Hours: 1.

This course, which is taken in each of the three full didactic semesters, examines a professional's obligations and a patient's rights in regard to ethical and social issues in medicine. Thorny dilemmas, such as the role of using humans in research studies, decisions not to treat or to resuscitate, inherent conflicts in genetics and reproductive technologies, as well as professional concerns about paternalism, patient rights, and confidentiality are examined. Students learn to think critically, drawing upon their own experience, to develop an understanding of how to handle ethical dilemmas while practicing primary care medicine. Preparation includes understanding how to interpret medical literature and how to ethically apply research. Additionally, students learn the history of the PA profession and become culturally and socially aware of how professional credentialing, the regulation of caregiver's clinical responsibilities, and ethical/legal considerations influence their interaction with patients, as well as their place in the profession.

## **PHA518**

### **Allergy/Immunology**

Semester: Fall. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Allergy and Immunology.

## **PHA520**

### **Physical Assessment**

Semester: Fall. Semester Hours: 3.

This course prepares students to master the art of taking medical histories and performing physical examinations. The focus is on recognition of "normal" and the significance of "abnormal" findings. A systems approach is used and the material is taught using a lecture, demonstration, and lab practicum format. A laboratory session is scheduled weekly to incorporate/practice skills presented in the lectures.

## **PHA522**

### **Hematology**

Semester: Fall. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Hematology.

## **PHA523**

### **Pulmonology**

Semester: Spring. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Pulmonology.

## **PHA524**

### **Cardiology**

Semester: Spring. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Cardiology.

## **PHA527**

### **Nephrology**

Semester: Spring. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Nephrology.

## **PHA531**

### **Behavioral Dynamics**

Semester: Spring. Semester Hours: 2.

The recognition and management of common psychosocial problems is a critical skill to develop as a primary care provider. The fundamental role of interviewing and history taking will be emphasized as students are introduced to several techniques that will facilitate communicating and developing rapport with the patient. Treatment will be discussed from a bio-psychosocial perspective with reference to psychotherapies, psychopharmacology, and environmental intervention. The role that psychosocial dynamics play in all areas of medicine will be of major focus and case studies are used to emphasize the delicate interplay. Psychiatric topics covered will include anxiety disorders, mood disorders, psychoses, organic conditions, substance use disorders, personality disorders, eating disorders, and psychiatric emergencies and crises. Additionally, there is an introduction to the concepts of death, dying, and bereavement.

# Academic Programs

## **PHA533**

### **Infectious Disease**

Semester: Fall. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Infectious Disease.

## **PHA535**

### **Gastroenterology**

Semester: Spring. Semester Hours: 1.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Gastroenterology.

## **PHA538**

### **Clinical Human Anatomy and Physiology**

Semester: Summer. Semester Hours: 4.

This course is designed to teach students the essentials of gross anatomy and physiology pertaining to clinical practice. Cadavers and cadaveric specimens will play a fundamental role as we relate lecture/discussions to laboratory study. Students will learn to relate anatomical structures in the human body, skeletons, and models to imaging studies. The surface anatomy component introduces the student to the clinical setting and describes the visible and palpable anatomy that forms the basis of physical examination. Through laboratory workshops, students will learn to visualize how their interaction with the body's surface interplays with internal anatomy. Additionally, a thorough review of concepts of physiology as they pertain to health and disease will be provided with a focus placed on each major organ system. Both portions of this course are designed as a focused review and an approach to ensure physician assistant students entering the clinical medicine courses have a firm grasp of anatomical and physiological concepts and begin to apply physiological reasoning to clinical situations.

## **PHA539**

### **Neurology**

Semester: Spring. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Neurology.

## **PHA543**

### **Endocrinology**

Semester: Fall. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Endocrinology.

## **PHA546**

### **Pediatrics**

Semester: Spring. Semester Hours: 2.

The course will examine infant and child health and development, focusing on major common pediatric illnesses and their signs, symptoms, and management relative to the primary health care provider. The problem-oriented medical record is presented, i.e., the pediatric history and physical examination. Specific

problems of the newborn and older child will be presented for discussion in such areas as immunity and allergy, pharmacotherapy, medical emergencies, preventive health care, and the psychosocial and developmental disabilities specific to pediatrics. Students will learn to perform and demonstrate an infant exam. Specific strategies for physical examination of the pediatric patient will be learned and practiced on live patients in a skills lab.

## **PHA547**

### **Ophthalmology**

Semester: Fall. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Ophthalmology.

## **PHA549**

### **Oncology**

Semester: Spring. Semester Hours: 1.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Oncology.

## **PHA550**

### **Introduction to Clinical Practice**

Semester: Spring. Semester Hours: 2.

This course introduces the student to the diverse practices of medicine including: Rehabilitative medicine, occupational medicine, and environmental medicine. It also introduces the student to the administrative functions associated with medical practice, such as various forms of medical documentation, patient charts, CPT/ICD-9 coding and third-party billing. Students will use their examination and history taking skills on standardized patient models in the campus physical assessment labs and then apply the administrative functions to the patient model scenarios. In addition, they will shadow volunteer medical providers or allied health professionals in the medical community throughout the semester.

## **PHA551**

### **Urology**

Semester: Summer. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Urology.

## **PHA556**

### **Surgery**

Semester: Summer. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Surgery.

## **PHA557**

### **Otorhinolaryngology**

Semester: Spring. Semester Hours: 1.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Otorhinolaryngology.

# Academic Programs

## **PHA561**

### **Obstetrics/Gynecology**

Semester: Summer. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Obstetrics/Gynecology.

## **PHA562**

### **Orthopedics**

Semester: Summer. Semester Hours: 2.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Orthopedics.

## **PHA572**

### **Dermatology**

Semester: Summer. Semester Hours: 1.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Dermatology.

## **PHA574**

### **Rheumatology**

Semester: Summer. Semester Hours: 1.

This course introduces the student to the pathophysiology, pathology, clinical medicine, diagnostic and therapeutic modalities, and preventive medicine aspects in the practice of Rheumatology.

## **PHA575**

### **Genetic & Molecular Basis of Health & Disease**

Semester: Summer. Semester Hours: 2.

The focus of this course is to gain an understanding of the biochemical, molecular, and genetic basis for health and disease with an emphasis on clinical applications. The purpose of this course is to provide students with a knowledge base that can be applied throughout their study of medicine.

## **PHA610**

### **Emergency Medicine**

Semester: Summer. Semester Hours: 3.

The course will present a systematic approach to the evaluation, recognition and management of medical and surgical emergencies which might be frequently encountered by the primary care physician assistant. Using a formal lecture/discussion format, the course will focus on etiology, evaluation, emergency treatment and stabilization of more common emergency injuries and disease presentations. The focus of the course is in providing students the necessary skill set to function in rural, underserved areas where the physician assistant might be responsible for identification of significant life threats, emergency treatment, and stabilization for evacuation to a higher level of care. Curriculum includes instruction and certification in the American Heart Association's Basic Cardiac Life Support (BCLS), Advanced Cardiac Life Support (ACLS), and Pediatric Advanced Life Support (PALS) courses. Advanced training is provided in trauma assessment and stabilization which includes instruction and practical performance laboratory for all critical skills identi-

fied in the American College of Surgeon's Advanced Trauma Life Support (ATLS) course.

## **PHA621**

### **Problem-Based Clinical Correlation**

Semester: Summer. Semester Hours: 2.

This course is designed to assist students in becoming critical thinkers who can apply the concepts of medical decision-making and problem solving. The course utilizes a Problem-Based Learning (PBL) approach to teach students to critically evaluate and apply the clinical information they derive through medical history, physical examination, diagnostic testing, and pertinent medical literature to the real-life resolution and management of health care problems.

## **PHA636**

### **Patient Safety - Unifying Themes**

Semester: Summer. Semester Hours: 3.

Students will employ the Institute of Healthcare Improvement Open School modules on leadership, patient safety, and quality improvement. Building upon concepts and discussions begun during the didactic year regarding evidence-based medicine, ethics, and professionalism the student will leave the program with a focus on enhancing patient safety through communication, data gathering, and quality improvement techniques.

## **PHA638**

### **Case Study and Community Education Project**

Semester: Summer. Semester Hours: 3.

Students will apply skills learned from Evidence-Based Medicine: Research, Communications and Applications and Professional and Medical practice Issues to choose a case study developed and researched during the clinical rotations. The course will conclude with an oral presentation to second year peers and the faculty of a literature supported case study and a written 3-5 page paper. Case study development will be mentored by the Director of Clinical Education and supported by the core faculty. Presentations will be delivered the week of graduation.

## **PHA641**

### **Geriatrics**

Semester: Summer. Semester Hours: 2.

This course provides an introduction to gerontology with an emphasis on the normal biological, sociological, behavioral and environmental changes that occur with age. Consequences of aging from the perspective of primary health care providers will be presented. Principles and methods of multidimensional assessment relative to the recognition and management of medical disease and mental illness with an emphasis on maximizing functional independence is discussed. The skills of history taking and physical assessment in the geriatric population with hands on experience in nursing homes will be taught. Students will understand the End of Life Issues and ethics in palliative care with review of the model of Advanced Care planning. Hospice care and advanced directives will be presented.

## **PHA651**

### **Clinical Rotations I\***

Semester: Fall. Semester Hours: 12.

Students complete clinical rotations as assigned by the physician assistant program.

# Academic Programs

## **PHA652**

### **Clinical Rotations II\***

Semester: Spring. Semester Hours: 12.

Students complete clinical rotations as assigned by the physician assistant program.

## **PHA653**

### **Clinical Rotations III\***

Semester: Summer. Semester Hours: 14.

Students complete clinical rotations as assigned by the physician assistant program.

### **Clinical Rotations**

\*These rotations will include the following:

#### **Family Practice Rotation**

This core rotation of 6 weeks is structured to provide an understanding of various medical disorders and their complications experienced by patients of all age groups. Within this setting, the emphasis is on the accurate collection, assessment, and presentation of patient data for physician review, indications for laboratory and imaging diagnostics, and the education of patients regarding health risk behaviors and therapeutic regimens.

#### **Emergency Medicine Rotation**

This core rotation of 6 weeks is designed to provide an in-depth exposure to the illnesses and injuries sustained by children and adults that necessitate emergency care. The educational experiences emphasize the focusing of interview and examination skills and the performance of techniques and procedures essential to the proper management of life-threatening illnesses and injury. Ventilatory assistance, cardiopulmonary resuscitation, fluid and electrolyte replacement, and acid-base balance are stressed.

#### **General Internal Medicine Rotation**

This core rotation of 6 weeks is designed to provide clinical practice experience with the various acute and chronic medical disorders/complications that necessitate hospitalization and further evaluation for patients of adult patients, with special emphasis on geriatric patients and the care provided in both acute and long-term care facilities.

#### **General Pediatrics Rotation**

This required core rotation of 6 weeks is structured to provide the student with an in-depth exposure to the assessment and management of children and adolescents. Included will be a focus on the newborn physical, well-child care, and those acute processes unique to the pediatric patient.

#### **Obstetrics/Gynecology (Women's Health) Rotation**

This core rotation of 6 weeks provides exposure to the spectrum of problems and issues associated with women's health care as well as routine prenatal, intrapartum, and postpartum obstetrical care. Learning experiences will also include family planning and birth control, recognition and treatment of sexually transmitted infections, cancer detection, and evaluation of common gynecological problems.

#### **General Surgery Rotation**

This core rotation of 6 weeks provides an orientation to patients of various ages with surgically manageable diseases. The em-

phasis of the learning experiences are on the preoperative evaluation and preparation of patients for surgery, assistance during the intraoperative period to develop an understanding of team member roles and operative procedures, and post-operative patient management and care of surgical wounds and complications.

#### **Psychiatry Rotation**

This core rotation of 6 weeks is designed to provide an understanding of the behavioral components of health, disease, and disability. Exposure to patients with a variety of emotional illnesses and disabilities are used to develop informed history taking and mental status examination skills, the ability to recognize and categorize psychiatric disturbances, and techniques for early intervention and psychiatric referral.

#### **Elective Rotation**

This rotation of 6 weeks is designed to give students an opportunity to explore professional options as Physician Assistants and may include additional clinical practice in any of the core rotations, any medical or surgical subspecialty, or experiential learning in academic medicine.

Syllabi have been developed for common elective rotations. A student who desires to complete an elective rotation that is not included among those previously developed needs to have prior approval by the program director. An appropriate syllabus will be developed and must be approved by the Program Curriculum Committee before the rotation begins.

## **Physics**

*Toby Anderson, Associate Professor*

*Jason Stoke, Assistant Professor*

The concepts and principles of physics form the foundation on which all other sciences are built. Developments in the field of physics have also influenced thinking in philosophy, politics, and art, among other areas.

Physics courses at Rocky Mountain College cover the major ideas of both classical and modern physics. Students can gain the understanding required for majors in other sciences, including biology, chemistry, environmental science, and geology. Physics courses are also necessary for students planning careers ranging from aviation and engineering to the health sciences. Other physics courses provide an option for non-science majors to satisfy general education requirements while learning to better appreciate the physical universe around them and also to be better-informed members of a technologically complex society living on an environmentally challenged planet.

Physics courses provide students the opportunity to learn and practice rigorous, quantitative, and mathematical analyses as well as careful and precise verbal discussions. Courses are offered on a wide range of mathematical levels. Some levels require a proficiency in calculus; other levels require little mathematics, but all levels expect students to have, or develop, some ability at quantitative thinking.

#### **Minor in Physics**

A minimum of 18 semester hours is required, including:

PHS201 General Physics I

PHS202 General Physics III

# Academic Programs

## PHS300 Physics Lab Projects

Of these 18 semester hours at least six must be upper division.

## Physics courses

### PHS100

#### Atoms to Stars

Semester: On Demand. Semester Hours: 3 .

A course designed for non-science majors. A selection of topics in physics will be discussed to give the student a greater understanding of the physical universe. This course provides the background for an appreciation of the laws and phenomena of physics, which control the universe, from the sub-atomic to the cosmological scale, including the scale of human existence. Topics discussed may include force and motion, energy, the nature of light, the structure of matter, and ideas of modern physics. Only minimal mathematics will be used.

### PHS101

#### Fundamental Physics I

Semester: Fall, Alternate Years. Semester Hours: 4.

Students examine a survey of the laws and phenomena of classical physics, including motion, force, energy, momentum, waves, and thermodynamics. This course is suitable for non-science majors who have a strong background in high school algebra and who wish to have a more rigorous understanding of physics than provided in most courses for non science majors. The course will satisfy the requirements of geology and biology majors. Students considering graduate work in these areas should take PHS201 and PHS202 instead. Three lecture periods and one two-hour laboratory per week.

### PHS102

#### Fundamental Physics II

Semester: Spring, Alternate Years. Semester Hours: 4 .

Students examine a survey of the laws and phenomena of classical and modern physics, including light, electricity, magnetism, and atomic and nuclear physics. This course is suitable for non-science majors who have a strong background in high school algebra and who wish to have a more rigorous understanding of physics than provided in most courses for non-science majors. This course will satisfy the requirements of geology and biology majors. Students considering graduate work in these areas should take PHS201 and PHS202 instead. Three lecture periods and one two- hour laboratory per week.

Prerequisite: PHS101

### PHS105

#### Principles of Physics

Semester: On Demand. Semester Hours: 4 .

A survey of the laws and phenomena of classical physics, including motion, force, energy, momentum, waves, and thermodynamics. This course is algebra-based, and is intended for aviation majors. Others admitted with permission of instructor when space allows. Three lecture periods and one two-hour laboratory period per week.

Prerequisite: proficiency in high school algebra and trigonometry or MAT110 or MAT131

### PHS201

#### General Physics I

Semester: Fall. Semester Hours: 4 .

This course is a calculus-based introduction to the laws and phenomena of classical physics, including force and motion, energy and momentum, their conservation laws, and their oscillations. This sequence is required for chemistry majors and engineering students and is recommended for mathematics, biology, and geology students. Three lecture periods and one two-hour laboratory per week.

Corequisite: MAT175

### PHS202

#### General Physics II

Semester: Spring. Semester Hours: 4 .

This course is a calculus-based introduction to the laws and phenomena of classical physics, including mechanics, waves, light, electricity, and magnetism. This sequence is required for chemistry majors and engineering students and is recommended for mathematics, biology, and geology students. Three lecture periods and one two-hour laboratory per week.

Prerequisite: PHS201

Corequisite: MAT176

### PHS225

#### Modern Physics

Semester: Fall, Odd Years. Semester Hours: 3 .

This course covers selected concepts from early twentieth century physics. Topics covered include special relativity, photoelectric effect, Compton scattering, and the wave nature of particles.

Prerequisite: PHS 202 or permission from the instructor

### PHS300

#### Physics Lab Projects

Semester: On Demand. Semester Hours: 1-2 .

Builds on students' experience in introductory labs with more complex and sophisticated experiments selected by students in consultation with the instructor. Emphasis will be on experimental design, analysis, and presentation of results. The course will be available every semester on a directed independent study basis. Students may work alone or in teams of two or three students.

Prerequisite: permission of professor

### PHS310

#### Statics

Semester: On Demand. Semester Hours: 3 .

Required for engineering students; involves a thorough analysis of forces and stresses on particles, rigid bodies, structures, and fluids in static equilibrium. Three lecture periods per week.

Prerequisite: PHS201

### PHS311

#### Dynamics

Semester: On Demand. Semester Hours: 3 .

Required for engineering students; involves a thorough analysis of the kinematics and kinetics of particles, systems of particles, and rigid bodies. Three lecture periods per week.

Prerequisite: PHS310

# Academic Programs

## **PHS320**

### **Relativity Theory**

Semester: Fall, Alternate Years. Semester Hours: 2 .

Students are introduced to Einstein's theory of relativity with emphasis on the special theory.

Prerequisite: PHS201

## **PHS321**

### **Quantum Theory**

Semester: Spring, Alternate Years. Semester Hours: 2 .

Students are introduced to quantum mechanics, including the historical evolution of the theory. Emphasis will be on the wave mechanical formulation of the theory and Schrödinger's equation. Topics such as quantum tunneling and atoms will be analyzed. The impact of quantum theory on the scientific worldview will be considered.

Prerequisite: PHS202

## **PHS325**

### **Nuclear and Particle Physics**

Semester: Fall, Alternate Years. Semester Hours: 2 .

Introduction to nuclear physics, including theory, experiments, and nuclear processes, as well as a survey of modern particle physics, including quantum chromodynamics.

Prerequisite: PHS202

## **PHS343**

### **Classical and Modern Optics**

Semester: Spring, Odd Years. Semester Hours: 3 .

This course covers concepts in geometrical and modern optics. Topics covered include reflection, refraction, dispersion, image formation, diffraction, superposition, interference, and polarization.

Prerequisite: PHS 202 or permission from the instructor

## **PHS347**

### **Introduction to Health Physics**

Semester: Fall, Even Years. Semester Hours: 3 .

This course is an introduction to radiation physics and the biological effects of radiation exposure. Topics covered include atomic and nuclear structure, radioactivity, interaction of radiation with matter, radiation dosimetry, and the biological effects of radiation.

Prerequisite: PHS 202 or permission from the instructor

## **PHS380**

### **Human Biophysics II**

Semester: Spring. Semester Hours: 3.

This 2 semester course applies the basic principles of physics in order to improve the understanding of human anatomy and physiology. In addition, the effects of forces and energies on the human body will be studied. Biophysical principles will be illustrated when possible by discussion of human disease as well as by normal medical practices and procedures.

The first semester considers biophysical principles based on the broad physical topics of mechanics, acoustics, and heat. The second semester considers biophysics based on electromagnetism and radiation, and then considers the biophysics of cancer and other human diseases.

Prerequisite: PHS380

## **PHS380**

### **Human Biophysics I**

Semester: Fall. Semester Hours: 3.

This 2 semester course applies the basic principles of physics in order to improve the understanding of human anatomy and physiology. In addition, the effects of forces and energies on the human body will be studied. Biophysical principles will be illustrated when possible by discussion of human disease as well as by normal medical practices and procedures.

The first semester considers biophysical principles based on the broad physical topics of mechanics, acoustics, and heat. The second semester considers biophysics based on electromagnetism and radiation, and then considers the biophysics of cancer and other human diseases.

## **Political Science**

For course listings, see "History and Political Science."

## **Pre-Law Minor**

*Matthew O'Gara, Assistant Professor and Pre-Law advisor*

Students planning to attend law school after completing a degree at Rocky Mountain College are encouraged to supplement their major by taking on a secondary Pre-Law minor. Along with the completion of all requirements for their major, Pre-Law students take core courses in government, law, and logic, and choose among electives in the four categories listed below.

Required courses are intended to foster critical thinking skills, develop advanced writing abilities, and acquire an understanding of the human condition as it relates to the issues of legal and social justice. Students in the program will also receive assistance with LSAT test preparation and the law school application process.

### **Minor in Pre-Law**

Required courses:

POL203, American Government

POL412, Constitutional Law

PHR205, Logic

Select one of the following:

ENG319, Creative Non-Fiction Writing

ENG325, Professional Writing

ENG359, History and Grammar of English

Select one of the following:

COM240, Rhetoric of Western Thought

COM260, Debating Contemporary Issues

COM404, Rhetoric of Protest and Dissent

Select one of the following:

PHR303, Ethics

PHR340, Christian Ethics

Select one of the following:

AVS312, Aviation Law

BSA331, Business Law

IDS205, Negotiations

IDS305, Mediation



# Academic Programs

POL321 History of Political and Social Thought  
PSY/SOC201 Social Psychology  
SOC242, Cultural Anthropology  
SOC321, Criminology

or other relevant Special Topics course with permission of faculty

All courses for this program fall under other programs.

## Pre-Law Minor courses

### AVS312

#### Aviation Law

Semester: Fall. Semester Hours: 3.

This course provides a forum for understanding the statutes, regulations, and case law governing aviation. Topics of study include administrative law, FAA enforcement, aviation medical issues, business organizations, airline liability, aircraft accidents, aircraft transactions, and airline labor law.

Prerequisite: Sophomore standing

### BSA331

#### Business Law

Semester: Fall. Semester Hours: 3.

A course that explores the legal principles relating to business transactions: contracts, sales, commercial paper, intellectual property, and e-commerce. A study of the legal environment of business is emphasized. This course is often required as a prerequisite for master's level business programs.

### COM240

#### Rhetoric of Western Thought

Semester: Spring. Semester Hours: 3.

This course investigates the evolution of rhetorical theories from ancient Greece to contemporary models of communication. It focuses on the application of theories to communication events in order to explicate how communication shapes culture.

Corequisite: COM102

### COM260

#### Debating Contemporary Issues

Semester: Fall. Semester Hours: 3.

This course explores persuasion, reasoning and argumentation by analyzing current controversies in local, national and international politics. Students prepare their own arguments and analyze arguments in media. Students develop effective persuasive speaking and refutation skills by debating one another in class.

Prerequisite: COM102

### COM404

#### Rhetoric of Protest and Dissent

Semester: Spring. Alternate years. Semester Hours: 3.

This course examines why and how protest occurs, the challenges protesters face rhetorically, and the available options from which protesters can choose. Students will emerge with an appreciation of how difficult protest is and how important it is for a vital society.

Prerequisite: COM240; junior or senior standing

### ENG319

#### Creative Non-Fiction Writing

Semester: Fall. Semester Hours: 3.

Students study examples of creative nonfiction and practice writing their own. They also gain experience-incorporating research into their prose.

Prerequisite: ENG119

### ENG325

#### Professional Writing

Semester: Fall. Semester Hours: 3.

This course teaches concepts, practices, and skills for communicating technical, scientific, or business-related information. Topics include understanding how people read, designing documents, incorporating graphics, writing about statistical results, rewriting, editing, and using the Internet. This course may be especially useful for non-English majors, providing them with the tools and techniques to communicate their messages effectively.

Prerequisite: ENG119

### ENG359

#### History and Grammar of English

Semester: Fall, Alternate years. Semester Hours: 3.

Students are introduced to the linguistic and theoretic approaches to the study of English, including phonology and morphology. Students pursue an in-depth study of syntax, focusing on the grammar of words, phrases, clauses, and sentences. Students also review the history of English from proto-Germanic to the development of regional dialects, cultural variations, and "global" English.

### IDS205

#### Negotiations

Semester: Fall. Semester Hours: 2.

Negotiation constitutes the primary form of dispute resolution. Negotiation is a comprehensible social process, not a mystical process in a black box; it can be analyzed, understood, and modeled. Negotiation is a learnable and teachable skill. Negotiator's are made not born, and skills can be improved and relearned throughout life. The goal of this course is to empower the student, to become a comfortable negotiator - to appreciate the professional and personal enjoyment to be derived from negotiating.

### IDS305

#### Mediation

Semester: Spring. Semester Hours: 3.

Mediation is an interdisciplinary field. Mediators come from all disciplines and walks of life. A potential mediator ought to possess including: the patience of Job, the hide of a rhinoceros, and the wisdom of Solomon. Mediation is an alternative to a decision rendered by a judge, arbitrator, or other decision maker. Mediators help the parties in a dispute to engage in constructive and creative communication, which will allow them to explore the issues and reach a mutually acceptable resolution of their dispute. The goal of the course is to provide those basic skills necessary to further pursue mediation, either as a profession or as another arrow in the student's quiver of practical and life skills.

# Academic Programs

## **PHR205**

### **Logic**

Semester: On Demand. Semester Hours: 3.

An introductory course in the principles and methods used to distinguish correct from incorrect reasoning. This course aims to help students think and read critically and to write argumentative papers. Both inductive and deductive logic will be studied.

## **PHR303**

### **Ethics**

Semester: Spring, Alternate years.. Semester Hours: 3.

This course examines why and how protest occurs, the challenges protesters face rhetorically, and the available options from which protesters can choose. Students will emerge with an appreciation of how difficult protest is and how important it is for a vital society.

## **PHR340**

### **Christian Ethics**

Semester: Spring, Alternate years.. Semester Hours: 3.

How can a Christian make moral decisions? We will study the biblical basis for ethics, and several modern Christian ethicists to understand how they move from the beliefs of Christianity to recommendations for specific ethical action.

## **POL203**

### **American Government**

Semester: Fall, Spring semester. Semester Hours: 3.

This course provides an analysis of the American system of government on three levels. Students will examine the origins of our system of government, the nature and role of our Constitution with its functional and territorial distribution of powers, and the importance of government at the three levels.

## **POL321**

### **History of Political and Social Thought**

Semester: On Demand. Semester Hours: 3.

The development of political and social ideas from ancient Greece to the present is examined.

Prerequisite: POL101

## **POL412**

### **Constitutional Law**

Semester: Fall, Alternate years.. Semester Hours: 3.

A case-method approach to the landmark decisions of the Supreme Court, with an emphasis on the doctrine of judicial review and the role of the Court in interpreting the Constitution and shaping American legal culture. The course will focus on the exercise and limitations of federal power in the areas of the economy, civil rights, and individual liberties, as well as the Constitutional basis on which statutes and other regulatory provisions are adjudicated. Special attention will be given to Constitutional clauses related to free speech, due process, and equal protection under the law.

## **PSY201**

### **Social Psychology**

Semester: Spring. Semester Hours: 3.

Students study the behavior of individuals as it is controlled, influenced, or limited by the sociocultural environment, social interaction, and basic interrelations of the individual, society, and culture. This course is designed to enable students to see

themselves as both shaping and being shaped by their culture. Attention is also focused on inclusion and diversity. This course is cross listed with SOC 201.

Prerequisite: PSY101

## **SOC201**

### **Social Psychology**

Semester: Spring. Semester Hours: 3.

Students study the behavior of individuals as it is controlled, influenced, or limited by the sociocultural environment, social interaction, and basic interrelations of the individual, society, and culture. This course is designed to enable students to see themselves as both shaping and being shaped by their culture. Attention is also focused on inclusion and diversity. This course is cross listed with PSY 201.

Prerequisite: PSY101

## **SOC242**

### **Cultural Anthropology**

Semester: Spring. Semester Hours: 3.

Students are introduced to anthropological analysis of human behavior. Topics will include a cross-cultural examination of the systemic relations among economic, social, political, and religious behaviors in various cultures.

## **SOC321**

### **Criminology**

Semester: Spring, Alternate years.. Semester Hours: 3.

This course focuses on the nature and extent of crime and delinquency: an historical survey of explanatory theories focusing on the economic, social, and psychological causes of criminal behavior; and current methods of treatment, policy, and prevention.

Prerequisite: SOC101

## **Psychology**

*Linda Scott DeRosier, Professor*

*Barbara Vail, Professor*

*Ambrin Masood, Assistant Professor*

Psychology reflects the study of human behavior. Whether describing, explaining or predicting this behavior, students come to see that people are the focus of the field. They struggle to comprehend what it means to be caught in the human condition and discover that they can make choices and take responsibility for those choices. They develop empathy with themselves, each other, and the diverse populations who live on this planet.

The program in psychology at Rocky Mountain College educates students in the basic principles, language, and theories of the science of psychology. Students learn to think critically, evaluating the evidence and reasoning upon which explanations of human behavior are based. They collect data, design and conduct studies, interpret and apply research, and discover what that research means in the real world of people. When analysis is completed, they learn to communicate their findings both orally and in writing. Such work prepares them for graduate work in psychology.

Whether using statistics to support experimental research, literary analysis to help explicate a psychological passage in a novel, or cultural history to broaden awareness of their field, students use the liberal arts as grounding for disciplinary knowledge.

# Academic Programs

## Major in Psychology

A minimum of 30 semester hours in psychology courses is required, including

PSY101 General Psychology  
PSY305 Abnormal Psychology  
PSY312 Behavior Management  
PSY410 Experimental Psychology  
PSY431 Psychological Testing and Assessment  
PSY450 Internship  
PSY483 Psychological Counseling  
MAT210 Probability and Statistics

Choose one of the following:

PSY205 Human Development I  
PSY206 Human Development II

A course in biology and a course in chemistry are recommended.

## Major in Psychology Education

A minimum of 30 semester hours is required, including:

PSY101 General Psychology  
PSY205 Human Development I  
PSY206 Human Development II  
PSY302 Educational Psychology  
PSY305 Abnormal Psychology  
PSY312 Behavior Management  
PSY410 Experimental Psychology  
PSY420 Methods and Materials Teaching Psychology in the Secondary School  
PSY431 Psychological Testing and Assessment  
PSY450 Internship  
PSY483 Psychological Counseling

In addition, students must complete all of the requirements of the professional education program for secondary teaching (grades 5-12) as described in the "education" section of the catalog.

## Minor in Psychology

A minimum of 21 semester hours is required, including:

PSY101 General Psychology  
PSY410 Experimental Psychology

Choose one of the following:

PSY205 Human Development I  
PSY206 Human Development II

12 credits of psychology electives.

## Minor in Psychology Education

A minimum of 21 semester hours is required including

PSY101 General Psychology  
PSY205 Human Development I  
PSY206 Human Development II  
PSY302 Educational Psychology  
PSY410 Experimental Psychology  
PSY420 Methods and Materials Teaching Psychology in the Secondary School

PSY312, and PSY431 are recommended. In addition, students must complete all of the requirements of the professional education program for secondary teaching (grades 5-12) as described in the "Education" section of the catalog.

## Psychology courses

### PSY101

#### General Psychology

Semester: Fall and Spring. Semester Hours: 3.

A survey of the field of psychology investigating such topics as learning, motivation, human development, personality, social psychology, and physiological psychology. In order to make inquiry into any academic discipline, the student must first learn the language and methodology of that discipline; the field of psychology is no exception. Therefore, this course will include the study of major psychological theories, terminology, and investigative methods, as well as limited opportunity to apply those methods.

### PSY201

#### Social Psychology

Semester: Spring. Semester Hours: 3.

Students study the behavior of individuals as it is controlled, influenced, or limited by the sociocultural environment, social interaction, and basic interrelations of the individual, society, and culture. This course is designed to enable students to see themselves as both shaping and being shaped by their culture. Attention is also focused on inclusion and diversity. This course is cross listed with SOC 201.

Prerequisite: PSY101

### PSY205

#### Human Development I

Semester: Fall. Semester Hours: 3.

Students examine a study of human growth from conception to puberty. Physical, cognitive, personality, and social development will be investigated from theoretical and practical perspectives. The student will explore stages of human development through adolescence, be able to apply the major developmental theories, and make better choices as a parent or teacher.

### PSY206

#### Human Development II

Semester: Spring. Semester Hours: 3.

Students examine a study of human development from adolescence through the lifespan, which makes use of recent research studies in physical, cognitive, personality, and social development. The student will demonstrate a basic understanding of the physical, cognitive, and psychosocial changes that occur as people move through the stages of adulthood.

### PSY212

#### Family Dynamics

Semester: Fall. Semester Hours: 3.

This course is a study of the main theories of family systems, family patterns, and family-of-origin work. Material studied will be taken from required texts, articles obtained at the library, and class activities. The course will require some knowledge of the therapy models utilized in psychotherapy.

Prerequisite: PSY101

### PSY302

#### Educational Psychology

Semester: Fall. Semester Hours: 3.

This course is designed to aid the student in continuing to develop an understanding of human behavior, especially as that

# Academic Programs

understanding applies to elementary and secondary classrooms. Emphasis will be on why and how human learning takes place and how that learning relates to schools and teaching situations where the needs of each student must be considered. The course also includes participation in and the analysis of interpersonal relations and communication skills. This course is cross listed with EDC 302.

Prerequisite: PSY205 or PSY206

## **PSY305**

### **Abnormal Psychology**

Semester: Spring. Semester Hours: 3.

This course reviews the history of mental illness from a western perspective, and surveys the types of research used in the field. The symptoms, causes, and treatment of the major mental disorders are investigated from a variety of theoretical perspectives.

Prerequisite: PSY101

## **PSY306**

### **Personality Theories**

Semester: Fall, Alternate Years. Semester Hours: 3.

Designed to facilitate inquiry into the psychological theories of personality. Students will explore the basic concepts underlying major theories as well as apply those theories to hypothetical cases. Students will demonstrate a basic understanding of the fundamental principles underlying theories of personalities.

Prerequisite: PSY101

## **PSY312**

### **Behavior Management**

Semester: Fall. Semester Hours: 3.

Students review behavior management techniques and therapies. Principles of operant conditioning and classical conditioning are investigated in depth. The student will be able to use behavioral principles appropriately and understand the ethical issues involved.

Prerequisite: PSY101

## **PSY315**

### **Community Problems/Contemporary Issues in Psychology**

Semester: Fall, Alternate Years. Semester Hours: 3.

Provides students with the opportunity to research common issues facing mental health practitioners in today's society. Students will read conflicting arguments on each issue, write a paper from each perspective, and explore their own biases in regard to a series of issues.

Prerequisite: PSY101

## **PSY320**

### **Cognitive Psychology**

Semester: Spring. Semester Hours: 3.

This course will familiarize the student with basic issues and recent advances in the study of the cognitive bases of behavior. Students will be introduced to the scientific study of attention, knowledge representation, memory, problem solving, decision making, learning and expertise, reasoning, and language. Students will learn to understand and critically evaluate theory and research in cognitive psychology, apply recent developments in cognitive psychology to their own work and way of thinking about how the brain processes information, and understand sources of individual differences and diversity in cognitive abilities and processes.

## **PSY342**

### **Psychology and The Soul**

Semester: Spring. Semester Hours: 3.

This course, delivered online, with some face-to-face sessions, is designed as an introduction of faith and psychology concepts and theories through the development of current philosophers and psychologists. The focus is to explore concepts, theories and research that support the reunification of faith and psychological understanding of thought and behavior. Attention will be given to methods of spiritual and psychosocial review of life development and methods of interviewing. Among authors work to be explored are Frattaroli, Schumacher, Wilber, Vaughan and Kabat-Zin.

Prerequisite: PSY101 or PSY205 or PSY206

## **PSY360**

### **History of Psychology**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course provides a detailed study of the important foundation of the science and art of psychology. Students will understand the history of the major fields of clinical psychology, psychometrics, physiological psychology, sensation perception, learning, and motivation.

Prerequisite: PSY101 and junior standing

## **PSY410**

### **Experimental Psychology**

Semester: Fall. Semester Hours: 3.

Designed to acquaint the student with various methods used in psychological research. The student will learn to evaluate the quality of research, will design and execute various types of research, and will be able to document research using APA guidelines.

Prerequisite: PSY101 and MAT210

## **PSY420**

### **Methods and Materials: Teaching Psychology in the Secondary School**

Semester: On Demand. Semester Hours: 2.

This course requires focused study and consultation with a public school psychology teacher or other acceptable professional. Hours will be arranged in consultation with the content area professor, the secondary education professor, the student, and the professional mentor. This course deals with teaching high school psychology. Particular attention is focused on diverse and at-risk student populations. Methods of teaching psychology, reviewing psychology texts for content appropriate to various grade levels, and the use of technology in the classroom constitute majors parts of the course. Attention is also given to the performance of research in the field of psychology.

Prerequisite: admission to the teacher education program, senior standing

## **PSY431**

### **Psychological Testing and Assessment**

Semester: Spring. Semester Hours: 3.

This course provides an introduction to the theory and practice of testing and clinical assessment procedures. Emphasis will be on the development and standardization of current psychological tests. The student will become acquainted with the strengths and weaknesses of the major tests in use today.

Prerequisite: PSY101 and MAT210

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## **PSY450**

### **Internship**

Semester: Fall and Spring. Semester Hours: 1-12.

An applied course in which interviewing techniques, listening skills, observation and assessment procedures, and counseling skills will be reviewed and practiced at a local agency. Observation of the student and feedback on developing skills will be shared throughout the training program. Pass/no pass grading. Contract is required.

Prerequisite: PSY305; and PSY306 or PSY483

## **PSY483**

### **Psychological Counseling**

Semester: Fall. Semester Hours: 3.

Students examine the theories and techniques used in the field of counseling. The course includes the discussion of psychopathologies, cultural diversity, privacy issues, counselor ethics, professionalism, and personality characteristics of both counselor and client as well as the effects of these issues on the counseling process.

Prerequisite: PSY101 plus six additional semester hours in psychology

## **PSY490**

### **Seminar in Physiological Psychology**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course provides a study of the anatomical, biochemical, and physiological aspects of human psychology. Students will have a detailed knowledge of the anatomy of the human brain and nervous system, and understand the biochemical principles that relate to the human nervous system and the physiology involved in phenomena such as sleep, memory, schizophrenia, and depression.

Prerequisite: PSY101, one course in biology or one course in chemistry

## **PSY499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## **Sociology & Anthropology**

*Ronald P. Cochran, Professor*

The goal of the sociology/anthropology major is to develop students' sociocultural imaginations: to understand how, and to what extent, individuals' behavior is influenced by others in their society and those who share their culture. The objective is to have students apply the many theories in this paradigm to various social phenomena, such as conformity, deviance, family, stratification, prehistory, evolution, social welfare, cultures other than their own, and their own culture.

### **Major in Sociology & Anthropology**

A minimum of 30 semester hours is required, including

- SOC324 Sociocultural Theory
- SOC408 Introduction to Social Research
- SOC409 Practicing Social Research

SOC477 Sociocultural Analysis of Subcultures: Cults/Sects

Choose one of the following:

- SOC101 Introduction to Sociology
- SOC242 Cultural Anthropology

Choose one of the following:

- SOC321 Criminology
- SOC353 Introduction to Social Work

### **Minor in Sociology & Anthropology**

A minimum of 18 semester hours is required, with at least nine at the upper-division level, or six semester hours at the upper-division level if SOC324 Sociocultural Theory is completed.

## **Sociology & Anthropology courses**

### **SOC101**

#### **Introduction to Sociology**

Semester: Fall. Semester Hours: 3.

Students examine the nature of the sociological perspective, macro- and micro-sociological theory, and sociological methodology and research. Society's social organization, social structure, social interaction, socialization, social institutions, deviance and social control, social stratification, ethnic and racial minorities, gender, the family, education, religion, and other topics from a sociological perspective are also explored.

### **SOC201**

#### **Social Psychology**

Semester: Fall. Semester Hours: 3.

Students study the behavior of individuals as it is controlled, influenced, or limited by the sociocultural environment, social interaction, and basic interrelations of the individual, society, and culture. This course is designed to enable students to see themselves as both shaping and being shaped by their culture. Attention is also focused on inclusion and diversity. This course is cross listed with PSY 201.

Prerequisite: PSY101

### **SOC242**

#### **Cultural Anthropology**

Semester: Spring. Semester Hours: 3.

Students are introduced to anthropological analysis of human behavior. Topics will include a cross-cultural examination of the systemic relations among economic, social, political, and religious behaviors in various cultures.

### **SOC310**

#### **Social Stratification**

Semester: Fall, Alternate Years. Semester Hours: 3.

Students examine the causes and consequences of the differential distribution of power, property, and prestige within social groups. Consideration is given to conservative as well as radical sociological perspectives on social stratification.

Prerequisite: SOC101 or SOC242 or permission of the instructor

### **SOC321**

#### **Criminology**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course focuses on the nature and extent of crime and delinquency: an historical survey of explanatory theories focusing

# Academic Programs

on the economic, social, and psychological causes of criminal behavior; and current methods of treatment, policy, and prevention.

Prerequisite: SOC101

## **SOC324**

### **Sociocultural Theory**

Semester: Fall, Alternate Years. Semester Hours: 3.

A study of the historical development of the fields of anthropology and sociology with an emphasis on the contributions of both classical and modern social theorists in the development of key concepts in the study of social and cultural behavior.

Prerequisite: SOC101 or SOC242 or permission of the instructor

## **SOC342**

### **Deviance**

Semester: Spring. Semester Hours: 3.

This course investigates deviant (normative and statistical) social behavior. A variety of psychological, economic, sociological, and anthropological theories are used to analyze the causes, consequences, and social responses to behaviors such as sexual violence, suicide, mental illness, illegal drug use, homosexuality, and heterosexual deviance.

Prerequisite: SOC101 and SOC242 or permission of the instructor

## **SOC353**

### **Introduction to Social Work**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course will provide the student with a general understanding of the professional field of social work and social work practice. The roles and functions of the professional social worker, as well as intervention strategies, will be addressed. The course will also acquaint students with important historical developments in, and the evolution of, social work as a profession. Students will learn from a variety of social workers from many different fields of social work.

## **SOC384**

### **Evolution of Social Stratification**

Semester: Fall, Alternate Years. Semester Hours: 3.

The objective of this course is to muse about how the widespread modern phenomenon of social stratification originally evolved. While humans lived as egalitarian hunters and gatherers for 99% of their history, and all scientifically studied hunters and gatherers have an egalitarian social structure, no one knows how unequal power and wealth developed. How did societies in which having more than others, or trying to tell others what to do, were considered sure signs of insanity, change into stratified societies? This course explores ideas that chiefdoms, intermediate between tribes and states, hold some answers because they are the first to achieve non-kin based organization with stratified power and wealth.

Prerequisite: SOC101 and SOC242 or permission of the instructor

## **SOC408**

### **Introduction to Social Research**

Semester: Fall, Alternate Years. Semester Hours: 3.

Fall semester alternate years. 3 semester hours. Students will complete the tasks necessary for conducting sociological research prior to the collection of data. Students will write a re-

search proposal to include the development of a research question (hypothesis), a literature review of existing research on this topic, identification of a population for study, choice of two research methodologies for data collection, choice of analytical tools, and a statement of expected results. After successful completion of this course students will be prepared for SOC409 Practicing Social Research.

Prerequisite: SOC324

## **SOC409**

### **Practicing Social Research**

Semester: Spring, Alternate Years. Semester Hours: 3.

Students will complete an independent research project based on a research proposal. Data will be collected using two research methodologies and then statistically analyzed. Write a final report presenting the results of the research as compared to previous studies, a critique of the results, and suggestions for further work.

Prerequisite: SOC408

## **SOC450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. The internship should relate to the student's major or minor area of study. Contract is required.

Prerequisite: junior or senior standing

## **SOC477**

### **Sociocultural Analysis of Subcultures: Cults/Sects**

Semester: Spring, Alternate Years. Semester Hours: 3.

Students write a major paper in which they present elements of social science thought from the related social science courses and connect this body of thought to traditions of sociological and anthropological thought.

Prerequisite: one lower-division and one upper division course in a related social science field: psychology, economics or political science, or permission of the instructor; SOC 324 is recommended

## **SOC499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater.

Prerequisite: junior or senior standing

## **Theatre Arts**

*Linaya L. Leaf, Professor*

*Gearld B. Roe, Professor*

*Sarah Brewer, Associate Professor*

The College's theatre arts program provides students with a liberal arts-based theatre education. It the goal of the program that students will develop a life-long passion for this collaborative art form. The program encourages all students on campus to participate in theater production. By its very nature, theatre is multi-disciplinary.

# Academic Programs

The theatre arts program provides both majors and non-majors with experience as performers, technicians, and designers. When building performance skills, students explore the creative process using their imagination, movement, and voice. According to their interests, students may also explore directing or stage management. Studies in technical design may include scenery, lighting, costumes, or sound. Upon graduation, students will have worked in all major genres and be prepared for a future in theatre.

Theatre arts offers two areas of emphasis for the major (performance or technical) or a minor. Either emphasis encompasses intensive professional training while preparing students for graduate school or employment in the theatre.

## Major in Theatre, Performance Emphasis

A minimum of 42 semester hours is required, including:

- THR132 Acting I: Beginning Acting
- THR232 Acting II: Characterization
- THR240 Voice and Diction
- THR242 Modern Dramatic Literature
- THR250 Directing I
- THR253 Classical Dramatic Literature
- THR335 Acting III: Shakespearean
- THR433 Theatre History I: Beginnings through Neo-Classicism
- THR434 Theatre History II: Romanticism to the Present
- THR435 Acting IV: Period Acting Styles
- THR483 Senior Project

Three Semester Hours Required:

- THR291 Theatre Practicum

Choose two of the following:

- THR135 Stage Makeup
- THR203 Creative Drama
- THR230 Movement for Theatre
- THR347 Musical Theatre
- THR432 Audition Preparation

## Major in Theatre, Technical Emphasis

A minimum of 43 semester hours is required, including

- THR101 Introduction to Theatre
- THR131 Technical Production
- THR235 Drafting for the Stage
- THR242 Modern Dramatic Literature
- THR250 Directing I
- THR253 Classical Dramatic Literature
- THR433 Theatre History I: Beginnings through Neo-Classicism
- THR434 Theatre History II: Romanticism to the Present
- THR483 Senior Project

Four semesters of one of the following:

- THR291 Theatre Practicum
- THR391 Advanced Theatre Practicum

Choose two of the following:

- THR310 Lighting Design
- THR315 Scene Design
- THR320 Costuming for the Stage

Choose 6 credits from the following:

- THR135 Stage Makeup
- THR245 Scene Painting
- THR336 Rendering for the Stage
- THR391 Advanced Theatre Practicum

## Minor in Theatre Arts

A minimum of 19 semester hours is required, including

- THR101 Introduction to Theatre
- THR131 Technical Production
- THR132 Acting I: Beginning Acting
- THR135 Stage Makeup
- THR291 Theatre Practicum
- THR433 Theatre History I: Beginnings Through Neo-Classicism
- THR434 Theatre History II: Romanticism to the Present

## Theatre Arts courses

### THR101

#### Introduction to Theatre

Semester: Fall and Spring. Semester Hours: 3.

This course provides a survey of the unique world of live theatre. Students will examine theatre as an art, exploring its various components: the actor, the playwright, the designer, the director, the dramatic structure, and the history of theatre.

### THR110

#### Introduction to Cinema

Semester: Fall, Alternate Years. Semester Hours: 3.

This course is taught only in conjunction with the Rocky Freshman Experience. This course provides an introduction to the art of the cinema. Topics include history, genre, acting and directing styles, and the industry's response to cultural issues.

### THR131

#### Technical Production

Semester: Spring. Semester Hours: 3.

Students examine a practical approach to the fundamentals of technical theatre. The course includes becoming familiar with tools, equipment, and the technology used in stage construction. Construction projects are required.

### THR132

#### Acting I: Beginning Acting

Semester: Fall and Spring. Semester Hours: 3.

The student receives the fundamental skills and techniques for an in-depth exploration of the acting process. Through monologue and scene work, improvisations and exercises, students will learn to communicate effectively with others on and off stage. Areas of concentration include the development of self-awareness, vocal production, physical flexibility, and emotional exploration.

### THR135

#### Stage Makeup

Semester: Fall. Semester Hours: 3.

Students receive practical training in the design and application of theatrical makeup. Class projects will include standard, corrective, animal, fantasy, monster, and other makeups.

# Academic Programs

## **THR203**

### **Creative Drama**

Semester: Spring, Alternate Years. Semester Hours: 3.  
Creative drama is a student-centered, process-oriented form of drama in which the focus is on the personal development of the participant. Students do drama exercises, which help them to develop skills in building character, relating to a setting, improvisation, story dramatization, social drama, and applications of this process for more formal theatre work. Students create five scenes with fellow students, performing roles in those scenes before class peers. This course fulfills the general education requirement for fine arts.

## **THR230**

### **Movement for Theatre**

Semester: On Demand. Semester Hours: 3.  
In this course, the focus is on the principles, practices, and exercises in body technique and stage movement. The student learns concentration, centering, balance, agility, and movement skills through various techniques.

## **THR232**

### **Acting II: Characterization**

Semester: Spring, Alternate Years. Semester Hours: 3.  
This course builds upon the principles developed in Acting I. It stretches the actor's range by exploring methods of creating a character. Scene analysis is examined to discover the essence of the character clarifying motivation and intention. Selected scenes from realistic texts by Chekhov, Ibsen, Strindberg, and Shaw will be incorporated.  
Prerequisite: Prerequisite: THR132

## **THR235**

### **Drafting for the Stage**

Semester: On Demand. Semester Hours: 3.  
A study of the drafting skills and techniques required for technicians and designers. Time will be spent in the study of hand-drafting as well as computer-aided drafting.

## **THR240**

### **Voice and Diction**

Semester: Spring, Alternate Years. Semester Hours: 3.  
Fundamental concepts of vocal production are examined. Students take an in-depth look at the vocal mechanism and its importance to the live stage performance. The course prepares the student to effectively produce audible, intelligible speech. Each student will become proficient utilizing "Standard Stage" speech.

## **THR242**

### **Modern Dramatic Literature**

Semester: Fall, Alternate Years. Semester Hours: 3.  
Fall semester, alternate years. 3 semester hours. Focusing on script analysis, students consider diverse trends in play-writing and theatrical performances over the past hundred years as viewed through the works of the major playwrights of Europe and the United States. Trends studied include realism, expressionism, surrealism, cubism, and absurdism. This course encourages cross-cultural understanding. This course is cross listed with ENG 242.

## **THR245**

### **Scene Painting**

Semester: Spring, Alternate Odd Years. Semester Hours: 3.  
An overview of various painting techniques used in a theatrical setting. These may include, but are not limited to: woodgraining, marble, brick, and stenciling. A fee for materials will be charged.

## **THR247**

### **Puppetry**

Semester: On Demand. Semester Hours: 3.  
The course examines the use of puppets in educational, recreational, therapeutic, and religious settings. Design, construction, and manipulation of various kinds of puppets will be covered. Students will be given opportunities to develop performance skills through theatrical processes. While the course will focus on fundamentals, students will be encouraged to pursue their special puppetry interests and needs.

## **THR250**

### **Directing I**

Semester: Spring, Alternate Years. Semester Hours: 3.  
This course provides an introductory study of the numerous functions of a stage director from play selection to the final performance, emphasizing the development of directorial skills. Students will direct a one-act play.

## **THR253**

### **Classical Dramatic Literature**

Semester: Fall, Alternate Years. Semester Hours: 3.  
Fall semester, alternate years. 3 semester hours. Focusing on script analysis, this course provides a chronological study of the major theatrical periods of dramatic literature from the emergence of Greek tragedy in the fifth century BC to the development of European realism in the late nineteenth century. The course also encourages cross-cultural understanding. This course is cross listed with ENG 253.

## **THR291**

### **Theatre Practicum**

Semester: Fall and Spring. Semester Hours: 1.  
Students participate in theatre productions under the supervision of the theatre faculty. Credit may be given for lighting, set construction, house management, costuming, publicity, and more. Grades are on a pass/no pass basis only.

## **THR310**

### **Lighting Design**

Semester: On Demand. Semester Hours: 3.  
This course provides a study of the principles, technology, and aesthetics of designing stage lighting. Practical application is emphasized.  
Prerequisite: THR131

## **THR315**

### **Scene Design**

Semester: On Demand. Semester Hours: 3.  
This course examines the principles and aesthetics of generating practical, working designs for the modern stage. Requirements include models and research presentations.  
Prerequisite: THR131



# Academic Programs

## **THR320**

### **Costuming for The Stage**

Semester: On Demand. Semester Hours: 3.

This course will investigate the role of costumes in theatrical production. Topics include costume history, color theory, and light/fabric relationships. Practical designs and construction projects will be completed.

Prerequisite: THR131

## **THR335**

### **Acting III: Shakespearean Techniques**

Semester: Fall, Alternate Years. Semester Hours: 3.

Students will explore and apply the techniques necessary for the preparation and performance of Shakespeare. The focus of the work is on thorough script and verse analysis, interpretation, voice, and movement. Acting monologues and several scenes are required.

Prerequisite: THR232

## **THR336**

### **Rendering for The Stage**

Semester: On Demand. Semester Hours: 3.

A study of the media and techniques used to present a theatrical design. Practical application in rendering a scenic, lighting, and costume design.

Prerequisite: ART101

## **THR347**

### **Musical Theatre**

Semester: On Demand. Semester Hours: 3.

This course provides an introduction to musical theatre. Study includes such topics as musical conventions historical perspectives, act-ability of musical numbers and staging of numbers. The course will culminate in an evening performance of prepared audition numbers.

## **THR391**

### **Advanced Theatre Practicum**

Semester: Fall and Spring. Semester Hours: 2-3.

Students participate in theatre productions under the supervision of the theatre faculty. Credit may be given for lighting, set construction, house management, costuming, and publicity. Each project will be given a letter grade.

Prerequisite: permission of professor

## **THR420**

### **Methods and Materials: Teaching Theatre Arts in the Secondary School**

Semester: On Demand. Semester Hours: 3.

This course requires focused study and consultation with a public school theatre teacher or other acceptable professional. Hours will be arranged in consultation with the content area professor, the secondary education professor, the student, and the professional mentor. This course provides a study of curriculum development and theatre production in the secondary school. Students study production possibilities within various educational settings. Students also explore methods for creating instructional and motivational curricula.

Prerequisite: admission to the teacher education program, senior standing

## **THR432**

### **Audition Preparation**

Semester: On Demand. Semester Hours: 3.

Cold readings, prepared auditions, and the interview will be scrutinized. Upon completion of this course, students will be equipped to present diversified auditions. Effective resumes and photographs will be examined.

Prerequisite: THR132

## **THR433**

### **Theatre History I: Beginnings to Neoclassicism**

Semester: Spring, Alternate Years. Semester Hours: 3.

Spring semester, alternate years. 3 semester hours. This course provides a chronological study of the history of theatre from its origins to the 1850s. Critical theories, representative plays, and the physical conditions that contributed to the mainstream of theatrical history will be covered.

## **THR434**

### **Theatre History II: Neoclassicism to The Present**

Semester: Spring, Alternate Years. Semester Hours: 3.

This course provides a chronological study of the history of theatre from Darwinism through modern drama. Critical theories, representative plays, physical conditions, theatrical conventions, and cultural and social movements, which affect the mainstream of theatrical history, will be covered.

## **THR435**

### **Acting IV: Period Acting Styles**

Semester: Spring, Alternate Years. Semester Hours: 3.

Students examine and perform fundamental styles of movement and expression dictated by specific historical periods.

Prerequisite: THR335

## **THR440**

### **Performance/Design**

Semester: On Demand. Semester Hours: 1-3.

Performance Emphasis: Students prepare and perform a major role in a Rocky Mountain College production. Each role must be approved and supervised by faculty. A daily rehearsal and performance journal and a major character analysis paper are required. The paper will address the role being undertaken and how it fits into the thematic structure of the piece, as well as how the actor applies the arc of the character in performance. Credit is dependent on role. This course is repeatable to a maximum of three credits. Design Emphasis: Students will prepare a design for a major element in a Rocky Mountain College production. A daily journal during the building process and technical rehearsals is needed. A critical paper is required, addressing struggles and successes within the process. Credit is dependent on development and creation of the design.

## **THR450**

### **Internship**

Semester: On Demand. Semester Hours: 1-12.

This course is a guided work experience in an already established place of business. The student must arrange the internship in agreement with the instructor and the office of career services. The internship should relate to the student's major or minor area of study. Contract is required.

Prerequisite: junior or senior standing

# Academic Programs

## **THR471**

### **Shakespeare**

Semester: Spring, Alternate Years. Semester Hours: 3.

Students are provided with an advanced examination of representative Shakespearean plays. Emphasis is placed equally on script analysis and the acting process.

## **THR483**

### **Senior Project**

Semester: On Demand. Semester Hours: 3.

A course designed for the senior as a culmination of study in his/her area of concentration. Theatre faculty must approve the project by the end of the student's junior year. Each project will be closely supervised by faculty. Requirements for this course can be met in one of four ways:

- Acting: A student will act a major role in a full-length play. Journals and analysis required;
- Directing: A student will direct a full-length play during Rocky Mountain College's main season. Journals and analysis required;
- Play writing: A student will write a play and arrange for a public reading of that play. Journals and analysis required;
- Technical: A student must complete a design for lights, costumes, and/or sets for a Rocky Mountain College or Billings Studio Theatre production. A technical student may also stage manage a major production. Journals and analysis required.

Students will meet individually on a regular basis with their faculty supervisor throughout the duration of the project. Performance students will be required to turn in character analysis, play analysis, and/or research paperwork. Technical students will be required to turn in all design (or management) paperwork. Deadlines for the appropriate paperwork will be determined at the beginning of the semester during which the senior project will be completed. Following completion of the senior project, students will meet with all theatre faculty to discuss the production, journal, analysis work, and upcoming goals.

## **THR490**

### **Seminar**

Semester: On Demand. Semester Hours: 1-3.

Selected topics in theatre are explored.

## **THR499**

### **Independent Study**

Semester: On Demand. Semester Hours: 1-3.

This course allows a superior student to devise and pursue independent study in an area agreed upon in consultation with, and supervised by, a faculty member. Students should be either a major or minor and have a cumulative GPA of 3.00 or greater. Prerequisite: junior or senior standing

## ADMINISTRATION AND STAFF

### President, Michael R. Mace, BS

Executive Assistant to the President, Pam Erickson  
Director of News and Information, Dan Burkhart, BA  
Content Manager/Collegiate Photographer, David Shumway, BS  
Executive Director of Title III, Anthony Piltz, BS, MAc, CMA, CFM, CPA  
Administrator of the Institute for Peace Studies, Cindy Kunz, AA  
Office Assistant, Nichole Haratyk, MAc

### Academic Vice President/Provost,

Anthony Piltz, BS, MAc, CMA, CFM, CPA  
Associate Academic Vice President, Barbara Vail, BA, MS, PhD

Administrative Assistant, Linda Eliason, BA  
Vice President for Enrollment Management, Kelly Edwards, BS, MA  
Office Manager, Deb Faw, BS  
Director of Financial Assistance, Jessica Francischetti, BA  
Financial Assistance Counselor I, Coleen Schultz  
Financial Assistance Counselor II, Martha Thompson  
Associate Director of Admissions, Meghan Oliver, BS  
Assistant Director of Admissions, Austin Mapston, BA  
Events Coordinator & Parent Relations, Kristin Mullaney, BS  
Information and Application Manager, Scott Kunz, BA, BS  
Admissions Counselor, Sean Coleman, BS  
Admissions Counselor, Angela Fulkerson, BA, BA, MS  
Admissions Counselor, Carsen Myhre, BS  
Admissions Counselor, Dominick Vergara, BS, MA  
Transfer Coordinator, Shannon Ryan, BS  
Web Journalist, Erica Wall, BA  
Registrar, Leslie Edwards, BA, MA, PhD  
Administrative Assistant to the Registrar, Marlene Arney  
Director of Student Records, Carole Peterson  
Transcript Coordinator, Geralyn Hill  
Associate Vice President and Director, Services for Academic Success (SAS), Jane Van Dyk, BA, PhD  
Academic Specialist, Bob Ketchum, BS  
Academic Specialist, Elizabeth McNamer, BA, MA, MA, EdD  
Academic Specialist, Robyn Cummings, BS, MEd  
SAS Administrative Assistant/Academic Specialist, Mary Reiter, BS, MS  
Director of Aviation, Daniel G. Hargrove, BS, MS  
Flight Simulator and Safety Program Manager, Tom Nelson, BS, MBA  
PT Flight Simulator Instructors: Brad Koch, BS, Josh McDowell, BS  
Computer Testing Administrator (Aviation), Diane Cochran, BS  
Director of Flight Operations, Josh Mlnarik, BA  
Assistant Director of Flight Operations/Chief Flight Instructor, **OPEN**  
Office Manager, Flight Operations, Sharon Klem

PT Flight Instructors: Ryan Baer, BS; James Campbell; Michael Danrow; Logan Grant, BS; Wade Heverly; Casey Holst, BS, BS; Jacob Keierleber, BS; Kenneth Ketcham; Josh McDowell, BS; Andrew Scheffer; Chuck Sowell, BS; Doug Thorne; Chelsea Wagner, BS  
Director of Maintenance, Doug Erickson  
A&P Mechanic, Trevor Smith  
Facility Manager at Equestrian Center, Allison Grow  
Director of Library, Bill Kehler, BS, MLS  
Assistant Director of Library, Bobbi Otte, BA, MLS  
Library Associate, Bethany Dopp, BA  
Library Assistant, Alice Cachat-O'Reilly, BA, MLS  
Library Assistant, Rob Peterson, BA  
Director of International Programs, Amber West Martin, BA, MEd  
Institutional Research Analyst, Erik Willborg, BS, MAcc  
Director of the Physician Assistant Program/Associate Professor, Robert Wilmouth, BA, MD  
Medical Director/Associate Professor of Physician Assistant Program, David Klein, BA, MD  
Associate Director/Academic Coordinator/Assistant Professor of Physician Assistant Program, Heather Heggem, BA, MPAS, PA-C  
Office Manager/Program Review Coordinator for Physician Assistant Program, Deb Hayter, AA  
Assistant Professor of Physician Assistant Studies/ Director of Clinical Education, Tanja Sloan, AS, BS, RN, PA-C  
Asst. to Director of Clinical Education, Jeanette Tasey  
Associate Professor of Physician Assistant Program, Jeffrey Lakier, M.B.Ch, M.D., F.C.P.  
Assistant Professor of Physician Assistant Studies, Patti States, BA, MD  
Assistant Professor of Physician Assistant Studies, Ari Greenberg, PA-C  
Admissions Counselor for Graduate Programs, Margia Pretlow, BS  
Director of Educational Leadership and Distance Elementary Education, Stephanie "Stevie" Schmitz, BS, MS, EdD  
Assistant Director of Educational Leadership and Distance Elementary Education, Christine Unquera, BS  
Director of Academic Computing, Dan Wolters, BS, MS  
Linux System Administrator, Andrew Niemantsverdriet  
Director of Administrative Computing, Kellee Pierce, AA  
Application Specialist/Programmer, Dave Gulbrandson, BA  
Director of Title III, Tom Kalakay, BSc, MSc, PhD  
Retention Officer/Advising Specialist, Robyn Cummings, BS, MEd

### Chief Financial Officer, Carol Jensen, BS, CPA

Director of Accounting/Tax Manager, Kathy McKibbin, BS  
Accounts Receivable Representative, Dianne Capron  
Senior Accountant, Becky Berge, BS, CPA, CMA  
Accountant II, Tracy Czudak, BS  
Accounting Clerk II (Accounts Payable/Payroll Coordinator), Vicki Montgomery  
Accounting Clerk I (Accounts Payable/Student Payroll), Amy Kintz  
Revenue Accounting Clerk/Cashier, Lynn Brady, AA

Director of Human Resources, N. Greg Kohn, BA, MM,  
PHR  
Human Resources Administrator, Cindy Hessler, BS

## **Vice President/Dean for Student Life,**

**Brad Nason, BS, MS**

Office Manager for Student Life, Teresa Rowen, BA  
Associate Dean of Student Life, Katie Carpenter, BS, MSW  
Athletic Director, Robert Beers, BS  
Assistant Athletic Director/Sports Information Director,  
Austin Tait, BS

Student Assistant for Athletic Department, Adrianna Frank  
Head Varsity Women's Volleyball Coach, Laurie Kelly, BS  
Asst. Volleyball Coach II, Sarah Madinger, BS  
Head Varsity Women's Basketball Coach, Brian Henderson,  
BS

Head Junior Varsity Women's Basketball Coach, Austin Tait,  
BS

Student Assistant (Women's Basketball), **OPEN**  
Head Varsity Men's Basketball Coach, Bill Dreikosen, BA,  
MEd

Student Assistant (Men's Basketball), Len Wilkins  
Head Junior Varsity Men's Basketball Coach, Wes Keller,  
BS

Head Varsity Cross Country/Track Coach, Alan King, BS  
Head Varsity Men's and Women's Golf Coach, Randy  
Northrop, BA

Assistant Coach PT (Golf), Aaron Pohle  
Director of Soccer Operations, Richard Duffy, BUS, MM  
Assistant Coach I (Women's Soccer), Kevin Luse  
Assistant Coach I (Men's Soccer), Jared Dickerson, BA  
Head Varsity Football Coach, Brian Armstrong, BA,  
MEd

Varsity Football Offensive Coordinator, BJ Robertson, MA  
Varsity Football Defensive Coordinator, Matt Hollowell,  
BS, MEd

Student Assistants (Football), Bryce Carich, Ryan Workman  
Head Varsity Men's and Women's Skiing Coach, Jerry Wolf,  
BA

Student Assistant (Skiing), **OPEN**  
Athletic Trainer, Shelly Turner, BS, MS  
Student Assistant to Athletic Trainer, **OPEN**  
Cheerleading Coach, Kelsey Daer

Director of Intramurals/Outdoor Recreation, Tim Lohrenz,  
BA, MEd

Counselor, Cynthia Hutchinson, BA, MS, Licensed Clinical  
Professional Counselor

Director of Career Services, Blaire Martin Brush, BS  
Community Services Coordinator, Jill Washburn, BS  
College Chaplain/Director of Campus Ministries and  
Church Relations, Kimberly Woeste, BA, MDiv,  
MTS

Nurse, Audrey Jurovich, RN  
Director of Residence Life, Lindsay Rossmiller, BA  
Residence Director, Anderson, Heather Connolly, AA  
Residence Director, Rimview, Bryn McFerrin, BS  
Residence Director, Widenhouse, Zach Renstrom, BS  
Director of Campus Safety Programming, Jayme Green, BA  
Director of Student Activities, Cara Lohrenz, BA  
Director of Central Operations, Leon Bruner, BA

Central Operations Clerk, Rob Peterson, BA  
Director of Facility Services, Terry Steiner, BA  
Office and Staff Assistant, Crystal Voss  
Engineer, Bill Defferding  
Assistant Engineer, Don Kinman, BA  
Assistant Technician/Groundskeeper, William Greenwalt,  
AA  
Carpenter, Bill Kimmerle  
PT Carpenter, George Grossi  
Custodial Supervisor, Joanne Bohlman  
Custodian/Maintenance: Evelyn Defferding, Laurie Thompson  
Custodial Staff: Kristin Leitner, Lori Look, Julie Lott,  
Thomas Sanchez, Earl Tate  
Custodian/Technician, Harold Lott  
PT Custodial Staff: Roger Grooms, Carl Kershner, Marty  
Wallace  
Operations Director Fortin Center, Gail Nutting  
Coordinator of Conferences and Camps, Wes Keller, BS  
Secretary for Fortin Center/Conferences & Camps, Dodie  
Rife

## **Vice President for Advancement,**

**Julie Seedhouse, BS, MS, MS**

Executive Assistant to VP for Advancement, **OPEN**  
Director of Development, Vicki Davison, BS  
Director of Planned Giving, Obert Udem, BA, MBA, JD  
Major Gifts and Campaign Advancement Officer, Kathy  
Ruff  
Director of Alumni, **OPEN**  
Advancement Office Administrator, Bryce Wulf, BS

## **DIVISION STRUCTURE**

Barbara Vail, Associate Academic Vice President

### **Arts and Humanities**

Jacqueline Dundas, Division Chair  
Art  
Communication Studies  
English  
Foreign Languages and Literature  
History and Political Science  
IDS  
Music  
Native American Studies  
Philosophy and Religious Thought  
Sociology/Anthropology  
Theatre Arts

### **Sciences and Mathematics**

Derek Sjostrom, Division Chair  
Biology  
Chemistry/Biochemistry  
Computer Science and Information Technology  
Environmental Science and Studies Geology  
Mathematics  
Physics

## Professional Studies

Dan Hargrove, Division Chair

### Bachelor's Programs

Applied Management

Aviation

Business Administration and Accounting

Education

Equestrian Studies

Library

Physical Education and Health

Psychology

### Master's Programs

Accountancy

Educational Leadership

Physician Assistant Program

## FACULTY

**Ann Adair**, Assistant Professor of Business (2012). BS, MS, Colorado State University. PhD, Texas A&M University.

**Daniel Albrecht**, Professor of Biology (2002). BA, St. Olaf College. MS, University of North Dakota. PhD, University of New Mexico.

**Toby S. Anderson**, Associate Professor of Physics (2006). BS, Belmont University. MS, PhD, Vanderbilt University.

**James A. Baken**, Professor of Art (1990). BA, Montana State University-Bozeman. MFA, University of New Orleans.

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**Jay Cassel**, Professor of Religious Thought (1983). BA, Carleton College. MA, University of Washington. PhD, University of Iowa.

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**Jennifer Lyman**, Professor of Environmental Science & Studies (1989- 91, 1994). BA, Wellesley College. MS, PhD, University of California-Riverside.

**Ambrin Masood**, Assistant Professor of Psychology (2012). BS, University of the Punjab. MS, University of South Alabama. PHD, Auburn University.

**Josh McDowell**, Assistant Professor of Aviation (2012). BS, Rocky Mountain College.

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**Mark S. Moak**, Professor of Art (1987). BFA, MFA, University of Georgia.

**Amy Neuman**, (1999-2000, 2003) Assistant Professor of Equestrian Studies, BS, Rocky Mountain College.

**Scott Neuman**, Assistant Professor of Equestrian Studies (1991-1999, 2001). BA, Rocky Mountain College.

**Claire Oakley**, Professor of Biology (1986). BA, Ithaca College. PhD, Washington State University.

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**Paul A. Roper**, Professor of Physical Education and Health (1990). BEd, West Midlands College, West Midlands, England. MA, PhD, University of Connecticut.

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**Scott Severance**, Professor of Business (1996). BS, Rocky Mountain College. MA, University of Nevada-Las Vegas.

**Derek J. Sjostrom**, Assistant Professor of Geology (2003-2004, 2009). BS, University of Washington, MS, University of Montana. PhD, Dartmouth College.

**Tanja Sloan**, Director of Clinical Education/Assistant Professor of Physician Assistant Studies (2011). AS, Northwest College; BS, University of North Dakota, RN, PA-C.

**James Smith**, Professor of Business (2001). BS, Rocky Mountain College. MBA, University of Montana.

**Patti A. States**, Assistant Professor of Physician Assistant Studies (2007). BA, Carroll College, MD, University of Washington.

**Jason Stoke**, Assistant Professor of Physics (2012). BS, Colorado State University. MA, University of Toledo. PhD, Colorado School of Mines.

**David Strong**, Professor of Philosophy and Environmental Studies (1988). BA, University of Montana. PhD, State University of New York-Stony Brook.

**Jo Swain**, Associate Professor of Elementary Education (2004). BS, University of Montana. MS, Eastern Montana College. EdD, Montana State University-Bozeman.

**Rockland John Tollefson**, Assistant Professor of Accounting (2008). BS, MAcc, Rocky Mountain College.

**Barbara Vail**, Associate Academic Vice President/Professor of Psychology/Director of Education (1990). BA, Montana State University. M.S., Ph.D., Washington State University.

**Emily Ward**, Assistant Professor of Geology (2011). BA, Whitman College; MS, Washington State University; PhD, University of Montana.

**Lucas Ward**, Visiting Assistant Professor of Environmental Studies (2011). BA, Whitman College; MA, PhD, University of Colorado.

**Debra Wiens**, Professor of Mathematics (1988). BS, Rocky Mountain College. MS, Colorado State University.

**Andy Wildenberg**, Associate Professor of Computer Science (2009). BS, University of Iowa. PhD, University of Oxford.

**Robert Wilmouth**, Program Director/Associate Professor of Physician Assistant Program (2008). B.A. University of Notre Dame. Ph.D. University of Illinois.

**Scott Wilson**, Professor of Aviation (1995). BA, University

of Colorado. MEd, Eastern Montana College. JD, University of Montana.

## Emeriti Faculty

**Sandra L. Barz**, Professor Emeritus, Business Administration/Economics (1980-2012). BS, MBA, University of Montana. CPA.

**Victoria Christie**, Professor Emeritus, Communication Studies (1995-2012). BA, University of Montana. MA, University of New Mexico. PhD, University of Kansas.

**Birdeena Dapples**, Professor Emeritus, Computer Science and Mathematics (1982-2005). BS, Rocky Mountain College. MA, Northwestern University. EdD, Montana State University-Bozeman.

**Raymond Graham**, Professor Emeritus, Chemistry (1970-2000). BS, Indiana State University. PhD, Montana State University.

**William H. Jamison**, Professor Emeritus, Mathematics (1962-2005). BS, MS, Montana State University-Bozeman.

**Kathleen M. Joyce**, Professor Emeritus, French and Spanish (1966-1986). BA Hons, French, University of London. Diploma in Education, University of Cambridge, England. Docteur D'Universite, University of Aix-Marseille, France. Diploma of Spanish Language and Culture, University of Santiago, Spain.

**David G. Kimball**, Professor Emeritus, Aviation (1991-2003). BS, MS, Montana State University-Bozeman.

**James D. Masters**, Professor Emeritus, Education (1970-1992). BA, MA, University of Kansas. PhD, University of Missouri-Kansas City.

**Susan R. McDaniel**, Professor Emeritus, Humanities and Composition (1994-2012). BA, Smith College. MA, Middlebury College. PhD, Yale University.

**James I. McDowell**, Professor Emeritus, Business Administration/Economics (1965-2012). BS, Colorado State University. MS, Oregon State University. PhD, Oklahoma State University.

**Robert Morrison**, Professor Emeritus, Art (1967-1987). BA, Carleton College. MA, University of New Mexico.

**George R. Nelson**, Professor Emeritus, Education (1970-1996). BS, University of Oregon. MS, Southern Oregon College. DEd, University of Oregon.

**Marilyn Randall**, Professor Emeritus, Equestrian Studies (1992-2012). BS, Colorado State University. RPT, Northwestern University.

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