## Rocky Mountain College
### Catalog 2003-2005

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(Note: French, Greek, and Spanish are found under Foreign Languages and Literatures.)
History

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 found 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 a 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 a beginning 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 IUC, two brothers from Maine, Lewis T. and Ernest T. Eaton, leased the abandoned campus at the College of Montana and renamed it the Montana Collegiate Institute in a principal area of Bozeman to establish a school. The committee included former Governor Benjamin J. Potts and minister-missionary Brother William Van Orsdel.

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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 their curriculum.

Earthquakes seriously damaged the Intermountain Union College buildings in 1935, and after a brief move to Great Falls, IUC accepted the 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.

Rocky maintains a 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 RMC alumni from far and wide convene for their own Candlelight Suppers approximating the atmosphere, if not the menu, from that first Rocky supper.

Another more recent but equally popular tradition is the Yule Log Dinner and the Lighting of Losekamp. This Christmas ceremony involves the Rocky community in a celebration of all 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 – 1947-51
- Herbert W. Hines – 1951-58
- Philip M. Widenhouse – 1958-66
- Lawrence F. Small – 1966-75
- Bruce T. Alton – 1975-86
- James J. Ritterskamp, Jr. – 1986-87
- Arthur H. DeRosier, Jr. – 1987-2002
- Thomas R. Oates – 2002-

Rocky Mountain College continues its tradition of joining practical skills and the liberal arts, “The Liberal Arts in Action.” All the strains of our history are valued as students are prepared to be leaders in the 21st century.

Mission

At Rocky Mountain College, the liberal arts guide lifelong learning for academic, professional, personal, and spiritual growth. We challenge students to learn by rational inquiry, creative thought, and practical application to succeed in an ever-changing world.
Objectives

The college community is committed to enhancing academic excellence by providing opportunities
• to learn a discipline;
• to recognize the value of the liberal arts;
• to develop critical thinking;
• to recognize and explore ethical issues;
• to recognize the interrelatedness of disciplines;
• to enhance creativity in all endeavors;
• to develop learning as a life-long pursuit;
• to build communication skills;
• to explore one’s own culture in relation to other cultures; and
• to explore regional issues in the context of global concerns.

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 both 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. All 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 the northwest 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, MA, 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. The ASRMC lounge in the basement is one of the campus’s most popular spots. Anderson is connected to Widenhouse Hall, a co-ed complex of rooms and suites, each with private bathrooms and kitchenettes. The hall is named for Lula Anderson, a member of the first graduating class of Billings Polytechnic Institute.

Bair Family Center for the Sciences, 1981. Named for the family of Montana pioneer and rancher, Charles M. Bair, Rocky’s major science facility houses the science and mathematics disciplines and is complete with classrooms, laboratories, seminar rooms, faculty offices, and the computer center. 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; 1998. Located in the center of the campus, north of the Rocky Green, this structure houses the dining room, snack bar, bookstore, game room, student lounge, campus mail services, the offices of ASRMC, career services, and the vice president of student services. The building has been extensively expanded and remodeled.

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

RMC Bookstore, 1961; 1998. The college bookstore, stocked to meet students’ needs in books and supplies, is located in the Bair Family Student Center.

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

The 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, 2002. Located near the Laurel Municipal Airport, new runways and airfield facilities provide a superb flying environment.
with quick access to flight training airspace. Rocky’s fleet of new Piper Archer IIIs, with modern navigation and avionics systems, provides basic training aircraft for students. Beechcraft Bonanza and Baron aircraft round out the fleet. Nearby Billings Logan International Airport provides radar controlled instrument training capabilities for advanced training.

**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.

**Intermountain Equestrian Center.** Located nine miles from campus, RMC contracts facilities that include a large, heated indoor arena, two large outdoor arenas, round pens, numerous trails for pleasure riding, and top-notch stabling for 50 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 upperclass, nontraditional, and married students, as well as students with families.

**Kimball Hall**, 1914. This stone and stucco building, formerly a residence hall for women, was named for the late Mrs. Flora Kimball, Portsmouth, New Hampshire. She was the principal donor of funds for its construction.

**Losekamp Hall**, 1917. This building of sandstone, in a modified Collegiate Gothic style, was a gift of the late John D. Losekamp, a pioneer Billings merchant. It houses the music and theatre arts programs and the Ruth and Vernon F. Taylor Auditorium, which is used for convocations, chapel services, drama productions, recitals, and other special events. It also has studios, practice rooms, and 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 is a large paneled room with a wooden and beamed ceiling and has large fireplaces at each end. Before 1961 it served as the 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.

**Rocky Hall**, 1989. This stucco building located on the corner of Rimrock Road and Augusta Lane houses the aviation program and a day care center.


**Technology Hall**, 1922. This commodious sandstone structure contains offices, classrooms, art gallery, art and computer laboratories, and the college maintenance department.

**Tyler Hall**, 1930. This beautiful sandstone building in the Collegiate Gothic style is architecturally one of the finest on the campus. This gift of Mrs. G. W. Mehaffey, Brookline, MA, is a memorial to her father, the late W. Graham Tyler. It served until 1971 as a men’s residence hall. It now houses offices.

**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.

**Peace Studies**

*Dr. Lawrence F. Small; Board Chair
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 RMC 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 RMC’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 involved working with Russian farmers as they privatized agriculture in the Kuzbass region of southern Siberia. The Institute facilitates an upper-division political science class (“The John R. And Helen H. Bross Memorial 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 Jannette Rankin Peace Award and the
Edith Gronhovd 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 always welcome. The Peace Institute is located in Alden Hall (103). Contact the Institute via email at PeaceStudies@Rocky.edu or by phone (406) 657-1042.

Admission

LynAnn Henderson, Director

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 careful review of all 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, veteran status, sexual orientation, or familial status.

Requirements for Admission

All applications for admission are reviewed on an individual, rolling basis. Criteria for admission to Rocky Mountain College is listed below. Any 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 the following:
1. RMC application for admission
2. non-refundable application fee (international students, $40; all others, $25)
3. results of the ACT or SAT test may be required
4. official transcripts (high school, GED, and/or any post-secondary institutions)
5. an essay and two letters of recommendation may be required

In addition, the factors listed below may also be considered in reviewing applications for admission:
1. school transcripts
2. community service and work experience
3. extracurricular activities
4. special circumstances (e.g., health or personal)
5. ACT/SAT scores
6. recommendation forms
7. essay

For additional information, contact the office of admissions at 1 (800) 87 ROCKY.

Freshman Student Admission

Admission Criteria:
- High school diploma and a cumulative GPA of 2.50 or higher or an ACT/SAT score of 21/1000 or higher.
- Students with a cumulative GPA below 2.50 or a GED and an ACT/SAT score below 21/1000 will be considered for admissions by the student services committee of the faculty.
- In addition, students with a cumulative GPA below 2.50 or a GED and an ACT/SAT score below 21/1000 will have to submit an essay and two recommendation forms from references prior to review by the committee. Following the review, the student will be granted regular admission, conditional admission, or will be denied admission.
- 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.

Admission Checklist:
In addition to the items listed under “Requirements for Admission,” freshman students should also submit the results of the American College Test (ACT) or the Scholastic Aptitude Test (SAT).

Nontraditional Freshman Student Admission

Nontraditional students are those students who completed high school five or more years ago and have not attended any post-secondary institutions.
Admission Criteria:
• 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 2.50 or below will be considered for admissions by the student services committee as outlined above. ACT/SAT scores are not required for an admissions decision.
• Students will be required to submit an essay and two recommendation forms from references.

Transfer Student Admission

Admission Criteria:
• Students who have completed 27 or more transferable semester credit hours* from an accredited college or university with a cumulative college GPA of 2.00 or higher meet the requirement for regular admission.
• Students with a cumulative college GPA below 2.00 will be considered for admissions by the student services committee as outlined above.
• Students with fewer than 27 transferable semester credit hours will be considered for admission under the traditional or nontraditional freshman admission guidelines.

*Transferable courses include all courses taken that could meet degree requirements for Rocky Mountain College.

Admission Checklist:
Students who desire to transfer with advanced standing from another college must submit the following, in addition to the items listed under “Requirements for Admission”:
• ACT or SAT results. Students with 27 or more transferable semester credit hours are not required to submit ACT or SAT results.
• Official high school transcripts or official record of GED scores. Students transferring 27 or more credits to RMC are not required to submit high school transcripts or GED scores.
• Official transcripts from all colleges, vocational schools, or other post-secondary schools previously attended.

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:
  a. No more than 94 semester hours or 135 quarter hours of credit are acceptable from four-year colleges.
  b. No more than 64 semester hours or 96 quarter hours are acceptable from two-year colleges.
  c. No junior-or senior-level credit will be allowed for courses from two-year colleges.
  d. No “D” or “F” grades will be accepted.
  e. No preparatory/developmental classes below 100 level will be accepted.

Failure to reveal records of previous college attendance can be grounds for dismissal. Final determination of acceptance of credit is made by the office of the registrar.

International Student Admission

Rocky Mountain College invites students from other nations to apply for admission. The following prerequisites must be met for admission consideration:

Admission Criteria:
• Students with a high school diploma and a cumulative GPA of 2.50 and higher and a Test of English as a Foreign Language (TOEFL) score of 525 or higher (or 203 or higher on the computerized version, or an equivalent TOEFL score of 525 or higher on other recognized, standardized tests of general English language proficiency) meet the requirements for regular admission.
• Students with a cumulative GPA below 2.50 and/or TOEFL score of below 525 (or an equivalent TOEFL score of below 525 on other recognized, standardized tests of general English language proficiency) will be considered by the student services committee of the faculty.
• Students with a cumulative GPA below 2.50 and/or TOEFL score of below 525 (or an equivalent TOEFL score of below 525 on other recognized, standardized tests of general English language proficiency) will be considered by the student services committee of the faculty.
• Students with a cumulative GPA below 2.50 and/or TOEFL score of below 525 (or an equivalent TOEFL score of below 525 on other recognized, standardized tests of general English language proficiency) will be considered by the student services committee of the faculty.
proficiency) are required to submit additional information, including an essay and two recommendations from references prior to admission review by the committee. Following the review, the student will be granted either regular admission or conditional admission, or will be denied admission.

The following information may be considered in reviewing foreign students’ applications for admission:
1. essay
2. recommendations
3. school transcripts
4. extracurricular activities
5. level certificates or mark sheets
6. special circumstances (e.g., health or personal)
7. TOEFL scores (paper or computerized versions)
8. scores from other standardized tests of general English language proficiency

Admission Checklist:
In addition to the application for admission and the non-refundable application fee, the following are necessary to complete the foreign student admission process:
1. certified copies of transcripts from all secondary and post-secondary schools attended (Transcripts must be written in English.);
2. a one-page essay which explains the student’s academic goals;
3. a TOEFL score of 525 (or 203 on the computer version) or higher; and
4. a statement of financial support from the student’s sponsor or bank. This form is provided by Rocky Mountain College and must show that the student has adequate resources to pay expenses for the first year, such as tuition, fees, room, board, books, and other living expenses.

International Student Transfer Admission
If transferring from a college or university within the United States, a verification of status report is required. This form is provided by Rocky Mountain College. 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 may be required. A form can be provided by Rocky Mountain College.

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 a TOEFL score of 525 or higher (or an equivalent TOEFL score of 525 or higher on other recognized, standardized tests of general English language proficiency) meet the requirements for regular admission.
- Students transferring from colleges or universities in another country must pay an additional fee to have their credentials evaluated by an independent agency.
- Students with a cumulative GPA below 2.00 and/or TOEFL score of below 525 (or an equivalent TOEFL score below 525 on other recognized, standardized tests of general English language proficiency) will be considered for admission by the student services committee of the faculty as outlined above.

Upon acceptance to Rocky Mountain College, international students will be forwarded an admissions packet. It will contain the following items:
1. official acceptance letter
2. I-20 AB (used by the student to obtain an F-1 student visa)
3. residence hall contract
4. student health form and the news and information form
5. a letter from the international student advisor

Items 3 and 4 above and a non-refundable $200 tuition deposit should be returned to Rocky Mountain College. The deposit will reserve space in the student’s major and will be credited to the student’s account.

For more information about international student admission, contact the office of admissions at the address given at the end of this section. International students for whom English is a second language should contact the Director of International Programs at (406) 657-1107.

International Exchange Students
These students are not seeking degrees from the College but are enrolled as visiting students for a semester or a year with the goal of improving their
English language skills, exploring the region and 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 will establish mutual requirements.
- Students are screened by committees at the partner institutions 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 requirement, but standardized test scores are not required. Students receive Pass/Not Pass grades, certificates of participation, and copies of transcripts.

**Readmission Guidelines**

Students who previously attended Rocky Mountain College but were not enrolled during the previous semester must apply for readmission. Applications for readmission are available from the office of the registrar. Students must submit the application along with all transcripts from institutions attended since their last enrollment at Rocky.

**Admission Criteria:**

Students who left RMC in good academic standing will be approved for readmission if they

- have a minimum of 2.00 GPA on a 4.00 scale from any institution attended since their last enrollment at RMC;
- are in good standing at these institutions; and
- have not been convicted of a criminal offense.

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

1. an explanation of past performance;
2. strategies the student will employ to improve his or her academic standing; and
3. changes in the student’s personal life which will contribute to academic success.

Following this review, the student will be granted either regular admission or conditional admission, or will be denied admission.

**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 in the armed services. Credit evaluation is based on the American Council of Education guidelines and is awarded after successful completion of one semester. (See the “Academic” section of this catalog for guidelines.) Veterans and children of deceased veterans who are eligible for Veterans Administration (VA) funding must secure a certificate of eligibility through the regional VA office. The financial aid office serves as the VA representative on campus.

**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. letter of approval from parent or legal guardian;
2. letter from the student’s high school principal recommending early admission; and
3. 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 course work 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”

Program Admission

High school juniors or seniors who wish to take college courses while still in high school need to complete the application for admission (high school) and submit a letter of recommendation from a high school counselor or principal. There is no application fee for this program.

Students are able to enroll for up to 6 semester hours each semester while they are juniors and seniors. This includes the summer session 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 Admission

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

Learning Disabled Student Admission

Rocky Mountain College has a program for students with learning disabilities. Refer to information contained in the “Services for Academic Success” section.

Process of Admission Confirmation

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

Upon acceptance to Rocky Mountain College, students will be sent a letter of acceptance, as well as the following forms:

1. Residence Hall Contract or Off-Campus Residency Application
2. News and Information Form
3. Student Health Service Form
4. Services for Academic Success Application Form

Students are asked to submit the above items along with a $200 non-refundable tuition deposit. The deposit will be credited to the student’s account and will guarantee enrollment in the student’s chosen major.

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.

For information and application material, please contact

Director of Admissions
Rocky Mountain College
1511 Poly Drive
Billings, MT 59102-1796
1-800-877-6259
www.rocky.edu

Degree Completion Program Admission

Lyle Courtnage, Director
Amy Beatty, Assistant Director

Requirements for admission into the degree completion program to earn a bachelor of science degree in management are as follows:

1. completion of a minimum of 62 semester hours from an accredited college, university, or post-secondary institution;
2. submission of official transcripts from all accredited colleges, universities, or post-secondary institutions attended. Students must have a GPA of at least 2.00 on a 4.00 scale on all prior academic work;
3. completion of the application for admission and payment of a non-refundable application fee of $25 and tuition deposit of $100;
4. basic competency in accounting. Students must have taken a college-level accounting course, have work experience in accounting, or plan to enroll in a course after consultation.
with the degree completion program director;
and
5. proof of two measles and rubella immunizations unless born before Jan. 1, 1957.
At the admissions stage, students will be informed in writing of any general education courses still required, accompanied by a recommendation as to how they may be completed.
NOTE: An applicant who does not meet the above-stated requirements may be considered for admission by the degree completion program admissions committee.

For information, please contact
Degree Completion Program
Rocky Mountain College
1511 Poly Drive
Billings, Montana 59102-1796
406-657-1168
1-800-877-6259, ext. 1168

Physician Assistant Program Admission

Catherine Gemmiti, Director

Students must apply through the Central Application Service for Physician Assistants (CASPA). Complete CASPA information can be obtained online at www.caspaonline.org, or call 240-497-1895. Also refer to the physician assistant section in the “Department and Courses” section of this catalog for additional requirements for admission to the physician assistant program.

Students seeking admission to the physician assistant program who do not have the required course work completed are encouraged to complete this course work at Rocky Mountain College. A pre-physician assistant curriculum can be designed to meet the minimum course work requirements to seek admission to the physician assistant program. Enrolling in pre-physician assistant course work at Rocky Mountain College does not guarantee admission into the physician assistant program.

Financial Assistance

Lisa Browning, Director

Students who intend to apply for financial assistance must complete the following steps:
1. Be accepted for admission to Rocky Mountain College (see “Admissions” section of the catalog);
If you are applying for federal financial assistance, RMC will also need the following information:
2. Results from a completed Free Application for Federal Student Aid (FAFSA). With this form, the student’s financial need and eligibility for the federal student financial aid programs and many Rocky Mountain College scholarships/grants are determined. The FAFSA is available from any high school or college financial aid office. The preferred method for completing the FAFSA is on line at www.fafsa.ed.gov. 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 that they attend RMC.

When a student’s financial assistance eligibility has been determined, a financial assistance award notice will be mailed to the student. Accompanying the award letter will be consumer information further explaining the financial aid process.

Satisfactory Academic Progress

The federal government and Rocky Mountain College require students to maintain satisfactory academic progress toward a degree in order to continue receiving both federal and institutional financial aid. The following requirements are consistently applied to all students, full-time or part-time, who are receiving financial assistance.

1. Students must maintain a cumulative GPA of at least 1.75 until they have completed 26 credits including transfer credits;
2. Students must maintain a cumulative GPA of at least 2.00 after completing 27 credits including transfer credits. Transfer students must also maintain a cumulative GPA of 2.00 in the credits attempted at Rocky Mountain
3. All students must complete at least 67 percent of all credits attempted. Grades of “I,” “W,” “F,” “X,” and “NP” ARE counted as courses attempted but not successfully completed and will be counted as such in the determination of completion ratios. If a student completed a class that had a grade of “I” during a probationary semester, the actual grade will be registered, the student will receive credit for the course, and the grade will be factored into the qualitative component. It is up to the student to notify financial aid personnel of this change in order to re-examine the student’s probationary status. Non-credit remedial courses are not considered when determining satisfactory academic progress. When a student repeats a course, the grade for the last course attempted will be used to compute the academic record.

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. Federal guidelines expect students to complete their degree objective within 150 percent of the published length of the educational program. For instance, 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.

Satisfactory academic progress is reviewed at the end of each semester, including summer terms. Students who fail to maintain satisfactory academic progress during the semester will be placed on financial aid probation for the next semester enrolled. Students on probation may receive all financial aid except for federal or RMC work study for one semester and must meet the conditions of probation. Students who fail to meet the conditions of their financial aid probation will be suspended from further financial aid at Rocky Mountain College.

Suspensions from work study may be appealed to the Director of Financial Assistance 15 days from notification of suspension. A written appeal must include an explanation of probationary status, a plan of action to meet the conditions of probation, and why working will not jeopardize that plan. A decision regarding the appeal will be sent by mail to the student in a timely manner.

Any student who earns a GPA of 1.00 or less during any term, regardless of his or her cumulative GPA, will be placed on academic probation or may be suspended. If the student’s cumulative GPA is at least a 2.00 after earning less than a 1.00 GPA during any term, the student will be put on financial aid probation. The student must meet satisfactory academic progress by completing at least 67% of credits attempted with at least a 2.00 GPA during the probationary semester in order to remove the financial aid probation. The student may be suspended from all financial aid if the conditions of probation are not met regardless of that student’s cumulative GPA.

Financial assistance suspensions may be appealed to the Director of Financial Assistance within 15 days of notification of suspension. Generally, appeals will be granted for extraordinary circumstances beyond the student’s ability to control, such as prolonged illness or injury or death of an immediate family member. The appeal must be in writing and be documented to the extent that proof exists. A decision regarding the appeal will be sent to the student in a timely manner.

Students on financial aid suspension may regain eligibility for financial assistance by re-establishing the required GPA and/or completion ratios using their own resources. A student who repeatedly violates the standards for satisfactory academic progress may be suspended from further financial aid eligibility at RMC without a probationary period. It is the responsibility of the student to notify financial aid personnel when he or she has re-established satisfactory academic progress.

**PLEASE NOTE:** If a student does not maintain a cumulative GPA of at least a 2.00 after completing his or her second academic year at Rocky Mountain College (four semesters of attendance), the student will be suspended from all financial assistance without a probationary period until the cumulative GPA is at least a 2.00.

**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

Grants and Scholarships

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).

Federal Supplemental Educational Opportunity Grant (FSEOG): Based on demonstrated financial need of the student and awarded by the financial aid office as long as funds are available.

Institutional Grants and Scholarships: Rocky provides institutional grants and scholarships based on financial need and/or merit from the College’s financial resources. A student is not required to apply for federal student assistance in order to be eligible for RMC financial assistance. The maximum institutional amount for which a student is eligible is awarded to the incoming student and is guaranteed to the student within institutional packaging policy requirements. The student must be making satisfactory academic progress toward his or her degree and must maintain a cumulative GPA of at least a 3.00 in order to keep an academic scholarship. Other exceptions are those students receiving athletic grants. The complete awarding policy is located in the financial aid office.

Rocky Activity Grants

Activity grants are based on merit and participation.

Art, Vocal, Instrumental, Keyboard, Theatre, Creative writing, and Forensics grants are available for student participation. Awards are made by the Director of Financial Assistance with the recommendation of the activity director. The amount of each grant is determined by an audition or interview and by the amount of institutional assistance for which the student is eligible. Continuation of the award is at the discretion of the program director. Entering students should contact the office of admissions to set up an interview or audition with the program director.

Athletic grants are available for football, men’s and women’s basketball, men’s and women’s alpine skiing, women’s volleyball, women’s golf, and women’s soccer. Awards are made by the Director of Financial Assistance in consultation with the coaches in each sport.

Merit-Based Scholarships

These scholarships include but are not limited to

Academic Scholarship: This scholarship is based on academic performance. A minimum cumulative GPA of 3.00 is required. Students are eligible for only one institutionally funded academic scholarship each year. Students falling below a cumulative GPA of 3.00 will lose their academic scholarship. Reinstatement of an academic scholarship is at the discretion of the Director of Financial Assistance and is dependent upon the availability of institutional funds.

Departmental Scholarship: Students majoring in environmental science, business, aviation, or equestrian disciplines are eligible to apply for departmental scholarships. Awards are made by the Director of Financial Assistance with the recommendation of the activity director. The amount of each scholarship is determined by an audition or interview and by the amount of institutional assistance for which the student is eligible. Entering students should contact the office of admissions to set up an interview or audition with the program director.

Other Grant and Scholarship Opportunities

Church Matching Fund Scholarship: This is an opportunity for churches to provide scholarship funds for student members. The College may match an amount up to $500 per academic year. Because this grant is part of the student’s overall institutional award, the student’s church must notify the financial aid office in writing of its intentions by June 1st of the award year in order for the scholarship to be considered. The church’s portion of the award is over and above the institutional assistance awarded to the student.

RMCC Alumni Scholarship: Any student whose parent or grandparent graduated from RMC may be eligible for $1,000 per academic year. The student must notify the financial aid office that he or she is applying for the Alumni Scholarship by June 1st of the award year for the grant to be considered.

Family Grants: If two or more students from the same family attend Rocky Mountain College during the same academic year, each will receive a $1,000 family grant.
Annually Funded and Endowed Scholarships:
Rocky Mountain College funds students through the generosity of many donors. Students will be considered for these scholarships based on the information provided on their admissions application.

Eligibility
Rocky Mountain College students obtaining their first baccalaureate degree who are in good academic standing and enrolled full-time are eligible for institutionally funded financial assistance for up to four years unless they are enrolled in a five-year program. Students enrolled in the degree completion program are not eligible for institutionally funded financial assistance. Contact the financial assistance office personnel for complete policies and procedures regarding financial assistance.

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 Director of Financial Assistance. Many of our students have received help from such organizations as the Veterans Administration, Indian Health Service, Social Security Administration, fraternal organizations, service clubs, and local and national churches.

Loans
The Federal Perkins Loan Program is awarded to students who have a high unmet need after all grant aid is awarded. Because this is a federal program, the student must complete the Free Application for Federal Student Aid (FAFSA). This loan is granted to the student by Rocky Mountain College. A student accepting a Federal Perkins Loan will sign a promissory note before classes start. Loan funds are limited so the Federal Perkins Loan is awarded to students on a first-come, first-served basis. 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. Cancellation provisions exist for students performing certain types of volunteer work, teaching, military service, or law enforcement.

The Federal Family Education Loan (FFEL) Program provides low-interest loans to students in order to pay for their educational expenses. Loan funds are available from banks, credit unions, and fraternal loan agencies. The interest rate for all loans borrowed after July 1, 1993 is variable with a cap of 8.25%. Loan borrowers must be aware they may be paying different interest rates on loans when they go into repayment. The interest rate is stated on the master promissory note. The Federal Family Education Loan Program offers both subsidized and unsubsidized Stafford loans. Students must complete a Free Application for Federal Student Aid (FAFSA) in order to determine the type of student loan for which the student qualifies.

A Subsidized Stafford student loan is need-based. Interest on loans borrowed is paid by taxpayers, and the principal payment is deferred while the student is attending college at least half time.

An Unsubsidized Stafford student loan is not based on need. Interest accrues to the student when the loan is disbursed. The principal payment is deferred while the student is attending college at least half time. The student borrower is responsible for the interest by either paying the interest or asking the lender to capitalize the interest when the student goes into repayment. Independent students and those dependent students whose parents have been denied a parent loan may be eligible to borrow additional unsubsidized Stafford loan amounts.

Eligibility for either of the above loans is determined by the financial aid office. The type of loan for which the student is eligible will be included with the financial aid award letter with instructions regarding lenders and loan amounts requested. The student will complete a master promissory note the first time a loan is borrowed.

The Federal Parent Loan for Undergraduate Students (PLUS) is the third loan in the Federal Family Education Loan program. As the name states, the parent is the borrower. This loan is not based on need and all families are eligible to apply. The Free Application for Federal Student Aid does not need to be completed if the parent so desires. The maximum amount available is determined by subtracting total financial assistance from the cost of attendance. The interest rate is variable with a cap at 9%. Repayment begins 60 days after the loan is totally disbursed. For more information regarding this loan, please contact the financial aid office.

Work
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 available in various areas on campus with off-campus community service jobs 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.

There are two types of work study programs available. The Federal College Work Study Program is a federally funded need-based program. Students who complete a FAFSA and have need may be awarded federal work study. The Rocky Mountain College Work Study Program also offers work study to those students who do not apply for or qualify for federal assistance.

Off-campus employment is available throughout the Billings area. The career services office receives inquiries for all off-campus job opportunities. For information regarding jobs available to Rocky students, visit www.rocky.edu and click on “Career Services” under the campus quicklink.

### Tuition and Fees

The Board of Trustees of Rocky Mountain College reserves the right to change the fee schedule without prior notice. For the 2004-05 year tuition and fee schedule, see the office of the vice president for administration and finance.

#### 2003-2004 Semester Tuition and Fee Schedule

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and general fees (12-19 credits)</td>
<td>$6975.00</td>
</tr>
<tr>
<td>Tuition, part-time (per credit)</td>
<td>582.00</td>
</tr>
<tr>
<td>Tuition, summer session (per credit)</td>
<td>288.00</td>
</tr>
<tr>
<td>High school tuition (per credit)</td>
<td>127.00</td>
</tr>
<tr>
<td>Housing (including room and board)</td>
<td></td>
</tr>
<tr>
<td>Widenshouse</td>
<td></td>
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<tr>
<td>single</td>
<td>2,954.00</td>
</tr>
<tr>
<td>double</td>
<td>2,654.00</td>
</tr>
<tr>
<td>large double</td>
<td>2,814.00</td>
</tr>
<tr>
<td>triple</td>
<td>2,516.50</td>
</tr>
<tr>
<td>quad</td>
<td>2,304.00</td>
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<tr>
<td>Anderson Hall</td>
<td></td>
</tr>
<tr>
<td>single</td>
<td>2,744.00</td>
</tr>
<tr>
<td>double</td>
<td>2,206.50</td>
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<tr>
<td>triple</td>
<td>1,935.50</td>
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<tr>
<td>Jorgenson Hall</td>
<td></td>
</tr>
<tr>
<td>(refer to the housing office)</td>
<td></td>
</tr>
<tr>
<td>ASRMC student government fee</td>
<td>45.00</td>
</tr>
<tr>
<td>ASRMC publication fee (per year)</td>
<td>25.00</td>
</tr>
<tr>
<td>Academic lab fee</td>
<td>25.00</td>
</tr>
<tr>
<td>Audit fee (per course)</td>
<td>90.00</td>
</tr>
<tr>
<td>Audit fee, senior citizens age 60 or above (per course)</td>
<td>53.00</td>
</tr>
<tr>
<td>Overload fee (per credit over 19 credits)</td>
<td>582.00</td>
</tr>
<tr>
<td>CPL/challenge fee (per credit)</td>
<td>37.00</td>
</tr>
<tr>
<td>CLEP/DANTES fee (per credit)</td>
<td>37.00</td>
</tr>
<tr>
<td>DANTES test fee (per test)</td>
<td>54.00</td>
</tr>
<tr>
<td>CLEP test fee (per test)</td>
<td>63.00</td>
</tr>
<tr>
<td>Private music fee (per semester hour)</td>
<td>137.00</td>
</tr>
<tr>
<td>Student teaching fee (K-12)</td>
<td>283.00</td>
</tr>
<tr>
<td>Student teaching fee (Elementary)</td>
<td>210.00</td>
</tr>
<tr>
<td>Student teaching fee (Secondary)</td>
<td>210.00</td>
</tr>
<tr>
<td>Computer lab fee (part-time students)</td>
<td>10.00</td>
</tr>
<tr>
<td>P.E. activities fee (refer to course schedule)</td>
<td></td>
</tr>
<tr>
<td>Equestrian boarding fee (see section following)</td>
<td>2,040.00</td>
</tr>
<tr>
<td>Equestrian deposit (per semester)</td>
<td>300.00</td>
</tr>
<tr>
<td>Equestrian deposit (new students)</td>
<td>500.00</td>
</tr>
<tr>
<td>Equestrian vet deposit (per semester)</td>
<td>250.00</td>
</tr>
<tr>
<td>Aviation lab deposits:</td>
<td></td>
</tr>
<tr>
<td>Flight orientation</td>
<td>800.00</td>
</tr>
<tr>
<td>Private pilot I</td>
<td>3,900.00</td>
</tr>
<tr>
<td>Private pilot II</td>
<td>2,700.00</td>
</tr>
<tr>
<td>Professional pilot - Instrument I</td>
<td>3,400.00</td>
</tr>
<tr>
<td>Professional pilot - Instrument II</td>
<td>2,700.00</td>
</tr>
<tr>
<td>Professional pilot - Commercial I</td>
<td>6,000.00</td>
</tr>
<tr>
<td>Professional pilot - Commercial II</td>
<td>3,600.00</td>
</tr>
<tr>
<td>Professional pilot - Commercial III</td>
<td>6,000.00</td>
</tr>
<tr>
<td>Certified flight instructor</td>
<td>4,100.00</td>
</tr>
<tr>
<td>Instrument flight instructor</td>
<td>5,200.00</td>
</tr>
<tr>
<td>Multi-engine flight instructor</td>
<td>5,200.00</td>
</tr>
<tr>
<td>Multi-engine rating</td>
<td>5,500.00</td>
</tr>
<tr>
<td>Crew resource management</td>
<td>400.00</td>
</tr>
<tr>
<td>Application fee (non-refundable)</td>
<td>25.00</td>
</tr>
<tr>
<td>Physician Assistant program Application fee (non-refundable to CASPA)</td>
<td>25.00</td>
</tr>
<tr>
<td>Late graduation fee</td>
<td>25.00</td>
</tr>
<tr>
<td>Transcript rush fee</td>
<td>15.00</td>
</tr>
<tr>
<td>Late registration/validation fee</td>
<td>100.00</td>
</tr>
<tr>
<td>Insurance for athletics (per year)</td>
<td>100.00</td>
</tr>
</tbody>
</table>
### Degree Completion Tuition and Fees

The tuition and fees for the degree completion program have been established at the following levels:

<table>
<thead>
<tr>
<th>Tuition and fees</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition (per semester)</td>
<td>$4,615.00</td>
</tr>
<tr>
<td>Enrollment deposit (non-refundable)</td>
<td>100.00</td>
</tr>
<tr>
<td>Application fee</td>
<td>25.00</td>
</tr>
<tr>
<td>Academic lab fee</td>
<td>25.00</td>
</tr>
<tr>
<td>Materials fee</td>
<td>25.00</td>
</tr>
<tr>
<td>CPL/challenge fee (per credit)</td>
<td>37.00</td>
</tr>
<tr>
<td>CLEP/DANTES fee (per credit)</td>
<td>37.00</td>
</tr>
<tr>
<td>CLEP testing fee (per test)</td>
<td>63.00</td>
</tr>
<tr>
<td>DANTES testing fee (per test)</td>
<td>54.00</td>
</tr>
<tr>
<td>Late graduation fee</td>
<td>25.00</td>
</tr>
<tr>
<td>Withdrawal fee</td>
<td>100.00</td>
</tr>
<tr>
<td>Reinstatement fee</td>
<td>50.00</td>
</tr>
</tbody>
</table>

Degree completion students can elect to pay the semester’s tuition and fees at registration or spread tuition payments over time according to the following schedule: at registration, 100% of all fees and 25% of tuition; 10th of each month, 25% of tuition, subject to 1% finance charge per month.

### Physician Assistant Program Tuition and Fees

RMC’s regular fees apply to students in the physician assistant program except as noted below:

<table>
<thead>
<tr>
<th>Tuition and fees</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application fee (non-refundable, to CASPA)</td>
<td>25.00</td>
</tr>
<tr>
<td>Fall tuition and fees (12-19 credits)</td>
<td>7,070.00</td>
</tr>
<tr>
<td>Spring tuition and fees (12-19 credits)</td>
<td>7,045.00</td>
</tr>
<tr>
<td>Summer tuition and fees (12-19 credits)</td>
<td>6,978.00</td>
</tr>
<tr>
<td>PA Masters assessment fee (per semester)</td>
<td>500.00</td>
</tr>
<tr>
<td>Overload fee (per credit over 19 credits)</td>
<td>582.00</td>
</tr>
<tr>
<td>Enrollment deposit (applied to tuition, non-refundable)</td>
<td>400.00</td>
</tr>
</tbody>
</table>

### Validation and Payment Terms

Validation is the process of paying tuition and fees and confirming enrollment at Rocky Mountain College. Validation occurs in the business office at the beginning of each semester. **ALL** students must validate regardless if all fees are paid by financial aid or scholarships. A late validation fee of $100 is accessed to students not validated by the end of the first day of classes. Tuition, fees, and room and board
charges are due in full at the beginning of each semester, on or before the first day of classes. A student may attend classes only if he or she is validated.

The college offers two payment methods:
1. **Full Payment** at time of validation.
2. **Budget Payment Plan** divides the semester’s tuition, fees, and room and board charges into four payments. The first payment is due in full at the time of validation. Subsequent monthly payments of the principal plus a 1% finance charge are due by the 10th of each month. Failure to make monthly payments may result in declaring all remaining installments due and payable. If the student withdraws from school and the budget payment plan contract is not paid in full, any refund due the student is applied first to the unpaid balance of the 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 RMC which 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.

Validation or the privilege of attending classes may be denied for failure to pay account balances or failure to make payments in accordance with the budget payment plan contract. A hold is placed on a student’s transcripts with account balances due 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 collection and court costs subsequently associated with collection of the debt.

**Withdrawal Policy**

Students contemplating withdrawing from the College must meet with the Vice President of Student Services (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. The office of the vice president of student services is located in the Bair Family Student Center. Office hours are 8:00 am to 5:00 pm Monday through Friday.

Because Rocky Mountain College is not required to take daily attendance, the official withdrawal date will be the date the student notifies the designated official 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 on that date. An academically related activity includes, but is not limited to, 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.

**Return of Title IV Funds - Return of Institutional Funds**

When a student withdraws before 60% of the semester elapses, the College must return to the Department of Education any unearned federal financial aid funds up to the unearned percentage of institutional charges for the portion of the period the student did not complete. Federal dollars which need to be returned will be applied in the following order: unsubsidized federal Stafford loan, subsidized federal Stafford loan, federal Perkins loan, federal Plus loan, federal Pell grant, federal Supplemental Education Opportunity Grant, and Leveraging Educational Assistance Partnership program. The calculation of the return of these funds may result in the student owing a balance to either the College and/or the federal government.

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. The student will not be able to validate his or her enrollment, attend future
classes, or obtain transcripts or diplomas, until the balance is either paid in full or satisfactory payment arrangements have been made. If the student owes an overpayment 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). The student will not be eligible for future federal financial aid funds until payment arrangements have been set up with the Department of Education or until the overpayment has been paid in full.

The withdrawal calculation for those students receiving institutional assistance or those receiving no assistance, who withdraw from the College before they have completed 60% of the term, will be evaluated in the same manner as a student receiving federal financial aid.

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 reduction has been ordered by the Academic Vice President.

Campus Life

Brad Nason, Vice President of Student Services

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 appreciation through attendance of concerts and productions. The Alberta Bair Theater regularly presents nationally touring musicals and performances of classical and contemporary music. The galleries at the Yellowstone Art Center and Western Heritage Center are open to students and will provide the basis for an exploration and appreciation of Western art. The Audubon lecture series, special programs at other educational institutions, and the presentations of civic-minded groups are among the finest in Montana.

Cultural Series

The cultural series events held on campus implement 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, convocations, 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.

Student Activities

Theatre: Students perform two mainstage shows per year, 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.

The College Choir: The college 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 College Band: The college band is a combination of both a 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 College Jazz Ensemble: The jazz ensemble performs 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 regularly formed during the year to supplement the program.
Student Government: The Associated Students of Rocky Mountain College (ASRMC) consists of all students who register for 6 or more credit hours and such others as choose to pay the membership fee. ASRMC operates under a constitution available on the website at www.rocky.edu/campus/trailguide or from the office of the vice president of student services. The ASRMC governing council is the executive board of the associated students, duly elected and appointed in accordance with the 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.

Publications: A campus directory, which provides addresses and telephone numbers of persons in the Rocky community, is published in the fall by the ASRMC and Student Alumni Association. The college newspaper, the Top of the Rock, is printed monthly and staff membership is open to all interested students. Soliloquy, a collection of students’ poetry, stories, and artwork, is published each spring. All students are invited to submit their work. A yearbook is published each spring by interested student staff membership (open to all).

Clubs and Organizations

Nontraditional Students: Formed to recognize the ever increasing non-traditional student population at Rocky Mountain College, this club was chartered in 1996 to provide them with experience and support. The organization promotes the qualities of excellence, moral values, responsibility, and accountability on campus through the establishment of scholarships, fundraisers, and social events.

Alpha Chapter, Pi Kappa Delta-National Honorary Forensics Fraternity: Rocky Mountain College’s chapter, established in 1920, was the first Montana chapter.

Alpha Eta Rho National Aviation Fraternity: The fraternity provides students majoring in aviation an opportunity to become more knowledgeable about careers in aviation by sponsoring activities include sponsoring activities and programs of interest to the aviation student. Scholarships are available to members.

Ambassador’s Club: The members of the Ambassador’s Club assist the admissions office and represent the College to prospective students and their families.

American Indian Science and Engineering Society (AISES): AISES is a private, nonprofit organization that nurtures the building of community by bridging science and technology with traditional native values. The society helps American Indian students with the academic, financial, and social challenges of college life.

Art Club: The art club allows members to express themselves through the visual arts and projects, art exhibits, lectures, and demonstrations. The club also encourages input from those interested in art, regardless of ability, and serves as a community service organization. This organization strives to provide a sense of community and identity, to increase the likelihood of student art exhibitions, and to provide a more stable environment in which its members can learn more from each other about what it means to be an artist in the modern world.

BACCHUS: BACCHUS focuses on alcohol abuse prevention and other student health and safety issues. Through education and activities designed to increase awareness of changing student health and safety issues, BACCHUS focuses on the development and promotion of positive lifestyles and decision-making skills.

Business Club: The business club seeks to foster a better relationship between students and the Billings community by inviting business speakers to campus and encouraging students to help with civic projects and other clubs. Students become aware of opportunities and careers available in business and related areas.

Equestrian Club: This club enables members to become better horse people through events, live competition, horse shows, and money-making activities to promote equestrian studies.

Health Occupations Group: This organization was chartered in 1996 in recognition of the many health occupations students who study on the RMC campus. This club gives its members a chance to learn about and interact with different aspects of the health professions through field trips and hosting guest speakers. Members are also active in the general education of the public and the RMC community about health-related issues and occupations.
American Indian Cultural Association (AICA): AICA provides a social outlet to ease the transition into both the academic and social aspects of the College experience. The club strives for unity of purpose in promoting and preserving American Indian values, beliefs, and traditions.

InterVarsity Christian Fellowship: The mission of this organization is to build a collegiate fellowship that will engage the campus in its ethnic diversity with the gospel of Jesus Christ and develop disciples who embody Biblical values.

Latter-Day Saint Student Association (LDSSA): The goal of this club is to help all Latter-Day Saint college students stay closely affiliated with the church, succeed in their studies, and achieve a balanced life while on campus. LDSSA provides Latter-Day Saint students with meaningful activities which are consistent with church standards.

Music Club: Music club members receive an opportunity for professional development, learn about the privileges and responsibilities of the music education profession, and become acquainted with leaders in music education.

Newman Club: The Newman Club affords Catholic students an opportunity to get together for prayer and discussion. Mass and dinner is held once a month, usually at a faculty home. The club encourages students to become involved in community and church activities.

Precision Flying Team: The purpose of the RMC precision flying team is to allow students in the aviation program an opportunity to enhance their aviation education by competing in the national intercollegiate flying association regional and national conferences.

Residence Hall Association (RHA): RHA serves to encourage Rocky’s residents to voice concerns, suggestions, and feedback; get involved in decision making, governing themselves, and creating policies and programs to educate themselves about current issues; and help create a learning community within the residence halls.

Ski Club: The ski club provides a basis for students with similar ski interests to meet socially. It also teaches non-skiing students how to ski downhill and cross-country each academic year. The ski club familiarizes students with the role of skiing in tourism and recreation in Montana and the Northwest.

Sojourner Club: The Sojourner Club promotes intercultural understanding within the college and in the community. The club, comprised of international students, sponsors various activities and events on campus that relate to international and intercultural issues.

Student Theater Association of Rocky (STARs): STARs provides additional opportunities beyond the main stage shows to students interested in theater. In addition, it sponsors various events such as sack lunch theater, haunted house, and improv night. STARs provides sound and entertainment for many campus events.

Student Alumni Association: The mission of SAA is to nourish the relationship between current and future alumni through establishing contact to provide networking opportunities and utilize alumni as on- and off-campus resources. The SAA also produces the College directory.

Students in Free Enterprise (SIFE): SIFE provides RMC students the opportunity to develop leadership, teamwork, and communication skills through learning, practicing, and teaching the principles of free enterprise. Members may attend a regional college competition and career fair to demonstrate their abilities.

If students are interested in becoming involved in any of these clubs or activities or want more information, contact Brad Nason, Dean of Students, or the ASRMC office.

Chaplaincy Program
The chaplaincy program is committed to the concept that faith development and academic achievement go hand-in-hand. To that end, the chaplain—along with students, faculty, and staff—provides opportunities for people to study and grow. Throughout the college, and especially through the chaplaincy program, Christian spirit and 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.

Through the chaplain’s office, opportunities are offered for worship, study and discussion groups, personal counseling, retreats, lectures, community and international service, and more. Participation and leadership in all activities is open to everyone. The chaplaincy program 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 a small liberal arts institution, Rocky 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, and special counseling services through the vice president of student services office and Services for Academic Success. Residence hall staff provide support in educational, vocational, social, and personal matters.

**American Indian Student Services:** American Indian Student Services was created to address the needs of American Indian students. The office provides a special place for students to socialize, network, and receive one-on-one help for any problems or difficulties they may encounter. The program maintains ongoing contact with tribal higher education programs to help build a resource base and expand the American Indian student population at Rocky.

**Counseling Services:** Rocky Mountain College counseling services are available to all full-time and part-time students. The counseling center provides support for students experiencing difficulties with personal, social, or adjustment issues. The campus counselors also sponsor special events and programming within the College community and provide referral to community resources.

**Career Services:** The career services office provides assistance to students in career awareness and decision-making, career-educational planning, and job search techniques. In addition, the career services office maintains a current list of part-time jobs available to Rocky Mountain College students within the Billings community, as well as summer jobs throughout the state and nation. This information is accessible at [www.rocky.edu/campus/placement](http://www.rocky.edu/campus/placement).

Students are required to complete a three-credit (minimum) experiential learning component for graduation. Experiential learning includes internships and study abroad. Several majors require internships for the major which would fulfill this requirement. Credits to fulfill the experiential learning requirement will usually only be granted to students with junior or senior class standing and must be related to the student’s major or minor.

Internships, a part of 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 and minor fields. The placement service also assists senior students in establishing credentials, developing resume-writing and interviewing skills, and making contact with employers. An internship usually lasts a full semester (3.5 months), depending on the position. For every 45 hours of time in the internship, one semester hour will be 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 will be required by faculty to complete an assignment that coincides with the internship experience, as well as attend an internship orientation held by career services.
- Students may register for up to 15 credit hours (upper division) of internship credit with the approval of a faculty member.
- **Students must be registered for an internship by the first day of classes of the semester in which they will be interning.**

The following is a guide for students to use to plan for the internship experience:
- **Fall:** meet with career services by March 15
- **Spring/Summer:** meet with career services by October 15
- There are wonderful opportunities outside of Montana that a student needs to plan for at least 9 months ahead of time. It is the responsibility of the student to arrange for housing and transportation.

**Disability Services:** Rocky Mountain College is committed to assuring an equal educational opportunity for students with disabilities. The office of the dean of students provides generic 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 appropriate documentation, and requesting reasonable accommodations.

**International Student and Scholar Services:**
The office of international programs provides comprehensive services for foreign students and scholars, including pre-departure information, orientation programs upon arrival, a resource
handbook, initial academic advising, and assistance with employment and internships. The office also provides events and activities through which the culture of Montana can be explored.

**Student Health Service:** The College maintains a health service 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 primary treatment of injuries are available to all students at no charge. Prior to enrollment, every student must submit a completed medical history form and provide documentation of two MMR inoculations.

The cost of illness and injury requiring hospitalization or other referrals must be assumed by the student. The College is not responsible in the case of accidents incurred by students in pursuance of their work, field trips, athletics, or 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. 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 sent.

**Services for Academic Success:** 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 learning disabilities. SAS also offers developmental course work 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) 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.

**Students with Learning Disabilities**
Services for Academic Success offers a comprehensive program of individualized services to accommodate the needs of students with learning disabilities. Typical services may include alternative testing arrangements; taping of lectures; providing tutors, readers, or note takers for various classes; and advocacy.

**Accessing Services:** To access services, students must refer themselves to SAS, submit documentation to verify eligibility, and request reasonable accommodations, academic adjustments or support services. Students are strongly advised to contact SAS as soon as they decide to attend RMC so that they can submit the required documentation in a timely fashion. Guidelines for required documentation are available from SAS.

**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 more information regarding SAS, please call (406) 657-1070 or visit on the website www.rocky.edu/campus/sas or email:vandykj@rocky.edu

**Housing and 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 in the Anderson-Widenhouse residence hall complex. This requirement is based upon long-term research that indicates greater success among on-campus students. Exceptions to this policy include students living in the Billings area with parents,
married students, or students 21 years of age or older on the first day of fall semester classes.

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. See “The Campus” in the “General Information” section for residence hall descriptions.

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 and without regard to race, creed or national origin. 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. The student furnishes blankets, sheets, pillows, pillow cases, towels, rugs, and other personal items. Widenhouse Hall rooms are also furnished with microwaves and refrigerators. Laundry facilities are available in each of the residence halls free of charge.

Apartments
The Jorgenson Hall apartments are an available alternative to those students otherwise eligible to live off campus. Jorgenson Hall apartments are unfurnished and are typically 728 square feet, including a living room, full kitchen, bathroom, bedroom, and study. Units are leased to an individual student, who in turn may share the costs with a roommate or live with his or her family. Leases are available through December 31, or June 30 of any year. Prices and applications are available at the office of housing and residence life.

Food Service
Several options are available for all members of the Rocky Mountain College community. The McDonald Commons is open from 6:30 am through 10:00 pm Monday through Thursday; 6:30 am through 7:00 pm Friday, and 9:00 am to 12:30 pm and 5:00 pm to 6:00 pm 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 whenever it is open. The 10 meal plan allows the user any ten visits to the Commons each week. The 5 meal plan allows the user five visits per week. Anderson and Widenhouse residents are required to purchase either the carte blanche or the 10 meal plan to encourage healthy eating habits. These meal 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 Marriott Grille. “Munch money” can be purchased directly through the food service office.

Intramural and Outdoor Recreation Programs
Rocky’s intramural and outdoor recreation programs are in place to provide students with experiences which will assist them in achieving a well-rounded balance between the physical and mental needs of every human being throughout 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 is divided into six function areas which include 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, climbing in the Beartooth Mountains, and windsurfing workshops.

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:** Rocky Mountain College is a member of the National Association of Intercollegiate Athletics and the Frontier Conference. RMC’s 180 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, and women’s soccer. All student athletes are required to purchase insurance (see “Tuition and Fees” under “Financial Assistance” section). A primary goal of intercollegiate sports at Rocky is to recruit students who are successes on the athletic field and in the classroom, carrying on the RMC tradition of the scholar-athlete.

**General Policies**

**Immunization Policy:** All 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 and rubella immunizations for all students unless born before Jan. 1, 1957. The immunization section of the health service form must be completed by the prospective student prior to enrollment at Rocky Mountain College. If adequate documentation is not available, immunization must be performed at the Rocky Mountain College health service upon arrival (see “Admissions” section).

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

1. providing students the most current information available regarding alcohol and alcohol use;
2. developing and implementing alcohol-free social programming; and
3. encouraging and supporting those students who choose to abstain from use.

Alcohol is not permitted in College residence halls. Further, the use or possession of illegal drugs and conduct deemed unlawful by the state or federal government is, of course, prohibited on campus.

**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 Personnel 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.

**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.

**Pets:** Students may not bring or keep pets on campus.

**Student Right to Know Act and Campus Information:** In accordance with the Campus Security Act of 1990, Rocky Mountain College collects, publishes, and disseminates statistics about crimes occurring on campus. This information may be obtained from the vice president of student services office or the office of admissions.

**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 the registrar by the last day to add a class each semester. Directory information includes name of student, local address, local phone, RMC 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 this information not be released by the College. Any student wishing to withhold directory information must inform the office of the registrar 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
will preclude release of verifications of enrollment or graduation. More information about this policy is available from the office of the registrar.

Please notify the office of the registrar of any change of name, address, and/or phone number either in person or via CampusWEB.

**Student Records:** Official academic records of students are kept only in the office of the registrar. 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, the Registrar, 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 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 CampusWEB approximately one week after the end of each term. Students may request that grades be mailed to an address of their choice by notifying the office of the registrar before the beginning of finals week.

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.

**Judicial Council**

This council is comprised of four students appointed by ASRMC and four faculty members appointed by their colleagues. The council adjudicates matters of academic and due process on campus. The council or a subcommittee of the council may also act to assign consequences in cases where regulations of the College have been violated.

In the event that a violation of any campus regulation occurs, students are guaranteed their right to due process and appeal as discussed in the student handbook, the Trail Guide. Students are reminded that the act of enrollment is interpreted as a contractual agreement to accept and abide by the regulations and disciplinary structures of the College.

**Academic**

*Susan McDaniel, Provost/Academic Vice President*

**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 and the master in physician assistant studies.

**The Semester Plan**

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

**Course Hours**

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, two hours of attendance are required weekly for one semester-hour 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. For regularly
enrolled students, the usual class load is 15 to 16 semester hours per semester.

Levels of Courses
It is recommended that students take courses at the level of their class standing, 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 or upper-division. 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 courses in the physician assistant program and are open only to students who have been admitted into the program. A minimum of 40 (20 for transfer students) semester hours must be completed in upper-division courses, at least twelve of which must be in the student’s major field.

Cancellation of Courses
The College reserves the right to cancel any course which does not have an enrollment of at least six at the end of the fifth class of any semester or any course which does not have an enrollment of at least four at the end of the first class of any summer session.

Regular Courses
To facilitate arrangements for instruction, the College faculty and course offerings are organized into programs. 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 term courses are scheduled to be offered as noted by fall semester, spring semester, summer semester, alternate years, or on demand. The course schedule is subject to change. Corrections are available on CampusWEB or in the office of the registrar. Courses for which there is small demand are 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 schedule carefully with their advisor to take required courses when they are offered.

Special Courses
Special Topics 180, 280, 380, 480: 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.

Independent Study 299: Offered to freshmen or sophomores only by initiation of a faculty member and approval of the Council of Chairs. Its purpose is to allow work outside of the regularly offered course schedule in exceptional circumstances. Each independent study is 1 to 3 semester hours.

Field Practicum 291, 391: Field practicum may be offered by all programs for 1 to 3 semester hours with the possibility of being repeated up to a total of 12 semester hours (athletic training majors may take up to 16 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.

Internship 450: An internship experience offers a learning experience in a workplace setting for juniors and seniors in any major and with a cumulative GPA of 2.0. These work experiences are considered a regular part of the degree program, just as any of the College’s academic offerings. Internships are arranged between a faculty member and the student with assistance from the career services office. Up to 15 semester hours may be earned in internships. A contract is required prior to registration.

Directed Reading 399: Directed reading courses are authorized for each program, to be offered at the discretion of the instructor and subject to the approval of the Academic Vice President. Each professor offering directed reading is responsible for providing a reading list or series of study questions, or a syllabus to the student, so that the course is indeed directed reading, not just reading. 1 to 3 semester hours.

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 given below, however, must be followed when regular courses are taken by arrangements.
Seminar 490: Seminar is an interdisciplinary course carrying 2 to 3 semester hours of upper-division credit. Admission is restricted to juniors and seniors.

Independent Study 499: Independent study is offered by those programs which offer majors. Its purpose is to allow a superior student to devise and pursue independent study in an area agreed upon in consultation with the 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, and 3) carry a GPA of a 3.00 or better. Each independent study is 1 to 3 semester hours.

Continuing Education 900: These courses are designed primarily for the post-baccalaureate student and do not apply toward a bachelor’s degree. Elementary and secondary school teachers may use these courses for professional advancement, recertification, and/or a salary increment with school district approval. Permanent records are kept.

Guidelines: The following guidelines are used for all special courses:

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, as the catalog points out, only under unusual circumstances and with the instructor’s consent. See “Grades” later in this section.

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 will not be accepted in transfer and may apply to no more than 25 percent of a degree program. Nontraditional credit will be posted on the transcript after successful completion of one semester of full-time enrollment. In the case of CLEP, DANTES, AP, IB, or military credit, official score reports must be submitted for credit to be granted. More details are available from the office of the registrar.

Credit for prior learning: Students may earn credit for documented and currently held learning gained through life experience and its equivalency to the content of courses in the academic curriculum. To request credit for prior learning, a student is required to submit an application and prepare a portfolio to document the learning involved. Students must distinguish between learning and experience and articulate knowledge and its application, and must establish connections between theory and practice in their field. More information is available through the career services or the degree completion program office.

Challenge of a course: Students may challenge courses not previously taken if they have a GPA of at least 3.00. The approval of the instructor, the advisor, and the Academic Vice President must be obtained and the agreement form filed with the office of the registrar.

College-Level Examination Program: Students who wish to earn college credit may do so by successfully completing one or more of the general examinations or the subject examination 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 RMC. More information is available through the degree completion program office.

Credit for military experience and training: Credit will be evaluated based on the American Council of Education recommendations for credit for military experience. The office of the registrar will evaluate this credit after the student enrolls.

Credit for advanced learning in high school: College credit is awarded for advanced work in secondary school. Credit is accepted through the Advanced Placement test of the College Entrance Examination Board, International Baccalaureate Diplomas, or tech-prep agreements with local high schools. Students should consult with the office of the registrar concerning credits accepted and level of performance required.
International Learning Experiences

Rocky International: 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. Rocky faculty lead several short-term programs. Most Rocky international programs cost about the same as a semester on campus. In addition, federal financial aid and Rocky scholarships can be used in these programs. With good planning, an international experience will not delay graduation. Programs vary in length, from year-long programs to four-week intensive summer programs. Some programs are thematic in nature, focusing on development issues, business, or environmental concerns; some provide language and cultural studies; and through others, students may continue their Rocky liberal arts education, but in a different country and culture. The office of international programs also assists students to find internships, work, or volunteer opportunities abroad.

Rocky offers occasional courses during a semester through which students study on campus for the majority of the semester, then travel abroad to culminate the experience. These courses include the Mission to Merida, Mexico, and the Music and Art of Austria and Bavaria.

Rocky International Exchange Programs
Queen’s University of Belfast, Northern Ireland
University of Ulster, Northern Ireland
Shikoku Gakuin University, Japan
Háme Polytechnic University, Finland
University of Gävle, Sweden

Rocky International Affiliated Programs for Study Abroad
Archeological Dig in Bethsaida, Israel (Summer only)
Harlaxton College, England
Regent’s College, London, England
Oxford Overseas Study Course, Oxford, England
Payap University, Thailand
Institute For Study Abroad, Butler University in the United Kingdom, Ireland, Australia and New Zealand

Through the College Consortium for International Studies, affiliated programs are available in more than 30 countries.

The Curriculum
Bachelor of Arts, Bachelor of Science Programs
Students may earn a bachelor’s degree in the following programs. Some majors have several options; see the department description for details.

Bachelor of Arts:
- Art
- Education
- English
- Environmental Studies
- History
- Individualized Program of Study
- Music
- Philosophy and Religious Thought
- Professional Communication
- Theatre Arts

Bachelor of Science:
- Aviation
- Biology
- Business Administration and Economics
- Chemistry
- Computer Science and Information Technology
- Earth and Environmental Science
- Equestrian Studies
- History and Political Science
- Individualized Program of Study
- Management (degree completion)
- Mathematics
- Physical Education and Health
- Physician Assistant
- Psychology
- Sociology/Anthropology

Minors
Minors are offered in all of the major programs listed above (except management and physical education and health). In addition, minors are also offered in the following programs:
- Physics
- Spanish
- Writing
Individualized Program of Study (IPS)

The individualized program of study allows students to design a program that is not regularly offered by Rocky Mountain College. Any student who has not completed the junior year is eligible to apply for IPS. The student determines, with the help of faculty advisors, a program of study tailored to meet individual needs and interests. The IPS may apply to the student’s total program, to the major, or to the minor. All other graduation requirements must be completed.

All IPS programs must be approved by the student’s academic advisor, the council of chairs, and the Academic Vice President. All proposals must be approved by the end of the student’s junior year. Applications should include the educational rationale behind the program and a list of all courses to be applied toward the program. 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 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 regularly enrolled at Rocky Mountain College and available for regular on-campus contact with the major advisor.

Occupational Therapy

The program’s objective is to prepare the student as a professional capable of designing and implementing rehabilitation programs to help the physically challenged in skills necessary for daily life: mobility, personal hygiene, and body conditioning.

Rocky’s pre-occupational therapy course work is designed to complement the 3-2 program at Washington University (St. Louis). Students spend an average of three years at Rocky satisfying specific prerequisite courses and partially fulfilling a major. Students must maintain a 3.0 GPA, obtain a faculty recommendation, and take the GRE to apply for acceptance into the entry level master’s program at Washington University. Those who complete the prerequisites at RMC are not guaranteed a position in the Washington University program; they must apply and be accepted. Students need to recognize that this major requires successful completion of two semesters of class work at Washington University before a bachelor’s degree is granted by Rocky Mountain College.

Basically, the prerequisites are (in semester hours) English composition, 3; biology, 3; anatomy and physiology, 6; physics, 3; child development and/or psychology, 3; abnormal psychology, 3; sociology and anthropology, 3; political science and economics, 3; basic statistics, 3; electives, 59.

Teaching Licensure

For information about teaching licensure, refer to the “Education” section in the “Departments and Courses” area of the catalog.

Requirements for a Baccalaureate Degree

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 arts, or eight credits in physical education activity courses may be counted toward graduation. Unless being counted toward the major, no more than 12 of these activity credits can count toward the total credit requirement.

The general education requirements listed below must be met.

A candidate must have a cumulative grade point average (GPA) of 2.00 (“C”) for all courses applying to the degree, and a cumulative GPA of 2.00 in all courses taken at Rocky Mountain College.

A minimum of 24 semester hours is required in the major field with a GPA of 2.25 (“C+”). The specific requirements for a particular major are listed under the program concerned. The student must complete at least three courses in the major field at Rocky Mountain College.

Forty semester hours must be earned in upper-division courses. At least 12 of the 40 semester hours must be 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 at Rocky Mountain College must have completed at this College a minimum of 30 semester hours, including at
least 20 upper-division hours. Twenty-four of the last 30 hours required for graduation must be earned in residence. This requirement may be modified in exceptional cases upon petition to the Academic Vice President.

Requirements for an Associate of Arts Degree
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; and a candidate must have a cumulative GPA of 2.00 (“C”) for all courses applying to the degree.

Requirements for a Master in Physician Assistant Studies Degree
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 2.80 or above.

Categories of General Education Requirements
In 2003, the College reviewed its general education requirements and modified them to better define its goals for graduates, concentrating on student experiences and needs. These requirements fall into three broad categories: skills and literacy, distribution, and traditions and values.

Skills and Literacy: The first section, skills and literacy, is designed to ensure that all Rocky graduates possess basic skills and also to make clear that these skills will be addressed throughout the entire curriculum. These skills require continual attention as an individual pursues a major and a career.

To illustrate, RMC addresses the skill of writing with two courses, First Year Writing and Critical Reading and Evaluative Writing. In addition, throughout their upper-division courses and those in the major, students will be required to do a substantial amount of writing. These courses need not be English courses; more often they will be courses in the student’s major. The College’s expectation is that students will continue to consider the process of writing and improving their writing skills whether they are first-year students or graduating seniors.

This same principle applies to the mathematics and speaking requirements. First, the student will take one public speaking and two mathematics courses; later the student will use speaking and mathematics skills in upper-division courses, usually in the major. The College recognizes that mathematical applications and speaking skills are important enough to be considered in several courses; in addition, they are essential for the quality expected of a Rocky Mountain College graduate. Upper-division courses and those in the major are designed to incorporate these principles and skills to provide the graduate with a thorough grounding in them.

Distribution: The second area, distribution, is designed to ensure that students are broadly educated, reflecting RMC’s liberal arts character. In order to reach the breadth of vision which the College expects, the students must take courses from these areas: the fine arts, the humanities, the social sciences, and the natural sciences.

Traditions and Values: The third area, traditions and values, is designed to enhance the student’s College experience. One course must be taken which explores religious thought. Students must also participate in either an internship or in a study abroad program. The experiential learning aspect is meant to give the student a means to apply what has been learned to real life situations and can easily complement a student’s major or minor area of study. The College expects that through these requirements, students will be able to understand the nature of spiritual investigation and belief and the interrelated nature of human knowledge.

General Education Requirements
Skills and Literacy
Writing: ENG119 and ENG219 (6 semester hours).
Mathematics: Two courses (6 semester hours). PHR205 may be used as one of these courses.
Speaking: COM102 or an approved acting course (3 semester hours) such as THR132.
Health: PEH115 and one physical activity course, either PEH101 or PEH102 (2 semester hours).
NOTE: Students may test out of PEH115.
Distribution

**Fine Arts**: Two courses from art, theatre, or music, with no two from the same program.

**Humanities**: Two courses from history, literature, or philosophy (6 semester hours), with no two from the same program; or two courses in the same foreign language.

**Social Sciences**: Two courses from economics, political science, psychology, or sociology/anthropology, with no two from the same program.

**Natural Sciences**: Two courses from biology, chemistry, environmental science, geology, or physics (at least one course must be a laboratory course), with no two from the same program (unless they are both lab courses).

**Traditions and Values**

**Religious Thought**: One course in religious thought (3 semester hours).

**Experiential Learning**: Internship or study abroad experience (3 semester hours minimum).

**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 RMC 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 RMC to attain a second degree. These students must meet all degree requirements outlined for transfer students to RMC. All students wanting to obtain a second degree must file a written application to the office of the registrar.

**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. Late validation fees are in effect after the first day of class. After one week of classes, permission from the instructor must be obtained before entering a course. After two weeks of classes, no student will be allowed to register in regular classes.

**Classification of Students**

Students are classified at the beginning of each semester in each academic year. (See class status below.)

**Official 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 12-19 credit range.

**Registration Status**

**Full-time**: A student registered for 12 hours or more.

**Part-time**: A student registered for fewer than 12 hours.

**Class Status**

**Freshman**: A student who has earned fewer than 27 hours.

**Sophomore**: A student who has earned 27 to 59 hours.

**Junior**: A student who has earned from 60 to 89 hours.

**Senior**: A student who has earned 90 or more hours.

**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 futures. 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 the registrar.

**Student 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 advisors. All other overload registrations must be approved by the advisor and the Academic Vice
President. For each semester hour over 19, a student is charged an overload fee.

NOTE: A student must average 15.5 semester hours for 8 semesters to complete the required minimum of 124 semester hours.

Part-time Enrollment
Once the student has enrolled at RMC, all course work in the major or to be applied to the degree and/or certificate must be done in residence at RMC. If the course work is to be done at another university or college, prior approval should be obtained from an appropriately designated individual. Courses submitted in transfer must have a grade of “C” or better.

Addition of a Course or Change of Section
Necessary registration changes, such as change in course or section, may be made within two weeks of the beginning of the fall or spring terms. Students may not earn credit in any course for which they are improperly registered or 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 last for half of the semester. For these classes, the student may withdraw from the course with a grade of “W” up to and including the 50% point in the class. After that day a student who withdraws from a course shall receive a grade of “F” in that course. (Students who officially withdraw from school 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 the registrar. 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 the registrar.

Withdrawal from College
Students who withdraw from the College, except for illness, must file an official withdrawal request form. Written notification must be made to the Vice President of Student Services in all cases of voluntary withdrawal. Failure to withdraw in the official manner will result in a grade of “F” for each course. (See withdrawal policies in the “Financial Assistance” section.)

Honorable Dismissal from College
Honorable dismissal of a student from Rocky Mountain College means 1) a clear conduct record, 2) permission granted to withdraw voluntarily, and 3) recommendation for favorable consideration for admission to other institutions. It does not carry any implication as to the quality of the student’s work. It is granted to any eligible student upon request.

Attendance
Students are expected to be in class regularly and promptly in order to do satisfactory work. They are responsible for all assignments, including but not limited to written lessons, quizzes, class tests, mid-term tests, final examinations, even when ill or representing Rocky Mountain College officially.

Academic Integrity
Academic integrity at Rocky Mountain College is based on a respect for individual achievement that lies at the heart of the 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 RMC 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 thus unacceptable:

1. **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 regrading; allowing another person to do one’s work and submitting that 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.

2. **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 World Wide Web, 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 Web or a “library” of already-written papers.

3. **Fabrication:** falsifying or inventing any information, data or citation; presenting data that were 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 were 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’ academic work.

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; or 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 apprized 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 the individual faculty member to the Academic Vice President or judicial council. Appeals to the AVP must be submitted in writing within 48 hours of the student being formally sanctioned. Appeals utilizing the RMC judicial process should follow the procedures outlined in the RMC Trailguide which can be found at www.rocky.edu/campus/trailguide.

**Sanctions**

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

1. issue a private reprimand;
2. issue a formal letter of reprimand;
3. reduce the student’s grade or fail him/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 standards committee for further action. The academic standards 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. expulsion from the College;
5. notation on the official record;
6. revocation of an awarded degree; or
7. 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. RMC will regularly communicate to the College community its academic standards and expectations through its institutional publications. Further, the College will encourage and promote open dialog 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.

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 this absence has beenexcused by the Academic Vice President.

Dead Week

With the exception of performance and laboratory examinations, no examinations may be scheduled during the final academic week of classes. Any exceptions must be approved by the Academic Vice President.

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 computation of the GPA. A plus (+) or minus (-) does not change the value of the grade for computation of the GPA.

Scholastic average is determined by dividing the number of earned grade points by the number of attempted credit hours. This is the GPA (grade point average), which is used in the classification of students; in determining academic probation, eligibility, and scholastic honors; and in granting of degrees.

The 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 later grade will count.

Grades

Grades in courses are recorded as follows:

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 in the office of the registrar 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.”

A grade of “F” can be made up only by repeating the course. The previous “F” is not removed from the permanent record, but is removed from the GPA calculation. Students who have an “F” in required courses should give precedence to re-taking those courses in planning subsequent schedules.

Grades not submitted to the office of the registrar by the due date will be recorded as “X.” Grades not received from faculty by 10 days after the grade due date will be recorded as “F.” Grades submitted to the office of the registrar 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.

Pass-No Pass Grading Option
Junior and senior students may elect to take one course on a pass-no pass basis each semester of their last two years in residence at Rocky Mountain College. The student must indicate (to the office of the registrar) a decision to enter a course on a pass-no pass basis within two weeks of the beginning of the semester.

Faculty will turn in letter grades to the office of the registrar. To receive a grade of “Pass” in this context, the student must achieve a grade of “C” or better. Students are warned that many graduate and professional schools equate a grade of “P” with a grade of “C” in determining admission to the school.

The following courses will be graded on a pass-no pass basis only: all aviation flight labs, COM247/347, IDS220, music recital courses (MUS020, MUS030, MUS040), varsity sports (PEH100), physical education activity courses (PEH101, PEH102), and drama activity courses (THR137, THR138). All other courses will be graded on the regular basis (“A,” “B,” “C,” “D,” “F”) unless noted. Any exceptions must be approved by the Academic Vice President in consultation with members of the council of chairs. A grade of pass/no pass is not used in computing the GPA.

Graduation with Honors
Honors at graduation are designated for bachelor of arts and bachelor of science degrees as follows: summa cum laude, GPA 3.80; magna cum laude, GPA 3.60; cum laude, GPA 3.40.

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.

Application for Graduation
All students intending to graduate during the following year must file an application for graduation by October 31. Applications received after October 31 and on or before February 15 will incur a late graduation fee. After February 15, any student filing an application for graduation will not be allowed to participate in the ceremony. Graduation ceremonies for the academic year are in May.

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 will be recognized with high honors. These students will be recognized at the fall and spring convocations.

Names of students with “I” (incomplete) grades for the semester will not be placed on these lists.

Report of Grades
Mid-semester grade reports are progress reports and thus provide students with excellent opportunities to consult with instructors about problems they may be having. Mid-semester grade reports are available on CampusWEB after mid-term break. These grades are not recorded on the permanent records. Final grades in courses are recorded on the permanent records in the office of the registrar.

Final grades will be available on CampusWEB approximately one week after the end of the term. Students may request that grades be mailed to an address of their choice by notifying the office of the registrar before the beginning of finals week. Grades will be mailed by request only.

Transcripts
Transcripts are available upon the student’s written request to the office of the registrar. No transcripts will be issued within two weeks of commencement. A transcript will not be issued unless the student is in good financial standing with the College.

Academic Standing/Probation and Suspension
Students at Rocky Mountain College are expected to make progress toward attaining their degrees. The criteria for good academic standing are as follows:

1. Students must maintain a cumulative GPA of at least 1.75 until completing 26 semester credits.
2. Students must maintain a cumulative GPA of at least 2.00 every semester thereafter (after
completing 27 semester credits). Transfer students also must maintain an overall cumulative GPA of at least 2.00, as well as a cumulative GPA of 2.00 in the credits attempted at Rocky Mountain College.

3. Any student with a semester GPA of 1.00 or lower will be placed on probation or will be suspended. Rocky Mountain College reserves the right to suspend any student whose semester GPA is 1.00 or less.

NOTE: In addition, a student must have a cumulative GPA of 2.25 in the major to graduate.

All students are reviewed by the academic standards committee at the end of each semester. Students who do not maintain good standing as defined above will be placed on academic probation or will be suspended. Students who do not make academic progress to remove probationary status after one semester will be suspended from the College. A student will be continued on probation if he or she earns at least a 2.00 GPA during the semester of probation, and the committee determines that the student is making progress toward graduation.

A student may appeal an academic suspension by indicating in writing the reasons why he or she did not make satisfactory academic progress and by submitting a plan for improvement. The appeal must be made within 15 days of notification of suspension and directed to the Academic Vice President.

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 the registrar, and consideration by the academic standards 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. Check with the financial aid office for more information.

**Academic Dismissal**

If, after re-admission to the College, a student is suspended a second time, the student is dismissed with no further opportunity to enroll at Rocky Mountain College. Suspension and dismissal are permanently recorded on the student’s transcript.
Art

Mark S. Moak, Professor
James A. Baken, Professor
Robert A. Durden, Instructor

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, we strive 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. In accordance with Rocky’s mission statement, “We challenge students to learn by rational inquiry, creative thought, and practical application to succeed in an ever-changing world.”

NOTES:

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 course work have been satisfactorily completed.
3. Internship credits may be used for no more than 3 semester hours of the required total for the major or minor. Students must complete the professional education program for secondary teaching (grades 5-12) in the “Education” section of the catalog.
4. Students wishing more depth in a studio course may take that course a second time at a higher level, with instructor’s approval.
5. 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 30 hours: ART101, ART121, ART220, ART221, ART222, ART231 or ART232, ART251 or ART252 or ART350, ART490, and two of the following: ART321, ART322, ART323. The additional 9 semester hours for the major may be elected from the remaining courses listed. A significant exhibit of work is required during the art major’s senior year.

Major in Art Education: Requirements include a minimum of 44 semester hours including the 39 hours listed under the major in art plus ART343 and ART353. Discipline-based art education, art production, art history, aesthetics, and criticism is the focus for this major. Students choosing this major are not required to have a teaching minor. Students must complete the professional education program for K-12 teaching as described in the “Education” section of the catalog.

Minor in Art: Requirements include a minimum of 29 semester hours including ART101, ART121, ART220, ART221, ART222, ART343, ART353, ART490, and 6 semester hours of electives in art.

Minor in Art Education: Requirements include a minimum of 29 semester hours including ART101, ART121, ART220, ART221, ART222, ART343, ART353, ART490, and 6 semester hours of electives in art. Though discipline-based art education is the goal, this minor gives only minimal preparation to teach both elementary and secondary levels (K-12). Students must complete the professional education program for K-12 teaching as described in the “Education” section of the catalog.

ART 101
DRAWING I
Fall Semester. 3 semester hours.
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.
ART 114
GALLERY
Fall and Spring Semesters. 1 semester hour.
This course is designed to provide the student with gallery experience. Responsibilities include preparing the gallery for all exhibits, providing and collecting entry forms, cataloging, 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.

ART 121
DESIGN
Spring Semester. 3 semester hours.
This studio course closely examines both two-dimensional 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 class academic exercises and works of art.

ART 170
HISTORY OF ARCHITECTURE
On Demand. 3 semester hours.
This is a survey of the history of architecture. The course will look at periods of architecture and how they were affected by the politics, religion, economies, and ideas of their times. Each period will culminate in a detailed analysis of a building representative of that period.

ART 176
ARCHITECTURAL GRAPHIC COMMUNICATION
On Demand. 3 semester hours.
This course surveys basic graphic principles and a variety of techniques, media, and applications (both technical and artistic) to enhance visual communication skills in portraying the real, and equally important, the imagined architectural form.

ART 214
GALLERY
Fall and Spring Semesters. 1 semester hour.
This course is designed to provide the student with gallery experience. Responsibilities include preparing the gallery for all exhibits, providing and collecting entry forms, cataloging, 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.

ART 215
CREATIVITY
Fall Semester. Alternate Years. 3 semester hours. Cross-listed as ENG215 or MUS215.
This course approaches creativity as a skill to develop, not as some magical gift bestowed on a few select people. The last three weeks of the course will be devoted to a large-scale project in the 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 date. Through the activities in this course, students will bring a higher degree of creativity to their daily lives.

ART 220
ART HISTORY SURVEY I
Fall Semester. 3 semester hours.
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 class website. Though sequential, ART220, ART221, and ART222 may be taken separately.

ART 221
ART HISTORY SURVEY II
Spring Semester. 3 semester hours.
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 rigueur as well as exploration of relevant topics on the internet and via the class website. Though sequential, ART220, ART221, and ART222 may be taken separately.
ART 222  
**ART HISTORY SURVEY III**  
Fall Semester. 3 semester hours.  
This is a general survey of art historical periods and movements during the seventeenth, eighteenth, nineteenth, twentieth, and twenty-first 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 rigueur* as well as exploration of relevant topics on the internet and via the class website. Though sequential, ART220, ART221, and ART222 may be taken separately.

ART 231  
**PAINTING I**  
Spring Semester. 3 semester hours.  
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 or permission of professor.

ART 232  
**PAINTING II**  
Fall Semester. 3 semester hours.  
This course primarily 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 or permission of professor.

ART 243  
**PHOTOGRAPHY**  
On Demand. 3 semester hours.  
This course explores techniques of basic black-and-white photography. The principles of design and the elements of art are explored. Students are encouraged to pursue this art form in the surrounding community and landscape.

ART 244  
**CALLIGRAPHY**  
On Demand. 3 semester hours.  
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.

ART 245  
**INTRODUCTION TO FLINT KNAPPING**  
Summer Semester. 3 semester hours. Cross-listed as SOC244.  
Students manufacture a variety of stone tools to learn about the evolution of prehistoric technology. Obsidian, flint, and bottle glass are worked with stone, antler, bone, and wood to fashion arrowheads, spear points, knives, and scrapers. Normally offered May Term. Non-refundable materials fee required. Prerequisite: permission of professor. Preference to majors and minors.

ART 251  
**CLAY**  
Fall Semester and On Demand. 3 semester hours.  
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.

ART 252  
**JEWELRY AND METALWORK I**  
Spring Semester. 3 semester hours.  
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.

**ART 271**  
**DESIGN OF THE EARTH’S LANDSCAPE**  
On Demand. 3 semester hours.  
An overview of the influence of geography and culture on historical and contemporary human settlement patterns. It explores the interrelationships between climate, natural resources, cultural values, and technology in the evolution of a variety of land use patterns around the globe.

**ART 275**  
**ELEMENTS OF ARCHITECTURE**  
On Demand. 3 semester hours.  
This is a lecture/studio course concerned with the elemental “building blocks” of architecture as well as with basic two-dimensional architectural graphic expression.

**ART 301**  
**DRAWING II**  
On Demand. 3 semester hours.  
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 or permission of professor.

**ART 314**  
**GALLERY**  
Fall and Spring Semesters. 1 semester hour.  
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.

**ART 315**  
**CREATIVITY**  
Fall Semester. Alternate Years. 3 semester hours.  
Cross-listed as ENG315 or MUS315. This course approaches creativity as a skill to develop, not as some magical gift bestowed on a few select people. The last three weeks of the course will be devoted to a large-scale project in the 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 date. Through the activities in this course, students will bring a higher degree of creativity to their daily lives.

**ART 321**  
**TOPICS IN ART HISTORY I**  
On Demand. 3 semester hours.  
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.

**ART 322**  
**TOPICS IN ART HISTORY II**  
On Demand. 3 semester hours.  
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.
ART 323
TOPICS IN ART HISTORY III
On Demand. 3 semester hours.
This is a study of the peoples and their art from the non-European traditions. Topics vary and may include Native American cultures 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 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.

ART 342
PRINTMAKING
On Demand. 3 semester hours.
Students are introduced to basic relief printmaking techniques such as linoleum and wood cut and collography. Other processes include monoprint, intaglio, silkscreen, and/or computer-generated graphics. Students will create, critique, and display original works of art. Prerequisite: ART101 or permission of professor.

ART 343
METHODS AND MATERIALS: TEACHING ART, GRADES K-8
On Demand. 3 semester hours.
Following a discipline-based approach to art education and curriculum development, this course integrates art production, art history, criticism, and aesthetics. Students learn the elements of design and apply them using traditional and non-traditional techniques (e.g. computer-generated graphics), materials and approaches. They are also immersed in art history, studying significant works of art in their historical context. Formal methods of art criticism and assessment and theories of aesthetics are studied and applied to their own, classmates’ and art historical works. Additionally, students are apprized of opportunities in higher education and careers in art. Most importantly, students learn to apply these skills to their prospective elementary and middle school students in an age-appropriate and safe manner. A variety of means is utilized in accomplishing these goals, including traditional classroom and library activities, computer technology, teaching a lesson in a public school, gallery/museum visits, guest speakers, and reaching the larger world via web-based information. Corequisite: ART353, EDC420.

ART 345
INTRODUCTION TO FLINT KNAPPING II
Summer Semester. 3 semester hours. Cross-listed as SOC344.
Students manufacture a variety of stone tools to learn about the evolution of prehistoric technology. Obsidian, flint, and bottle glass are worked with stone, antler, bone, and wood to fashion arrowheads, spear points, knives, and scrapers. Normally offered May Term. Non-refundable materials fee required. Prerequisite: permission of professor. Preference to majors and minors.

ART 350
SCULPTURE
Fall Semester. 3 semester hours.
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 or permission of professor.

ART 351
CLAY II
Fall Semester. 3 semester hours.
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 or permission of professor.

ART 352
JEWELRY AND METALWORK II
Spring Semester. 3 semester hours.
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 agree-
able 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.

ART 353
METHODS AND MATERIALS: TEACHING ART, GRADES 5-12
On Demand. 2 semester hours.
Following a discipline-based approach to art education and curriculum development, this course integrates art production, art history, criticism, and aesthetics. Students learn the elements of design and apply them by making art using traditional and non-traditional techniques (e.g. computer-generated graphics), materials and approaches. They also are immersed in art history, studying significant works of art in their historical context. Formal methods of art criticism and assessment and theories of aesthetics are studied and applied to their own, classmates’ and art historical works. Additionally, students are apprized of opportunities in higher education and careers in art. Most importantly, students learn to apply these skills to their prospective upper elementary, middle, and high school students in an age-appropriate and safe manner. A variety of means is utilized in accomplishing these goals including traditional classroom and library activities, computer technology, teaching a lesson in a public school, gallery/museum visits, guest speakers, and reaching the larger world via web-based information. Corequisite: ART343, EDC420.

ART 490
ART SEMINAR
Fall Semester. Alternate Years. 3 semester hours.
Primarily 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 is the focus of the course. Normally taught by both full-time art faculty, the art seminar is further enhanced by visits from the 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.

Aviation

Daniel G. Hargrove, Director of Aviation
Roy Speeg, Director of Flight Operations
Scott Wilson, Associate Professor
Charles Martell, Assistant Professor
William Hegenbarth, Simulator Instructor

The aviation program provides students the knowledge and skills required to enter the challenging and exciting world of professional aviation. Graduates will be ready to begin careers as pilots or managers in any sector of the aviation industry.

This multi-disciplinary program of study integrates the development of technical knowledge and skills with studies in the core foundation of the liberal arts. The curriculum emphasizes the communication, decision-making, and interpersonal skills that are critical for safe and effective flight operations. Integrated throughout the curriculum are professional considerations of human performance, ethical behavior, and life-long professional growth as attributes of future leaders in the field of aviation.

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.

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 the RMC flight training operations at Laurel 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 will be 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 RMC 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 preferred and recommended. Students minoring in aeronautical science must obtain at least a Class III FAA medical certificate, which is required for the private pilot certificate.

**Admission Criteria**: Admission into the aviation program is based on demonstrated academic leadership and responsibility, appropriate FAA medical certification, and admission to Rocky Mountain 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.

**Minor in Aeronautical Science**: A minimum of 20 semester hours, including AVS101, AVS150, AVS171, AVS172, AVS203, AVS308, and 5 semester hours of aviation electives.

**AVS 100**  
**INTRODUCTION TO PROFESSIONAL AVIATION**  
Fall and Spring Semesters. 1 semester hour. 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, writing, and oral presentations.

**AVS 101**  
**PRIVATE PILOT CERTIFICATION**  
Fall and Spring Semesters. 4 semester hours. 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: AVS171.

**AVS 150**  
**AVIATION METEOROLOGY**  
Spring Semester. 3 semester hours. 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.

**AVS 170**  
**FLIGHT ORIENTATION LAB**  
Fall and Spring Semesters. 1 semester hour. Provides the student approximately 8 hours of dual flight instruction designed to provide an understanding of the theory of flight and the factors basic to flight operations, including meteorology, air traffic control, and navigation. This lab is designed for aviation management majors who do not wish to complete the private pilot certificate. Corequisite: AVS101.
AVS 171
PRIVATE PILOT CERTIFICATION LAB I
Fall, Spring, and Summer Semesters. 1 semester hour.
Flight instruction providing dual and solo flight training in stages I and II of private pilot instruction syllabus. This course covers pre-flight preparation, aircraft operation procedures, proper aircraft flight control, air and ground safety, air traffic control procedures and communication, and VFR navigation. Corequisite: AVS101.

AVS 172
PRIVATE PILOT CERTIFICATION LAB II
Fall, Spring, and Summer Semesters. 1 semester hour.
Flight instruction that completes final VFR cross country, instrument interpretation, and flight maneuvers training in stage III of the flight instruction syllabus. Prepares the student for the FAA private pilot oral and flight examinations. The FAA private pilot certificate must be completed to fulfill course requirements. Prerequisite: AVS171.

AVS 200
INTERCOLLEGIATE FLIGHT COMPETITION
Fall and Spring Semesters. 1 semester hour.
Students conduct training for and participate in intercollegiate flight competition as a member of the RMC Flight Team.

AVS 201
PROFESSIONAL PILOT - INSTRUMENT
Fall and Spring Semesters. 4 semester hours.
Prepares the student for the FAA instrument rating knowledge examination. Provides an in-depth study of flight instruments, physiology of flight, aviation weather reports and forecasting, radio navigation, IFR departure, en route and arrival procedures, IFR flight planning, and emergency procedures. Students will also complete simulated flights using a Personal Computer Aviation Training Device (PCATD) to integrate and apply their knowledge of instrument flight procedures. Prerequisites: AVS101, AVS171, and AVS172; or permission of the Director of Aviation. Corequisite: AVS270.

AVS 202
PROFESSIONAL PILOT - COMMERCIAL
Fall and Spring Semesters. 3 semester hours.
Prepares the student for the FAA commercial pilot knowledge examination. Covers 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. Prerequisites: AVS201, AVS270; or permission of the Director of Aviation. Corequisite: AVS272.

AVS 203
INTRODUCTION TO AIR TRAFFIC CONTROL
Fall Semester. 3 semester hours.
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.

AVS 231
AVIATION HISTORY
Spring Semester. 3 semester hours. Cross-listed as HST231.
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 advances 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.

AVS 270
PROFESSIONAL PILOT - INSTRUMENT LAB I
Fall, Spring, and Summer Semesters. 1 semester hour.
Flight instruction covering stages I and II of the instrument rating syllabus, which includes instrument departure, en route, and approach procedures. Prerequisites: AVS101 and AVS172 or Private Pilot Certificate. Corequisite: AVS201.
AVS 271
PROFESSIONAL PILOT - INSTRUMENT LAB II
Fall, Spring, and Summer Semesters. 1 semester hour.
Flight instruction covering stage III of instrument rating syllabus which continues training in instrument approaches and IFR cross-country flights. Prepares the student for the FAA instrument rating oral and flight examinations. FAA instrument rating must be completed to fulfill course requirements. Prerequisite: AVS270. Corequisite: AVS201.

AVS 272
PROFESSIONAL PILOT - COMMERCIAL LAB I
Fall, Spring, and Summer Semesters. 1 semester hour.
Flight instruction covering commercial navigation and cross-country flights and night flying procedures. Completes Stage IV of the flight syllabus. Prerequisites: AVS270 and AVS271. Corequisite: AVS202.

AVS 273
PROFESSIONAL PILOT - COMMERCIAL LAB II
Fall, Spring, and Summer Semesters. 1 semester hour.
Flight instruction covering commercial flight maneuvers and flight in complex aircraft. Completes Stage V of the flight syllabus. Prerequisite: AVS272.

AVS 274
PROFESSIONAL PILOT - COMMERCIAL LAB III
Fall, Spring, and Summer Semesters. 1 semester hour.
Flight instruction providing a continuation of commercial flight maneuvers and complex aircraft flight procedures. Completes Stage VI of the flight syllabus and prepares the student for the FAA commercial pilot oral and flight examinations. The FAA commercial pilot certificate must be completed to fulfill course requirements. Prerequisite: AVS273.

AVS 301
CERTIFIED FLIGHT INSTRUCTOR
Fall Semester. 3 semester hours.
A two-part course that prepares the student 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. Prerequisites: AVS201, AVS202, and AVS274, or permission of the Director of Aviation.

AVS 306
MULTI-ENGINE RATING
Fall Semester. 1 semester hour.
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 or permission of the Director of Aviation. Corequisite: AVS376.

AVS 307
FBO AND GENERAL AVIATION OPERATIONS
Spring Semester. 3 semester hours.
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.

AVS 308
AVIATION SAFETY
Spring Semester. 3 semester hours.
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.

AVS 310
AIRPORT PLANNING AND ADMINISTRATION
Fall Semester. Alternate Years. 3 semester hours.
This course provides a forum for understanding the elements of proper airport planning and the importance of achieving a 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.
AVS 312
**AVIATION LAW**
Fall Semester. 3 semester hours.
This course provides a forum for understanding the statutes, regulations, and case law governing aviation. Topics of study include administrative law, aircraft accidents, airport liability, aircraft transactions, and airline labor law.

AVS 317
**AIRCRAFT POWER PLANTS**
Fall Semester. 3 semester hours.
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 or permission of professor.

AVS 318
**ADVANCED AIRCRAFT SYSTEMS**
Spring Semester. 3 semester hours.
An in-depth study of advanced aircraft systems including fuel, hydraulic, electrical, engine accessory, and auxiliary systems. Prerequisite: AVS317 or permission of professor.

AVS 325
**ADVANCED FLIGHT SYSTEMS**
Fall Semester. 3 semester hours.
Introduction to modern cockpit technology used in air transport aircraft. The course will address the function and operation of such equipment as satellite-based navigation systems, auto-pilots, flight management systems, electronic flight information systems, flat-face displays, ground proximity warning systems, terminal collision avoidance systems, and flight data and cockpit voice recording systems. Prerequisites: AVS201, AVS270 and AVS271.

AVS 371
**CERTIFIED FLIGHT INSTRUCTOR LAB**
Fall, Spring, and Summer Semesters. 1 or 2 semester hours.
Flight instruction under FAR part 61 or part 141 to prepare the student for the FAA flight instructor oral and flight examinations. The FAA flight instructor certificate must be completed to fulfill course requirements. Two credits are given for part 141 registration or one credit is given for part 61 registration. Lab fees will be calculated individually. Prerequisite: AVS274. Corequisite: AVS301.

AVS 372
**INSTRUMENT FLIGHT INSTRUCTOR**
Fall, Spring, and Summer Semesters. 2 or 3 semester hours.
Ground and flight instruction under FAR part 61 or part 141 to prepare the student for the FAA instrument flight instructor written, oral, and flight examinations. The FAA instrument instructor rating must be completed to fulfill course requirements. Three credits are given for part 141 registration or two credits for part 61 registration. Lab fees will be calculated individually. Prerequisite: AVS371 or FAA basic flight instructor certification.

AVS 373
**MULTI-ENGINE FLIGHT INSTRUCTOR**
Fall, Spring, and Summer Semesters. 2 or 3 semester hours.
Ground and flight instruction under FAR part 61 or part 141 to prepare the student 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. Three credits are given for part 141 registration or two credits for part 61 registration. Lab fees will be calculated individually. Prerequisite: AVS371 or FAA basic flight instructor certification.

AVS 376
**MULTI-ENGINE RATING LAB**
Fall, Spring, and Summer Semesters. 1 semester hour.
Flight instruction to prepare for the FAA multi-engine rating oral and flight examinations. Covers 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.

AVS 400
**AVIATION PROFESSIONAL DEVELOPMENT**
Fall and Spring Semesters. 1 semester hour.
This culminating course focuses on professional issues and integrates all facets of the student’s college educa-
tional 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 status.

**AVS 404**
**CREW RESOURCE MANAGEMENT WITH LAB**
Fall and Spring Semesters. 2 semester hours.
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.

**AVS 405**
**AIR TRANSPORTATION AND FLIGHT OPERATIONS**
Fall Semester. 3 semester hours.
Provides a broad understanding of the air transportation industry. The scope of the course includes knowledge of state and federal regulations and the basis for their establishment. Areas of concentration include airline operations, maintenance, marketing, aircraft performance, and economic factors affecting the aviation industry. Prerequisites: AVS152 and junior or senior status.

**AVS 410**
**ADVANCED AERODYNAMICS AND AIRCRAFT PERFORMANCE**
Spring Semester. 3 semester hours.
Covers advanced theories of flight and performance factors including airfoil shape; lift and drag; velocity; power and thrust; stability and control; advanced principles of performance, capabilities, and limitations; performance design criteria; and load factors. Prerequisites: AVS202 and MAT110. AVS274 and MAT111 are preferred.

**AVS 419**
**AIR CARRIER OPERATIONS**
Fall and Spring Semesters. 3 semester hours.
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. The course provides the knowledge required to qualify for the FAA airline transport pilot and flight engineer (basic) knowledge examinations. Prerequisites: AVS202, AVS405.

**AVS 443**
**AIRLINE DISPATCHER CERTIFICATION**
Fall and Spring Semesters. 2 semester hours.
A culminating study of airline operations that prepares the student for the FAA dispatcher certification knowledge and practical examinations. The course includes 40 hours of practical experience and observation of airline dispatch operations. Students must be 21 years of age by the end of the semester that the course is taken to meet FAA written exam requirements. Prerequisites: AVS101, AVS150, AVS201, AVS202, AVS203, AVS317, AVS318. Corequisite: AVS419.

**Biology**

*Claire Oakley, Professor*
*Cristi Hunnes, Associate Professor*
*Dan Albrecht, Associate Professor*
*Douglas McFarlane, 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 laboratory/field settings.

Students are encouraged to pursue a broad course of study in biology. If desired, majors may specialize in one of two areas: health science or evolution/ecology. Biology students must reach into other sciences (chemistry, physics, earth and environmental) and mathematics to better understand their own discipline. To help students develop a framework for understanding biological literature, they are encouraged
to take as many writing classes as possible. Throughout the course of study, students must synthesize old and new information and determine whether concepts are consistent or inconsistent with what they are learning.

The program provides biology majors with a broad foundation, which prepares students for either the workplace or graduate school.

**Major in Biology:** A minimum of 30 semester hours in biology including BIO111, BIO112, BIO203, and BIO306, and one physiology class from the following: BIO252, BIO321, BIO322. In addition: CHM101 and CHM102; or CHM100 and CHM250; and PHS101 and PHS102; or PHS201 and PHS202; and CHM300, CHM301, and either BIO452 or CHM452.

**Major in Biology with Occupational Therapy:** A minimum of 30 semester hours including BIO111, BIO112, BIO250, BIO321, BIO322, a one-year sequence of chemistry and physics, and CHM300. In addition, but not as part of the major, students must fulfill the current prerequisite courses required by Washington University for the 3-2 occupational therapy program. Students need to recognize that this major requires attendance and successful completion of two semesters of class work at Washington University before a bachelor’s degree is granted by Rocky Mountain College. Students who complete the prerequisites are not guaranteed a position in the Washington University program, since they must apply and be accepted.

**Major in Biology Education:** A minimum of 33 semester hours in biology including BIO111, BIO112, BIO252 or BIO321, BIO306, BIO315, IDS422, a botany course, and one additional upper-division elective. Students also must take CHM101 and CHM102; or CHM100 and CHM250; and PHS101 and PHS102; or PHS201 and PHS202; and CHM300, CHM301, and either BIO452 or CHM452. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog.

**Minor in Biology:** A minimum of 20 semester hours in biology (6 credits of upper-division courses) plus one course in chemistry with a laboratory section is required.

**Minor in Biology Education:** A minimum of 24 semester hours is required, including BIO111, BIO112, BIO252 or BIO321, BIO306, BIO315, and one taxon/organismal course from the following: BIO250, BIO311, or BIO317. IDS422 is also required.

In addition, one course in chemistry and completion of the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog.

**NOTE:** The following courses are eligible for biology credit: ENV207/307, ENV230, ENV314, ENV325, and GEO301.

**BIO 102**
**GENERAL BIOLOGY FOR NON-MAJORS**
Summer Semester. 4 semester hours.
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.

**BIO 111**
**GENERAL BIOLOGY I**
Fall Semester. 4 semester hours.
An introductory survey emphasizing the cell, cellular respiration, photosynthesis, genetics, and molecular biology. The weekly laboratories teach basic laboratory skills, safety, experimental design, and the application of statistics. One two-hour laboratory per week.

**BIO 112**
**GENERAL BIOLOGY II**
Spring Semester. 4 semester hours.
An introductory course emphasizing the individual, population, and community levels of biology. Topics include basic genetics, elementary 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 may be required.

**BIO 203**
**GENETICS**
Fall Semester. 3 semester hours.
A detailed overview of the mechanisms of heredity. Topics will include Mendelian, quantitative, and molecular genetics. Prerequisites: BIO111, BIO112, and either CHM100 or CHM101.
BIO 207
RESEARCH TECHNIQUES IN ECOLOGY
Spring Semester. 2 semester hours.
A field and laboratory course covering basic field techniques. Topics will include experimental design, data analysis, surveys, trapping and marking, telemetry, population estimation, survivorship, and foraging.

BIO 240
BIOLOGY OF HIV/AIDS AND THE IMMUNE SYSTEM
Spring Semester. 3 semester hours.
Explores HIV from its mechanism of action to its contribution to opportunistic infections and the scientific rationale for various therapies. Guest speakers will link biological concepts to the human condition.

BIO 241
BIOLOGICAL ANTHROPOLOGY
Spring Semester. 3 semester hours. Cross-listed as SOC241.
History of the theory of evolution, including the modern synthetic theory of evolution, population genetics, hominid evolution from the Miocene hominoids to Homo sapiens, primate ethnology, and sociobiology.

BIO 250
MICROBIOLOGY
Spring Semester. 4 semester hours.
An investigation of the structure, genetics, metabolism, and reproduction of microorganisms. The course will emphasize epidemiology and public health, immunology and immunity, and major microbial diseases. In the laboratory, students will detect, isolate, and identify both harmless and pathogenic microbes. Three lectures and one two-hour laboratory per week. Prerequisites: BIO111, and CHM100 or CHM101.

BIO 252
ANIMAL PHYSIOLOGY
Spring Semester. 3 semester hours.
Designed for students pursuing ecology, biodiversity, and environmental studies, this class will introduce students to the basic concepts of animal regulation. Feedback and homeostasis, key foundational concepts in biology, are needed to better understand upper-division classes in the biological sciences. Prerequisites: high school or college chemistry, and an introductory college biology class.

BIO 305
GENERAL VERTEBRATE ZOOLOGY
Fall Semester. Alternate years. 4 semester hours.
This course provides a detailed overview of the species diversity, natural history, and evolution of the vertebrates. These concepts are highlighted through comparisons within and between vertebrate groups. Special emphasis will be placed on evolutionary relationships to track the key innovations in morphology, physiology, and ecology that have contributed to vertebrate diversification. One two-hour laboratory per week. Prerequisites: BIO111, BIO112, BIO203, and BIO306.

BIO 306
EVOLUTION
Spring Semester. 3 semester hours.
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. Prerequisites: BIO111, BIO112, BIO203, and math skills comparable to completion of MAT110.

BIO 311
BOTANY
Spring Semester. Alternate Years. 4 semester hours.
Introduction to botany covering anatomical, physiological, ecological, genetic, and evolutionary aspects of plants. Three lectures and one two-hour laboratory per week. Weekend field trips required.

BIO 315
ECOLOGY
Fall Semester. 4 semester hours.
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. One two-hour laboratory per week. Prerequisites: BIO111, BIO112, BIO203, BIO306, and math skills comparable to completion of MAT110.
BIO 317
ORNITHOLOGY
Fall Semester. Alternate Years. 4 semester hours.
A lecture and field/laboratory course detailing anatomy and physiology, ecology, evolution, and identification of birds. Topics will include morphology, flight, foraging, migration, mating systems, and bird conservation. Two lectures and one two-hour laboratory per week. Discussion of current literature. Prerequisites: BIO 111 and BIO 112.

BIO 321
HUMAN ANATOMY AND PHYSIOLOGY I
Fall Semester. 4 semester hours.
An introductory course in human structure and function. Topics include tissue types as well as skeletal, muscular, nervous, respiratory, and reproductive anatomy and physiology. One two-hour laboratory per week. Human cadavers are used in the laboratory. Prerequisites: BIO111, and one semester of college chemistry.

BIO 322
HUMAN ANATOMY AND PHYSIOLOGY II
Spring Semester. 4 semester hours.
A continuation of the introductory basis to human structure and function. Topics include digestive, cardiovascular, renal, urinary acid-base balance, endocrine, and immune system anatomy and physiology. One two-hour laboratory per week. Human cadavers are used in the laboratory. Prerequisites: BIO111, BIO321, and one semester of college chemistry.

BIO 347
ANIMAL BEHAVIOR
Fall Semester 2003 only. 3 semester hours.
Fall Semester. Alternate Years. 4 semester hours.
NOTE: For Fall 2003, this course is offered for 3 semester hours and will not count as a lab science.
A broad overview of the development, expression, and control of behavior. This course will provide a foundation for understanding animal ecology, revealing evolutionary relationships, and managing fish and wildlife populations. Topics will include communication, predation, foraging, mating, parental care, and sociality. Lectures and weekly discussions of current literature. Prerequisites: BIO111, BIO112, BIO203, BIO306, and BIO315.

BIO 410
CONSERVATION BIOLOGY
Fall Semester. Alternate Years. 4 semester hours.
A multi-disciplinary approach to conservation encompassing genetics to ethics. Discussions will emphasize biological diversity, extinction probability theory, reserve design, management, and reintroduction strategies in the context of human society. Written and oral presentations are required. Prerequisites: BIO203, BIO306, BIO315, and math skills comparable to completion of MAT110.

BIO 421
ADVANCED PHYSIOLOGY
On Demand. 3 semester hours.
An in-depth look at physiological systems and their bases in the scientific literature. Membrane potentials will be a key topic. Nerve, muscle, kidney, respiration, and cardiovascular and endocrine physiology will be studied depending on the semester. Prerequisites: BIO111, BIO112, BIO321, BIO322, CHM101, CHM102, CHM300, and CHM301.

BIO 452
BIOCHEMISTRY
Fall Semester. 4 semester hours. Cross-listed as CHM452.
An introduction to the chemistry of carbohydrates, lipids, and proteins. Topics include protein structure, enzyme kinetics, biosynthesis, and catabolism of carbohydrates, lipids, and proteins. Three lectures and one three-hour laboratory period. Prerequisites: CHM301 and BIO111.

BIO 460
BIOCHEMISTRY II
Spring Semester. Alternate Years. 3 semester hours.
Cross-listed as CHM460.
An in-depth study of nucleotides and nucleic acids. Topics include DNA replication and repair, RNA transcription and processing, protein synthesis, DNA recombinant technology, and bioethics. This course covers topics in more depth than genetics. Prerequisite: BIO/CHM452 or BIO203.

BIO 483
DISSECTION
Summer Semester. 3 semester hours.
Students will begin to learn how to dissect a human
Each student will choose or be assigned to a region. Prerequisites: BIO321, BIO322, and permission of the professor.

**BIO 490 SEMINAR**
Spring Semester. 1 semester hour.

**Business Administration and Economics**

*James McDowell, Professor, Keith Brown Chair of Business Ethics*
*Sandra Barz, Professor*
*Anthony Piltz, Professor*
*Bernard Rose, Professor*
*Scott Severance, Assistant Professor*
*James Smith, Assistant Professor*
*James Anderson, 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 accounting, managerial accounting, management, management information systems, agribusiness, and economics. The College also offers a 150-hour accountancy option, which allows graduates to meet the Montana Board of Public Accountants’ requirements to sit for the uniform CPA examination. All of the aforementioned 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 local businesses and earn credit at the same time. The internship requirement provides students with valuable, real-world, 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 Core Courses:** All students majoring in the program are required to take BSA201, BSA202, BSA209 or MAT210, BSA450, ECO201, and ECO202. Total semester hours in core: 21.

**Major in Business Administration and Economics:** In addition, students will choose one of seven options. The following courses are required for each of the options:

**ACCOUNTANCY OPTION:** BSA305, BSA307, BSA331, BSA351, BSA352, BSA353, BSA451, BSA472, ECO301, 3 semester hours of upper-division accounting electives, and 18 hours of upper-division business/economics electives (other than accounting). The entire course of study consists of a minimum of 150 semester hours. All major requirements must be met prior to the semester in which the student intends to sit for the CPA exam.

**ACCOUNTING OPTION:** BSA305, BSA307, BSA351, BSA352, BSA472, ECO301, and an accounting elective (3 semester hours).

**AGRIBUSINESS OPTION:** BSA343, BSA422, ECO345, and electives in the program (9 semester hours). A junior year internship (3 semester hours) and a senior year internship (6 semester hours) are required. The agribusiness option requires students to take at least 15 credits in agriculturally-oriented courses at another college.

**BUSINESS MANAGEMENT OPTION:** BSA311, BSA321, BSA422, BSA343, ECO301, and 9 semester hours of electives.

**ECONOMICS OPTION:** ECO301, ECO345, ECO346, ECO402, and 9 semester hours of electives.

**MANAGEMENT INFORMATION SYSTEMS OPTION:** BSA320, BSA321, BSA422, CSC114, CSC130, CSC376 or IT477, CSC411, IT301, and IT310.

**MANAGERIAL ACCOUNTING OPTION:** BSA305, BSA308, BSA311, BSA320, BSA351, BSA352, BSA371, and BSA422.

**Minor in Economics and Business Administration:** The department also offers three options as minors (18 semester hours each):

**Accounting Option:** BSA201, BSA202, BSA351, and 9 semester hours of accounting electives, including at least one additional upper-division 3 semester hour course.

**Business Management Option:** BSA201, BSA202, ECO202, and 9 semester hours of electives, including at least 6 upper-division semester hours.
**Economics Option**: ECO201, ECO202, ECO301, and 9 semester hours of electives in economics, including at least one additional upper-division 3 semester hour course.

**Minor in Economics Education**: Economics education minors will complete the economics minor as outlined above. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog. The special methods course for economics education minors is EDC420.

**Business**

**BSA 101**
**INTRODUCTION TO BUSINESS**
Fall and Spring Semesters. 3 semester hours.
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.

**BSA 201**
**PRINCIPLES OF ACCOUNTING I**
Fall and Spring Semesters. 3 semester hours.
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.

**BSA 202**
**PRINCIPLES OF ACCOUNTING II**
Fall and Spring Semesters. 3 semester hours.
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.

**BSA 209**
**BASIC STATISTICAL METHODS**
Fall Semester. 3 semester hours.
The general methods of presentation, interpretation, and analysis of statistical data. Testing hypotheses by student, normal, and chi-squared distributions, correlation and regression analysis, and analysis of variance. Particular reference is made to the application of statistical methods to the behavioral sciences.

**BSA 305**
**COST ACCOUNTING**
Spring Semester. Alternate Years. 3 semester hours.
A course which introduces cost concepts and applications, costing methods, cost-profit-volume analysis, budgeting, and other techniques to aid management in planning and controlling business activities. Prerequisite: BSA202.

**BSA 307**
**TAX ACCOUNTING I**
Fall Semester. Alternate Years. 3 semester hours.
A course which directs attention to the basic provisions of the Internal Revenue Code, the reasons behind them, and the impact of their interrelationships. Cases involve the application of tax principles to individuals. Prerequisite: BSA202.

**BSA 308**
**TAX ACCOUNTING II**
Spring Semester. Alternate Years. 3 semester hours.
A study of the principles of federal income tax accounting as they relate to partnerships and corporations. Case studies will be examined as well as relevant sections of the current Internal Revenue Code.

**BSA 311**
**PRINCIPLES OF FINANCE**
Fall Semester. 3 semester hours.
An introduction to the principles of business finance. Topics covered include financial analysis and planning, working capital management, the time value of money, and capital budgeting. Prerequisites: ECO201, ECO202, BSA201, and BSA202.

**BSA 313**
**STUDENTS IN FREE ENTERPRISE**
Fall and Spring Semesters. 3 semester hours.
Students will develop skills in leadership, communication, and teamwork through learning and practicing the principles of free enterprise. Students select, plan, and implement real-world projects and compete annually at the regional SIFE competition. This course can be taken a maximum of three times.
BSA 315
PRINCIPLES OF INTERNATIONAL BUSINESS
Spring Semester. Alternate Years. 3 semester hours.
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 class. Prerequisites: BSA201, BSA202, ECO201, ECO202; and junior status.

BSA 317
FINANCIAL DERIVATIVES
On Demand. 3 semester hours.
Analysis of futures and options as a means of reducing risk in agricultural production and services.

BSA 318
ENTREPRENEURSHIP
Spring Semester. Alternate Years. 3 semester hours.
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.

BSA 320
MANAGEMENT INFORMATION SYSTEMS
Spring Semester. Alternate Years. 3 semester hours.
A study of computers and their relationship to the business world. Designed to provide business students with general insights into computers beyond the introductory level.

BSA 321
PRINCIPLES OF MANAGEMENT
Fall Semester. 3 semester hours.
An examination of 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. Prerequisite: junior or senior status.

BSA 331
BUSINESS LAW
Fall Semester. Alternate Years. 3 semester hours.
A course which 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.

BSA 343
PRINCIPLES OF MARKETING
Fall and Spring Semesters. 3 semester hours.
A study of the marketing process from product development through consumer purchase. Includes examination of consumer buying behavior, marketing channels, physical distribution, and pricing policies and promotion along with their role in the marketing process. Prerequisite: ECO202.

BSA 345
PRINCIPLES OF ADVERTISING
Spring Semester. Alternate Years. 3 semester hours.
An in-depth look at consumers as purchasers. Emphasis is on media use in the marketing and advertising effort. Study of print and broadcast media’s advantages, disadvantages, special uses, creative techniques, and evaluation of effectiveness.

BSA 347
PRINCIPLES OF INVESTING
Fall and Spring Semesters. 3 semester hours.
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.

BSA 351
INTERMEDIATE ACCOUNTING I
Fall Semester. 3 semester hours.
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.

**BSA 352**
**INTERMEDIATE ACCOUNTING II**
Spring Semester. 3 semester hours.
A continuation of BSA351 which 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.

**BSA 353**
**INTERMEDIATE ACCOUNTING III**
Spring Semester. Alternate Years. 3 semester hours.
A continuation of BSA351 and BSA352. The advanced topics of leases, post-retirement benefits, and deferred taxes are discussed in detail. Revenue recognition issues, investments, financial statement analysis, and investment analysis are also covered. Prerequisites: BSA351, BSA352.

**BSA 361**
**RETAILING**
Spring Semester. Alternate Years. 3 semester hours.
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.

**BSA 371**
**MANAGERIAL ACCOUNTING**
Fall Semester or Spring Semester. 3 semester hours.
A course which focuses on the use of cost information to assist management in setting policies, budgeting, cost control, and decision-making. Open to non-accounting majors. Prerequisite: BSA202.

**BSA 372**
**NOT-FOR-PROFIT ACCOUNTING**
Fall Semester. Alternate Years. 3 semester hours.
A course which covers the conceptual and procedural issues involving accounting, reporting, and auditing public sector organizations including state and local governments, universities, hospitals, and other not-for-profit organizations. Prerequisite: BSA351.

**BSA 407**
**TAX RESEARCH**
On Demand. 3 semester hours.
An advanced course covering research on the issues surrounding taxation. A case study approach allows the student to refine tax research skills and determine the proper tax treatment in a variety of situations. Prerequisite: BSA307.

**BSA 412**
**BUSINESS ETHICS**
Fall Semester. 3 semester hours.
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 status or permission of professor.

**BSA 421**
**BUSINESS POLICY**
Spring Semester. Alternate Years. 3 semester hours.
A capstone experience for the economics/business major. Topics will vary from year to year depending on the instructor’s interests, the needs of the students, and topicality. Prerequisite: senior status or the permission of professor.

**BSA 422**
**PRODUCTION AND OPERATIONS MANAGEMENT**
Spring Semester. 3 semester hours.
An introduction to various aspects of production, resource, and operations management which focuses on production methodologies, scheduling, inventory control, quality control, and project management. Performance evaluation and resource planning are also emphasized. Prerequisites: BSA202, ECO202.

**BSA 425**
**SMALL BUSINESS OPERATIONS**
On Demand. 3 semester hours.
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.

BSA 450  
INTERNSHIP  
On Demand. Minimum of 3 semester hours. Guided work experience and study of a professional nature in an established business, government agency, or other institution. Contract required. No more than 3 semester hours will count toward the major. Prerequisites: junior status and consent of the business faculty.

BSA 451  
ADVANCED ACCOUNTING  
Spring Semester. Alternate Years. 3 semester hours. A course which introduces the theory and practice relative to business combinations, mergers, consolidations, and acquisitions. Other topics include partnerships, foreign operations, and governmental and not-for-profit accounting. Prerequisite: BSA351.

BSA 452  
ACCOUNTING THEORY  
Fall Semester. Alternate Years. 3 semester hours. The theoretical background supporting and explaining generally accepted accounting principles, conventions, and practices. Exposure to controversial accounting issues and issues in accounting choices. The political, cultural, and economic setting that molds accounting and accounting institutions will also be explored. Prerequisite: BSA351.

BSA 454  
INTERNATIONAL ACCOUNTING  
Spring Semester. Alternate Years. 3 semester hours. Examines in detail the political, cultural, and economic setting that molds accounting throughout the world. Students will discuss the specific accounting problems related to multinational and international operations from both the financial and managerial perspectives. Prerequisite: BSA351.

BSA 472  
AUDITING  
Fall Semester. Alternate Years. 3 semester hours. A course which covers generally accepted auditing standards and the philosophy supporting them. Areas of study include the auditing environment, professional ethics, the auditor’s legal liability, techniques of internal control, audit evidence, working papers, and the auditor’s report. Prerequisite: BSA351.

BSA 490  
SEMinar  
On Demand. 1-3 semester hours. Selected topics in business.

Economics

ECO 201  
PRINCIPLES OF MACROECONOMICS  
Fall and Spring Semesters. 3 semester hours. The study of aggregate economic problems. An introduction to the economics of full employment, economic growth, and price stability.

ECO 202  
PRINCIPLES OF MICROECONOMICS  
Fall and Spring Semesters. 3 semester hours. The study of individual economic problems. An introduction to production and exchange, pricing policies, and resource allocation under alternate competitive situations.

ECO 203  
CONTEMPORARY ECONOMIC PROBLEMS  
Fall Semester. Alternate Years. 3 semester hours. This course will look at the application of beginning economic theory to problems of the American and world economy. Such issues as agriculture, poverty, world trade and finance, and alternative economic systems will be addressed. Prerequisites: ECO201 and ECO202.

ECO 301  
MONEY AND BANKING  
Fall Semester or Spring Semester. 3 semester hours. 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.

ECO 302  
PUBLIC FINANCE AND TAXATION  
Spring Semester. Alternate Years. 3 semester hours. An examination of government spending and taxation
from a theoretical perspective. Prerequisites: ECO201 and ECO202.

ECO 305
AMERICAN ECONOMIC HISTORY
On Demand. 3 semester hours.
A history of the American economy from colonial to modern times. Emphasis on industrial growth, government policy, and agriculture.

ECO 345
INTERMEDIATE MICROECONOMICS
Fall Semester. Alternate Years. 3 semester hours.
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.

ECO 346
INTERMEDIATE MACROECONOMICS
Fall Semester. Alternate Years. 3 semester hours.
Analysis of Keynesian and post-Keynesian economic theories of national income, employment, and growth. Prerequisite: ECO201.

ECO 350
ENTERPRISE ANALYSIS
Spring Semester. Alternate Years. 3 semester hours.
Application of microeconomic principles to agricultural production and services problems. Prerequisite: ECO346 or consent of instructor.

ECO 352
ENERGY ECONOMICS
On Demand. 3 semester hours.
The study of energy supply and demand. Emphasis on energy resources available, the allocation of these resources, energy technology, and cost. National energy goals and policies are discussed. Prerequisite: ECO202.

ECO 354
ENVIRONMENTAL ECONOMICS
Spring Semester. Alternate Years. 3 semester hours.
A study of 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.

ECO 401
INTERNATIONAL TRADE
Spring Semester. Alternate Years. 3 semester hours.
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. Prerequisites: ECO201 and ECO202.

ECO 402
DEVELOPMENT OF ECONOMIC IDEAS
Fall Semester. Alternate Years. 3 semester hours.
Historic development of economic theory. Emphasis is analytical; consideration is given to institutional and philosophical backgrounds.

ECO 490
SEMINAR
On Demand. 1-3 semester hours.
Selected topics in economics.

Chemistry
Cristi Hunnes, Associate Professor
Sujata Guha, Assistant Professor

The goals of the chemistry program are to teach the fundamentals of chemistry in the areas of inorganic, organic, analytical, physical, environmental, and biological. In doing so, faculty challenge students to think critically, to solve problems, and to apply the information they have learned to their everyday lives and to their profession of choice. Students learn how to creatively solve problems, design laboratory experiments, and interpret experimental results. Students learn to communicate scientific ideas through papers and oral presentations. Chemistry is an important component of a liberal arts education. The program utilizes interdisciplinary approaches to teaching concepts, drawing from the sciences, arts, and humanities. Students explore ethical considerations in the changing world of science and also consider regional issues, such as energy and pollution. The program ignites students’ interest in chemistry so they see the relevance of chemistry to their lives and develop a desire to continue learning.

The chemistry program prepares science majors for careers in chemistry and chemistry-related areas. Pre-professional students are prepared for further
specialized study, and science majors are prepared for graduate study or the work place. Graduates of the chemistry program have excelled in both graduate school and in their careers.

**Major in Chemistry**: A minimum of 30 semester hours including CHM101, CHM102, CHM201, CHM202, CHM300, CHM301, CHM401, MAT111, MAT112, PHS201, and PHS202.

**Major in Chemistry Education**: This major includes the same courses as the regular chemistry major as outlined above, plus IDS422. ENV340 is strongly recommended for this major. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog.

**Minor in Chemistry**: A minimum of 20 semester hours, including CHM101, CHM102, CHM201, CHM300, and CHM301.

**Minor in Chemistry Education**: A minimum of 20 semester hours including CHM101, CHM102, CHM201, CHM300, ENV340, MAT111, MAT112, and IDS422.

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**CHM 100**  
**CHEMISTRY I**  
Fall Semester. 4 semester hours.  
A survey of inorganic chemistry with applications to the allied health sciences. Real-world applications of chemistry are emphasized in the laboratory. Three lectures and one two-hour laboratory session per week. Open to all students. CHM100 and CHM250 fulfill the chemistry prerequisites for the PA program. This course is an appropriate course for non-science majors seeking to fulfill a general education requirement.

**CHM 101**  
**GENERAL CHEMISTRY I**  
Fall Semester. 4 semester hours.  
An introduction to the science of chemistry. Consists of inorganic chemistry and an introduction to organic, physical, analytical, and biological chemistry. Quantitative relations are emphasized in the laboratory work. Three lectures and one two-hour laboratory period per week. Prerequisite: MAT100 or higher math course or placement into MAT110 or higher math course.

**CHM 102**  
**GENERAL CHEMISTRY II**  
Spring Semester. 4 semester hours.  
Further development of the various chemical concepts that form the basis of organic, physical, analytical, biological, and inorganic chemistry. Laboratory experiments continue the development of basic quantitative skills. Three lectures and one two-hour laboratory per week. Prerequisite: CHM101.

**CHM 201**  
**QUANTITATIVE ANALYSIS I**  
Fall Semester. Alternate Years. 4 semester hours.  
Emphasis on weight and volume relationships, chemical equilibria, and the quantitative separation and analysis of inorganic and organic materials by gravimetric, volumetric, and electrolytic methods. Three lectures and one three-hour laboratory period per week. Prerequisite: CHM102.

**CHM 202**  
**QUANTITATIVE ANALYSIS II**  
Spring Semester. Alternate Years. 4 semester hours.  
Exploration of instrumental methods of analysis and application of quantitative methods to environmental studies and other scientific areas. Three lectures and one three-hour laboratory period per week. Prerequisites: CHM102 and CHM201.

**CHM 250**  
**CHEMISTRY II**  
Spring Semester. 3 semester hours.  
A survey of organic and biochemistry with applications to the allied health sciences. This course is a continuation of CHM 100. Open to all students. CHM 100 and CHM 250 fulfill the chemistry prerequisites for the PA program. Three lectures per week. Prerequisite: CHM100.

**CHM 300**  
**ORGANIC CHEMISTRY I**  
Fall Semester. 4 semester hours.  
The classification, syntheses, and reactions of compounds which contain carbon with an emphasis placed on reaction mechanisms and stereochemistry. Laboratory work includes preparation of compounds with biological and industrial importance. Three lectures and one three-hour laboratory period per week. Prerequisites: CHM101 and CHM102.
CHM 301
ORGANIC CHEMISTRY II
Spring Semester. 4 semester hours.
The classification, syntheses, and reactions of more complicated compounds that contain carbon with an emphasis placed on reaction mechanisms and stereochemistry. Laboratory work includes preparation of compounds with biological and industrial importance, as well as identification of an unknown compound. Three lectures and one three-hour laboratory period per week. Prerequisite: CHM300.

CHM 401
PHYSICAL CHEMISTRY I
Fall Semester. Alternate Years. 4 semester hours.
Analysis of the properties of gases, liquids, and solids, along with the nature of chemical reactions, colloids, solutions, chemical thermodynamics, and quantum mechanics. Three lectures and one three-hour laboratory period per week. Prerequisites: MAT112 and PHS202.

CHM 402
PHYSICAL CHEMISTRY II
Spring Semester. Alternate Years. 4 semester hours.
Further in-depth analysis of the states of matter along with the concepts of thermodynamics and quantum chemistry. Three lectures and one three-hour laboratory period per week. Prerequisites: CHM401, MAT112, and PHS202.

CHM 452
BIOCHEMISTRY
Fall Semester. 4 semester hours. Cross-listed as BIO452.
An introduction to the chemistry of carbohydrates, lipids, and proteins. Topics include protein structure, enzyme kinetics, biosynthesis, and catabolism of carbohydrates, lipids, and proteins. Three lectures and one three-hour laboratory period per week. Prerequisites: CHM301 and BIO111.

CHM 460
BIOCHEMISTRY II
Spring Semester. Alternate Years. 3 semester hours. Cross-listed as BIO460.
An in-depth study of nucleotides and nucleic acids. Topics include DNA replication and repair, RNA transcription and processing, protein synthesis, DNA recombinant technology, and bioethics. This course covers topics in more depth than genetics. Prerequisite: CHM/BIO452 or BIO203.

CHM 490
SEMINAR
On Demand. 1-3 semester hours. Selected topics in chemistry.

Communication Studies

Victoria Christie, Professor

The word “communicate” has the same root as the word “community”: the Latin communis. To communicate is to create and engage in community. In studying communication, students are encouraged to use symbols, words, and images to develop important tools of expression. Students learn a discipline, develop critical thinking skills, and explore ethical issues as they develop their own communication skills. Whether practicing the use of sign, causal, and analogical reasoning in a competitive collegiate debate or reflecting upon how people in a shelter for people with AIDS and a modern corporation both create communities in similar ways, students use knowledge about symbols to understand their worlds. It is hoped that students will become articulate and intentional communicators, respecting the integrity and power of the spoken and written word. The skills learned by studying communication are some of those most sought after by employers. Students may choose to major in professional communication or tailor their major through an independent program of study. Accomplishing a minor in communication studies is also an option. Any of these paths will lead students to careers in diverse professions such as human relations, communication consulting, and organizational design, or those paths can lead to graduate and professional schools.

Major in Professional Communication: A minimum of 33 semester hours, including COM102, COM250, COM306, COM310, COM/ENG355, COM402, COM490; ENG251 or ENG451, ENG319, ENG325, and ENG365.

Minor in Communication Studies: A minimum of 21 semester hours with at least two of the courses being upper-division courses offered by the communication studies program. COM 101, COM102, COM 250, COM 260, COM 310, and one of the
following: COM306, COM 308, COM355, or COM402. Three semester hours of electives may be taken within the communication studies program or within a related field such as theatre or English. Courses outside the communication studies program are to be chosen in consultation with the faculty.

COM 101
INTERPERSONAL COMMUNICATION
Fall and Spring Semesters. 3 semester hours.
This course examines how intimate, personal, and professional relationships are created and maintained. Students develop an increased awareness of and sensitivity to behaviors which facilitate effective interpersonal communication as well as to those behaviors which serve as obstacles. The course addresses topics such as perception, self-concept, listening, and interpersonal conflict.

COM 102
PUBLIC SPEAKING
Fall and Spring Semesters. 3 semester hours.
In this skills-based course, students deliver informative and persuasive speeches. The course examines audience analysis, speech organization and delivery, developing support materials, and persuasive appeals. By the end of the course, students are able to speak competently and confidently to many types of audiences.

COM 250
SMALL GROUP COMMUNICATION
Fall Semester. Alternate Years. 3 semester hours.
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. Students examine group processes, learning the reasons why groups succeed or fail. Students learn how to run meetings fairly and efficiently.

COM 257
INTERCOLLEGIATE FORENSICS
Fall and Spring Semesters. 1 semester hour.
For students actively preparing for, and/or participating in, individual intercollegiate events or debate. Pass/no pass grading.

COM 260
ARGUMENTATION AND DEBATE
Fall Semester. 3 semester hours.
The course explores how people reason and what makes a good persuasive speaking style. After choosing important topics, students prepare their arguments and then debate. Students learn to develop effective persuasive speaking skills as well as to constructively analyze the arguments of others.

COM 306
ORGANIZATIONAL COMMUNICATION
Spring Semester. Alternate Years. 3 semester hours.
Organizational communication is the study of how communication occurs in large cooperative networks, especially in work settings. Students learn how to supervise people, attract customers and clients, and understand the values and cultures of the organization within which they work. Knowledge of organizational communication is especially useful for future employees of corporate and non-profit organizations, since effective communication is a critical skill for success. Prerequisite: COM102 or permission of professor.

COM 308
INTERCULTURAL COMMUNICATION
Spring Semester. Alternate Years. 3 semester hours.
Intercultural communication examines the way in which culture influences communicative practices behaviorally, affectively, and cognitively. Language, thought, and a particular way of viewing the world are all conveyed through culture, which can refer to people bound together by a shared language or to a sub-set of people contained within a larger society. Culture is continuously negotiated among people through the exchange of symbols. Students who expect to participate in an international work place will better understand the importance of intercultural communication. Prerequisite: COM102 or permission of professor.

COM 310
COMMUNICATION THEORY
Fall Semester. Alternate Years. 3 semester hours.
This course explores theories which explain communication behavior in relationships, in group decision-making, in work organizations, and in the media. Communication theory explains how and why people construct meaning, how theories explain fact patterns, and what constitutes an appropriate test of a theory.
Students will appreciate some of the strange and wonderful things humans do as we create and interpret symbols. Prerequisite: COM102 or permission of professor.

**COM 355**  
**MASS MEDIA**  
Spring Semester. Alternate years. 3 semester hours. Cross-listed as ENG355. 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 the media to better manage its influence in their personal and professional lives.

**COM 402**  
**INTERVIEWING**  
Spring Semester. Alternate Years. 3 semester hours. Interviewing is a skill with both theoretical and practical applications. 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. Prerequisite: COM102 or permission of professor.

**COM 404**  
**RHETORIC OF PROTEST AND DISSENT**  
Spring Semester. Alternate Years. 3 semester hours. Throughout history, people have protested injustice, prejudice, inhumanity, and colonialism. They have often 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.

**COM 447**  
**COMMUNICATION PROJECTS**  
On Demand. 1 semester hour. Special research in communication studies.

**COM 450**  
**INTERNSHIP**  
On Demand. 1-15 semester hours. This course is a guided work experience in an already 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 the internship must be a learning experience that is connected with the professional communication degree. Contract required. Prerequisites: junior status and permission of professor.

**COM 457**  
**INTERCOLLEGIATE FORENSICS**  
Fall and Spring Semesters. 1 semester hour. For students actively preparing for, and/or participating in, individual intercollegiate events or debate. Pass/no pass grading.

**COM 490**  
**SEMINAR IN COMMUNICATION**  
Spring Semester. Alternate Years. 3 semester hours. On the basis of communication is the creation of community. 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 or postmodern organizational ethics. For example, in the free speech seminar, students analyze the origins and controversies surrounding free speech and the implication free speech has for self-government.

**Computer Science and Information Technology**

*K. Stuart Smith, Assistant Professor*  
*Aaron Benner, Instructor*  
*Richard Mouldin, Visiting Assistant Professor*

**COMPUTER SCIENCE**  
The computer science program combines the analysis of computing systems with the art and science of creating computer software. The program combines professional competence in computer science with a breadth of knowledge and the development of written and oral communication skills, the trademarks of a liberal arts education. Small classes encourage significant student-faculty interaction.
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. Students will typically specialize in an appropriate area of computer science via electives in their junior and senior years. The major features tracks in computer applications (CA), computer systems (CS), and software engineering (SE).

All computer science majors are required to obtain professional experience by completing an internship related to computer science (CSC450) or through approved independent study. Additionally, all computer science majors are required to participate in a team-oriented, open-ended research experience by completing the computer science research seminar (CSC490).

**Program Objectives:** A graduate of the computer science program will be able to

- demonstrate competence by creating a variety of problem-solving algorithms for moderately complex problems;
- demonstrate competence by implementing algorithms in at least two modern programming languages;
- explain the software development process and the software life cycle and demonstrate competence in the use of procedures and common tools for software development maintenance;
- explain the organization of the computer science discipline and be able to demonstrate proficiency in at least one area of specialization (computer applications, computer systems or software engineering);
- explain the organization of the hardware and software subsystems that comprise modern computing systems and provide analysis of how system organization impacts the selection of algorithms and programming languages; and
- point to significant personal experiences as a member of a team developing substantial non-academic computer-related projects.

**INFORMATION TECHNOLOGY**

The information technology program prepares graduates for careers in system analysis, system and network administration, and database-oriented applications. Students pursuing a major in information technology will receive instruction and lab-based experience that focuses on the practical considerations of configuring, maintaining, and administering the hardware and software systems in use by commercial, industrial, and governmental organizations.

The information technology program is coordinated with the computer science program; students majoring in information technology will develop important proficiencies in basic programming skills by taking a minimum of 12 credits of computer science courses. Additionally, information technology majors will be prepared to obtain significant industry-recognized certifications.

Information technology program majors will obtain job-relevant experience through the completion of an internship (IT450) or through approved independent study. Additionally, students may gain practical experience through opportunities working for Academic Computing Services, which is responsible for maintaining the campus computing environment.

**See Also:** Option in Management Information Systems (MIS) under the business administration and economics program.

**Major in Computer Science:** A minimum of 38 semester hours in computer science is required: CSC114, CSC130, CSC131, CSC132, CSC133, CSC247, CSC251, CSC255, CSC330, CSC352, CSC353, CSC450 or CSC499, CSC490, plus 9 semester hours of applicable electives in computer science. A minimum grade of 2.00 is required in each of the non-elective computer science courses. In addition, students must successfully complete MAT111.

**NOTES:**

- CSC course numbers lower than 110 are not applicable towards completion of the CSC major.
- IT315 may be used as a CSC elective.
- Each semester hour earned in CSC352 and CSC353 must represent the study of a unique programming language.
- Substitution of CSC499 for CSC450 requires the permission of the department.
- Only three credits of CSC450 will be applied to the major area.

**Major in Information Technology:** A minimum of 45 semester hours in computer science and information technology courses: CSC114, CSC130, CSC131, CSC132, CSC133, CSC251, IT240, IT271,
IT272, IT273, IT274, IT310; IT450 or IT499; IT477; plus 9 semester hours of applicable electives in information technology. A minimum grade of 2.0 is required for each of the non-elective courses. Substitution of IT499 for IT450 requires the permission of the department.

Minor in Computer Science: A minimum of 21 semester hours in computer science is required: CSC130, CSC131, CSC132, CSC133, CSC247, CSC251, CSC352 or CSC353, plus 6 semester hours of upper-division computer science coursework.

Minor in Information Technology: A minimum of 19 semester hours including CSC130, CSC132, IT240, IT271, IT272, plus 6 credit hours of upper-division information technology coursework.

Computer Science

CSC 100
INTRODUCTION TO COMPUTERS
On Demand. 3 semester hours.
A survey of computers, including the evolution of computers, information representation, overview of hardware, word processing, spreadsheets, and the Internet.

CSC 114
COMPUTER ETHICS
Fall Semester. 1 semester hour.
This course, required of all computer science majors, provides an overview of current ethical issues in the computing industry, including privacy, fair use, free speech, and intellectual property. Topics also include weighing individual rights against corporate and societal rights and developing ethical evaluation processes.

CSC 130
FUNDAMENTALS OF PROGRAMMING I
Fall and Spring Semesters. 3 semester hours.
Introduces the student 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. A weekly laboratory will allow the student to gain experience and familiarity with the tools and mechanical procedures necessary for success in computer programming. Corequisite: CSC132 (lab).

CSC 131
FUNDAMENTALS OF PROGRAMMING II
Fall and Spring Semesters. 3 semester hours.
Builds upon the foundation established in CSC130 by developing more complex abstract data types and exploring fundamental data structures and elementary concepts of computer organization. Other topics covered include the use of libraries, file-based input/output, operating system interfaces, and application programming interfaces. Laboratory time will be less structured than in CSC130 and will introduce students to development tools such as simple scripting, “make” files, and debuggers. Corequisite: CSC133 (lab). Prerequisite: CSC130.

CSC 132
FUNDAMENTALS OF PROGRAMMING LAB I
Fall and Spring Semesters. 1 semester hour.
Co-requisite: CSC130 (lecture).

CSC 133
FUNDAMENTALS OF PROGRAMMING LAB II
Fall and Spring Semesters. 1 semester hour.
Co-requisite: CSC131 (lecture).

CSC 247
ANALYSIS, ALGORITHMS AND DESIGN PATTERNS
Fall Semester. 3 semester hours.
This course provides a study of the techniques used to analyze program requirements and introduces students to algorithms and design patterns widely used in the implementation of programmed solutions. Students will apply analysis techniques to de-construct complex problem requirements into components in order to realize programming solutions. Prerequisite: CSC131.

CSC 251
DATA STRUCTURES
Fall Semester. 3 semester hours.
Data structures and their characteristic algorithms are studied including analysis of performance predictions inherent to the various data organizations. Lists, stacks, queues, trees, and elementary graphs are considered. Prerequisite: CSC131.
CSC 255
ASSEMBLER LANGUAGE PROGRAMMING
Spring Semester. 3 semester hours.
This course studies the representation of data and programs in the fundamental language of the computer. Students will learn how numeric and non-numeric data are represented in the processor and memory of modern computers and be led to understand how the basic operations familiar in high-level languages are implemented by the instructions executed by the processor. Successful programming in assembler language requires great attention to detail. Prerequisite: CSC131.

CSC 256
DISCRETE STRUCTURES AND COMPUTABILITY
Every 3rd Semester. 3 semester hours.
The mathematical and theoretical underpinnings of the science of computing will be explored. Students will be introduced to Boolean algebra and elementary logic and its application to computer implementation and algorithm development. This course explores the development of computer science from its roots in mathematical models of computation, such as Turing machines and finite state machines, and introduces formal treatments of elementary grammars, program correctness, among others. Prerequisites: CSC131 and either MAT110 or MAT111.

CSC 258
TOPICS IN COMPUTER SCIENCE
On Demand. 1-3 semester hours.
This occasional offering will study special areas of computer science not otherwise covered in the curriculum. Prerequisite: permission of professor.

CSC 309
COMPUTER ORGANIZATION AND ARCHITECTURE
Every 3rd Semester. 3 semester hours. Emphasis CS.
Modern computers represent a powerful synergy of hardware and software as reflected in deeply nested layers of abstraction. This course studies computer architecture and organization as it is described by the hardware-software interfaces. The organization of processors to support the fundamental execution cycle will be explored. Additional topics include computer arithmetic, performance factors, and specialized architectures. Prerequisite: CSC255 or permission of professor.

CSC 320
NUMERICAL METHODS
On Demand. 3 semester hours. Emphasis CA.
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. Prerequisites: CSC131 and MAT112.

CSC 326
GRAPHICS
On Demand. 3 semester hours. Emphasis CA.
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.

CSC 330
COMPUTER NETWORKING
Every 3rd Semester. 3 semester hours.
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 implementation of the technologies as they are discussed. Prerequisite: CSC247 or CSC251.

CSC 335
DATABASE SYSTEMS
Every 3rd Semester. 3 semester hours. Emphasis CA/CS.
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 diagrams, relational models, transaction processing, concurrency, and query processing. Prerequisite: CSC251.
CSC 352
PROGRAMMING LANGUAGE STUDY I
Fall Semester. 1 semester hour.
This course provides instruction in and experience using computer programming languages. Students will be 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 five semester credits of programming language study towards completion of the CSC major requirements. Prerequisite: CSC251; or CSC131 and permission of professor.

CSC 353
PROGRAMMING LANGUAGE STUDY II
Spring Semester. 1 semester hour.
This course provides instruction in and experience using computer programming languages. Students will be 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 five semester credits of programming language study towards completion of the CSC major requirements. Prerequisite: CSC251; or CSC131 and permission of professor.

CSC 360
PROGRAMMING PARADIGMS
Every 3rd Semester. 3 semester hours. Emphasis CA/CS.
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 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: CSC251; or CSC131 and permission of professor.

CSC 376
OBJECT-ORIENTED ANALYSIS AND DESIGN
On Demand. 3 semester hours. Emphasis SE.
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: CSC247.

CSC 410
OPERATING SYSTEMS
Every 3rd Semester. 3 semester hours. Emphasis CS.
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: CSC247.

CSC 411
PROJECT MANAGEMENT
On Demand. 3 semester hours. Emphasis SE.
This course will study techniques for organizing and managing large software projects. Topics will include risk assessment and mitigation, project inception, life cycles and organization, traditional team responsibilities, task scheduling and management, reviews and post-mortem analysis, and quality assurance processes. Prerequisite: permission of professor.

CSC 431
PARALLEL AND DISTRIBUTED COMPUTING
On Demand. 3 semester hours. Emphasis CA/CS.
Extremely High Performance Computing (HPC) depends upon specialized computer architectures and non-traditional programming paradigms. This course will explore topics in HPC including vector and array processors, distributed networks, and massively parallel architectures, from the hardware, operating system, and application software perspectives. Prerequisite: CSC309 or CSC360.

CSC 433
COMPILER CONSTRUCTION
Every 3rd Semester. 3 semester hours. Emphasis CS.
This course considers algorithms and data structures used in the 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. Prerequisites: CSC360 and permission of professor.
CSC 450
INTERNERSHIP

CSC 490
COMPUTER SCIENCE RESEARCH SEMINAR
Fall and Spring Semesters. 3 semester hours.
Students will participate in on-going research and development projects. Areas of focus will vary as projects are undertaken and evolve. Participants will be expected to be active contributors to research and development teams operating under the guidance of faculty sponsors and will be required to make both formal and informational presentations based on team progress as well as participate in critical project reviews. Students should expect to contribute at least nine hours each week toward team efforts. This course may be taken twice. Prerequisite: senior status or permission of professor.

CSC 499
INDEPENDENT STUDY
On Demand. 1-3 semester hours.
Under the guidance of a faculty sponsor, students may study facets of computer science not available for study through other CS courses. Independent study is an ideal vehicle for students wishing to explore interdisciplinary applications of computer-related technology. Prerequisite: permission of professor.

Information Technology

IT 240
SYSTEM TROUBLESHOOTING
Spring Semester. 3 semester hours.
Students learn to install, maintain, diagnose, and repair computer systems.

IT 271
NETWORKING I
Fall Semester. 3 semester hours.
This is the first semester of a four-semester networking sequence where students focus on networking fundamentals, including computer hardware and software, electricity, networking terminology, protocols, LANs and WANs, the Open System Interconnection (OSI) model, ethernet, and Internet Protocol (IP) addressing.

IT 272
NETWORKING II
Spring Semester. 3 semester hours.
The second semester of a four-semester networking sequence. Students develop a knowledge of routers and routing, including router user interfaces, components and configurations IOS versions, naming and software backup, TCP/IP Protocol Suite, IP addressing and subnetting, and interior routing protocols (RIP, IGRP). Prerequisite: IT271.

IT 273
NETWORKING III
Fall Semester. 3 semester hours.
The third semester of a four-semester networking sequence. This class covers switching basics and intermediate routing competencies, including switching and VLANs, spanning-tree protocol, routing and routing protocols, Access Control Lists (ACLs) and network documentation, security, and troubleshooting. Prerequisite: IT272.

IT 274
NETWORKING IV
Spring Semester. 3 semester hours.
The fourth semester of four-semester networking sequence. This course focuses on WAN technology basics, including WAN devices; encapsulation formats; PPP components; session establishment and authentication; ISDN uses, services, and configurations; and frame relay technology and configuration. Prerequisite: IT273.

IT 301
DATABASE MANAGEMENT
Fall Semester. 3 semester hours.
This course will introduce the student to the concepts and implementation of modern database systems, including relational and object-oriented databases. Topics include entity relationship models, transaction processing, concurrency, and query processing.

IT 310
MODERN OPERATING SYSTEMS
Fall Semester. 3 semester hours.
A course comparing and contrasting a selection of widely used operating systems. Issues such as initial
setup, maintenance, scalability, and Total Cost of Ownership (TCO) are explored.

**IT 315**  
**WEB PROGRAMMING AND DESIGN**  
Spring Semester. 3 semester hours.  
This course introduces HTML and other associated tools used to design and create web pages. It is designed for those who want to learn about web content creation, gain experience in designing and creating web pages using HTML, and explore the role of web content in the information technology industry.

**IT 336**  
**WEB CONTENT MANAGEMENT**  
Spring Semester. 3 semester hours.  
This course introduces the administration of web servers such as Apache and IIS. Students also learn about the design/integration of server-side application modules (e.g., CGI, PHP, SQL), access controls/permissions, and performance measuring. Prerequisite: IT310.

**IT 401**  
**ADVANCED DATABASE MANAGEMENT**  
Fall semester. 3 semester hours.  
A continuation of IT301, this course explores the installation, use, and management of modern database servers. Topics include object management, server organization, efficiency, record logging, log analysis, and server security. Prerequisite: IT301.

**IT 409**  
**SYSTEMS ADMINISTRATION**  
Spring Semester. 3 semester hours.  
A course covering the major components of operating systems, such as job and resource management in both multiprogramming and multiprocessor systems. Additionally, an introduction to an operating system is provided including basic commands, the role of the system administrator, the file system, and security user management. Prerequisite: IT310.

**IT 442**  
**SYSTEMS SECURITY**  
Spring Semester. 3 semester hours.  
This course explores threat analysis; event logging and analysis; auditing; developing security policy; intrusion prevention; detection and response; designing, developing and testing security response procedures; and integrating hardware and software solutions. Prerequisite: IT401.

**IT 477**  
**SYSTEMS ANALYSIS I**  
Fall Semester. 3 semester hours.  
An introduction to systems thinking and systems analysis. Strategic planning will examine evolving technologies and their impacts on all aspects of the business. Prerequisite: IT310.

**IT 478**  
**SYSTEMS ANALYSIS II**  
Spring Semester. 3 semester hours.  
A continuation of IT477. An in-depth examination of everyday topics that confront a systems analyst. These include an examination of the systems development life cycle and how it impacts projects, tools used to facilitate good systems design, the principles behind sound systems documentation and user acceptance testing. Logical data modeling and how to analyze software requirements. Prerequisite: IT477.

**IT 490**  
**SEMINAR IN INFORMATION TECHNOLOGY**  
On Demand. 1 - 3 semester hours.  
An examination of current issues in information technology using case studies and emerging technologies.

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**Earth and Environmental Sciences**

*Jennifer Lyman, Professor*  
*Gary Thompson, Professor, O. A. and Esther T. Seager Chair in Geology*  
*Douglas McFarlane, Assistant Professor*  
*Derek Sjostrom, Assistant Professor*

Students in the Earth and environmental sciences program will
1. develop an understanding of the Earth’s systems and the processes affecting environmental change;
2. investigate the causes of and possible solutions to important environmental problems;
3. demonstrate skills to work in the environmental and geological fields; and
4. observe critically, think objectively and logically, and read, write, and speak as a scientist.

The Earth and environmental sciences include broad courses of study which require knowledge of several scientific disciplines. The program is interdisciplinary, integrative, and emphasizes field studies, internships, and problem-solving through research projects that involve the natural resources of south-central Montana. Students will use the Yellowstone River and the Pryor and Beartooth Mountains as their outdoor laboratory to study natural systems and to address regional environmental issues.

Core Courses: The following courses are required of all majors in the program, with the exception of the geology major: GEO101, ENV115, ENV351, BIO112, CHM101 and CHM102, PHS101 or PHS201, and MAT111 or MAT210. Each student should consult his or her advisor in order to design a program that fits the student’s educational and employment goals. A student’s course and field work may lead to a semester-long internship with an environmental firm, a government agency, a natural resource company, or a related business.

Major in Environmental Science: The major in environmental science differs from conventional majors because most of the core and elective courses are in a variety of departments. Many of these courses fulfill general education requirements. Students are encouraged to include calculus and professional writing as part of their course of study.

In addition to the core requirements, 30 semester hours are required, including ENV225; ENV314 or ENV325; ENV345; ENV450; BIO315; IDS475; two of ECO354, HST365, PHR304, and POL313; and one (3 semester hours) elective ENV course or other course approved by the program advisor.

Major in Geology: A minimum of 40 semester hours in geology, and a minimum of 26 semester hours in other sciences and mathematics are required, including GEO101, GEO102, GEO208, GEO301, GEO302, GEO311, GEO350, GEO483, BIO112, CHM101, MAT111, MAT112, PHS101 and PHS102 or PHS201 and PHS202, and two (6 semester hours) electives in geology or other courses approved by the program advisor.

Major in Environmental Geology: In addition to the core requirements, a minimum of 32 semester hours in earth and environmental sciences are required, including GEO102, GEO208, GEO302, GEO310, GEO316 or ENV415, GEO320, ENV321, and ENV345.

Major in Environmental Biology: In addition to the core requirements, a minimum of 33 semester hours in earth and environmental sciences and biology are required, including BIO315, ENV325, ENV340, ENV345, and ECO354. In addition, twelve credits among BIO250, BIO311, BIO317, GEO301, and ENV207/307 are required, along with one course among ENV314, ENV330, and BIO410.

Major in Environmental Chemistry: In addition to the core requirements, a minimum of 32 semester hours in earth and environmental sciences and in chemistry are required, including GEO316, ENV340, CHM201, CHM202, CHM300, CHM301, and CHM401.

Minor in Environmental Science: A minimum of 18 semester hours is required, including ENV115, BIO112, CHM101, and MAT110.

Minor in Geology: A minimum of 20 semester hours in geology is required, including GEO101, GEO102, and GEO208. GEO100 does not apply to the minor.

Environmental Science

ENV 115
ENVIRONMENTAL SCIENCE
Fall Semester. 4 semester hours.
Conveys an understanding of how the natural world works through studying the principles of ecology and the relationships among and among organisms and between organisms and their environments. Uses world and regional issues to analyze environmental problems involving air, water, and land issues. Local professional people working to improve the quality of the environment in the Yellowstone region will speak about their projects. Field trips will illustrate environmental science at work. May include visits to a water treatment facility, the landfill, the oil refineries, and other municipal and regional facilities. Includes time for problem-solving and case-study sessions.

ENV 207
FIELD BOTANY/SPRING WILDFLOWERS
Summer Semester. 3 semester hours.
Introduction to the evolutionary relationships of land
plants and their classification. The class will emphasize plant identification based on use of taxonomic keys and will focus on angiosperm species in the Yellowstone River watershed, particularly the mixed prairie habitats and the southern Pryor Mountains where flowers will be in bloom in May.

ENV 225
ENERGY, POLLUTION, AND THE ENVIRONMENT
Spring Semester. Alternate Years. 3 semester hours.
An introduction to the concepts of energy and power and the physical laws that control their transformations. This understanding will be applied to analyze human use of energy. Issues considered will 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.

ENV 230
ECOLOGY OF THE RAINFOREST
Spring Semester. 3 semester hours.
Introduces the concepts of population and community ecology through studies of rain forest geography, flora, and fauna. Students will learn to read scientific papers which focus on rain forest plants and animals and the complex interactions of these organisms in rain forest environments. Students will discuss environmental issues such as sustainable agriculture, global cycling of air and water, and conservation biology as those issues pertain to rain forest issues today. Open to sophomores, juniors, and seniors.

ENV 307
FIELD BOTANY/SPRING WILDFLOWERS
Summer Semester. 3 semester hours.
Introduction to the evolutionary relationships of land plants and their classification. The class will emphasize plant identification based on use of taxonomic keys and will focus on angiosperm species in the Yellowstone River watershed, particularly the mixed grass prairie habitats and the southern Pryor Mountains where flowers will be in bloom in May.

ENV 314
RANGE ECOLOGY
Fall Semester. Alternate Years. 4 semester hours.
The study of mixed grass prairies of the West and an introduction to ecological concepts which apply to that area. Includes historical and current land uses and explanations of ecosystem responses to change, and methods for maintaining natural prairie habitats, using prairies as range lands, and determining ecological conditions and trends on rangelands. Identification of common prairie plant species and their importance for both wildlife and domestic animals. Three lectures and one two-hour laboratory per week. Prerequisites: BIO112, CHM101, CHM102.

ENV 321
INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS
Fall Semester. 4 semester hours.
Introduction to the theory and practical application of Geographic Information Systems (GIS). Topics include fundamentals of cartography, GIS data types, and data input. GIS database structure and management, analysis of spatially distributed data, and report preparations using GIS. Three lectures and one two-hour laboratory. No auditors allowed. Prerequisite: permission of professor.

ENV 325
WETLANDS AND RIPARIAN ECOLOGY
Fall Semester. Alternate Years. 4 semester hours.
Analyzes the biology and chemistry of wetlands. Discusses wetland functions and values as well as the legally acceptable methods for determining wetland boundaries. The lab will present various protocols for analyzing wetland plant communities and will include a field study of a wetland in the Billings community. Characterizes the plant community as well as using soil, hydrology, and wetland vegetation to identify wetland boundaries. Discusses the ecology of rivers and the differences in hydrological processes of rivers and wetlands. Three lectures and one two-hour laboratory per week. Prerequisites: BIO112, CHM101, CHM102.

ENV 330
WILDLIFE MANAGEMENT AND CONSERVATION
Spring Semester. 3 semester hours.
Theoretical and applied conservation and management practices of animal populations. Prerequisites: BIO112, ENV115.
ENV 340
ENVIRONMENTAL CHEMISTRY
On Demand. 4 semester hours.
Trains students in widely used analytical techniques for investigating water, soil, air, and toxicological environmental problems. Students will study a number of local environmental chemistry situations that will challenge the students’ problem-solving capabilities and require that they learn and use precise laboratory and field protocols in order to find solutions.
Prerequisites: CHM101, CHM102, CHM300.

ENV 345
SOIL SCIENCE
Fall Semester. Alternate Years. 4 semester hours.
Introduction to the physical, chemical, and biological properties of soils; soil formation and classification; nutrient cycling; and land resource planning and protection. Field trips. Three lectures and one two-hour laboratory per week. Prerequisite: CHM101 or concurrently.

ENV 351
MONTANA FIELD STUDIES
Summer Semester. 4 semester hours.
A three-week intensive field experience providing an interdisciplinary approach to exploring and solving scientific problems. Additional field fee required.
Prerequisites: GEO101, ENV115, BIO112.

ENV 401
APPLICATION OF GEOGRAPHIC INFORMATION SYSTEMS
On Demand. 3 semester hours.
Application of GIS to produce a professional report using real world data in cooperation with a business, an industry, or a governmental agency. Software and projects vary from year to year. Three two-hour laboratories. No auditors allowed. Prerequisites: ENV321 and permission of professor.

ENV 436
YELLOWSTONE ECOSYSTEMS STUDIES
On Demand. 4 semester hours.
An in-depth study of the natural resource policies and establishment of ecological research priorities at Yellowstone National Park. Students will read relevant texts and scientific studies about the Park and will participate in two field trips that focus on different aspects of ongoing scientific research in Yellowstone. Three lectures and field trips. Open to sophomores, juniors, and seniors. Additional fee required for field trips.

ENV 450
INTERNSHIP
On Demand. 1-15 semester hours.
To be arranged with instructor. Contract required.

Geology

GEO 100
OUR GEOLOGIC ENVIRONMENT
Fall and Spring Semesters. 3 semester hours.
An introduction to geology from the perspective of how humans use Earth materials and how humans affect and are affected by geologic phenomena. Topics include mineral resources, fossil fuels, soils, and hazards such as volcanic eruptions, earthquakes, landslides, flooding, pollution, and waste disposal. Does not apply to majors in Earth and environmental sciences.

GEO 101
PHYSICAL GEOLOGY
Fall and Spring Semesters. 4 semester hours.
Introduction to the science of Earth materials and Earth systems. Includes study of minerals, rocks, volcanoes, rock deformation and metamorphism, weathering, erosion, earthquakes, and plate tectonics. Three lectures and one two-hour laboratory per week. Field trip.

GEO 102
HISTORICAL GEOLOGY
Spring Semester. 4 semester hours.
Introduction to interpreting Earth history and a survey of the origin and evolution of Earth’s systems and its life. Laboratory interpretation of fossils, geologic maps, and stratigraphic sections. Three lectures and one two-hour laboratory period per week. Field trip.
Prerequisite: GEO101 or permission of professor.

GEO 208
IGNEOUS AND METAMORPHIC MINERALOGY AND PETROLOGY
Spring Semester. 5 semester hours.
The study of igneous and metamorphic rocks: their classification, interpretation, and mode of origin. Mineralogy presented in the context of igneous and
metamorphic systems. Laboratory emphasis on the identification of minerals and rocks in hand specimens. Three lectures and two two-hour laboratory periods per week. Prerequisites: GEO101, CHM101.

GEO 301
PALEONTOLOGY
Fall Semester. 4 semester hours.
Explores the morphology, classification, paleoecology, biogeography and biostratigraphy of important fossil groups. Fossil collecting trips. Three lectures and one two-hour laboratory per week. Prerequisites: GEO102 or BIO112 and permission of professor.

GEO 302
STRATIGRAPHY AND SEDIMENTOLOGY
Spring Semester. 4 semester hours.
Introduction to the properties, classification, depositional environments, and diagenesis of sediments and sedimentary rocks and their stratigraphic nomenclature and correlation. Occasional field trips. Three lectures and one two-hour laboratory per week. Prerequisite: GEO102.

GEO 310
GEOMORPHOLOGY
Spring Semester. 4 semester hours.
A study of landforms and the processes that create them. The effects of tectonism, volcanism, erosion, and deposition by rivers, glaciers, wind, waves, and mass wasting. Field trips. Three lectures and one two-hour laboratory per week. Prerequisite: GEO101.

GEO 311
STRUCTURAL GEOLOGY
Fall Semester. 4 semester hours.
The study of rocks deformed in the Earth’s crust. Classification and characterization of faults, folds, foliations, lineations, and boudinage. Emphasis on methods used to interpret deformation structures, including the stereographic projection; the equal area projection; and the construction of accurate cross sections, true profiles, and structure contours. Three lectures and one two-hour laboratory per week. Prerequisites: GEO101 and GEO208, or permission of professor.

GEO 316
GEOCHEMISTRY
On Demand. 3 semester hours.
Chemistry of inorganic, natural, and contaminated aqueous systems. Topics include the thermodynamics of aqueous systems, oxidation-reduction reactions, phase diagrams, and stable isotope geochemistry. Prerequisites: GEO101, CHM102; MAT111 recommended.

GEO 320
GEOL OGY RESOURCES AND THE ENVIRONMENT
Spring Semester. Alternate Years. 4 semester hours.
Study of the geologic processes that produce mineral, coal, crude oil and natural gas deposits and the environmental issues associated with their extraction and use. Emphasis on regional deposits with field trips to appropriate sites. Three lectures and field trips. Prerequisite: GEO101.

GEO 350
FIELD GEOLOGY
Summer Semester. 6 semester hours.
Geologic mapping methods, including the use of aerial photographs, the Brunton compass, the GPS, the plane table, and the alidade. Preparation and interpretation of geologic maps and cross sections, and the measurement and interpretation of stratigraphic sections. Five-week summer field camp. Additional field fee required. Prerequisites: GEO102, GEO208, GEO302 and GEO311.

GEO 412
ORE DEPOSITS
On Demand. 3 semester hours.
The study of major ore-forming systems, including alteration and metasomatism associated with mineralization, geothermometry, fluid inclusions, stable isotopes, and the systematics of radioactive decay. Emphasis on the processes of ore deposition, tectonic setting of ore deposits, and the evolution of ore-forming systems over geologic time. Three lectures per week. Prerequisites: GEO208 and CHM101.

GEO 415
HYDROGEOLOGY
On Demand. 4 semester hours.
The study of the qualitative and quantitative
relationships among geologic materials, geologic processes, and water. Includes precipitation, evaportranspiration, runoff, streamflow, aquifers, groundwater flow, wells, water chemistry, water quality, and contamination. Three lectures and one two-hour laboratory per week. Prerequisites: GEO101 and MAT111, or permission of professor.

**GEO 450**  
**INTERNSHIP**  
On Demand. 1-15 semester hours.  
To be arranged with instructor. Contract required.

**GEO 483**  
**THESES IN GEOLOGY**  
Fall and Spring Semesters. 3 semester hours.  
Student research in geology. Requires formal written paper, oral presentation, and approval by faculty committee. Prerequisite: senior status in geology major.

**Education**

*Paul Roper, Professor*  
*Birdeena Dapples, Associate Professor*  
*Shelley Ellis, Associate Professor*  
*Suneetha de Silva, Associate Professor*

To address the needs of diverse student populations in the public schools, the teacher education program at Rocky Mountain College uses a three-part model (preparation, action, and reflection) to prepare teachers to become life-long reflective practitioners. The goal of the teacher education program is to provide students with the knowledge, skills, and experience necessary to be successful as beginning teachers in public elementary, middle, and secondary schools today and become master teachers in schools of the future. To achieve this goal, we provide students with a strong liberal arts background, in-depth study in the fields in which they plan to teach, professional knowledge and skills essential for effective teaching, and extensive school-based experience in a variety of school settings.

**Objectives:** The teacher education program will help students develop

1. knowledge of the process of human growth, development, and learning as well as the ability to apply this knowledge to the teaching of all students;
2. knowledge of professional literature, current trends, issues, research, and research methods, including such topics as a. task analysis, planning, and adoption of various teaching methods to meet individual needs;
   b. identification, development, and use of a variety of resource materials to develop concepts;
   c. familiarity with standardized tests and measures as well as traditional and alternative assessment procedures, including follow-up studies;
   d. awareness of curriculum development procedures including scope and sequence; and
   e. a variety of media and technology appropriate to teaching;
3. the ability to teach effectively, work ethically and constructively with students, and articulate the nature and purposes of the curricula to professional peers, teachers, administrators, parents, and other concerned persons and organizations;
4. an understanding of the foundations underlying the development of education in the United States;
5. an understanding of all educational aspects of the school, including its purpose, administrative organization, financial aspects, board functions, and operations;
6. the ability and willingness to reflectively analyze teaching so that teaching skills continually improve;
7. the ability to teach listening, speaking, reading, and writing skills appropriate to the student level and content of the subject being taught;
8. knowledge of the legal aspects of teaching in Montana schools, including identifying and reporting child abuse; professional ethics, conduct, rights, and responsibilities; and the structure and financial basis of the Montana school system; and
9. knowledge of, and skill in, a variety of effective methods of classroom management.

**Career Paths:** Completion of the program provides a strong base for students who wish to pursue advanced professional training in specialized educational programs such as special education, guidance and counseling, and school administration.
Admission to the Teacher Education Program: To be admitted to the teacher education program, students must do the following:
1. successfully complete, or be in the current process of successfully completing, ENG119 or an equivalent writing course; EDC202, PSY205 and PSY206, and EDC 302, earning at least a grade of “C” in each; 
2. successfully complete, or be in the current process of successfully completing, the first of two required field practica (EDC291E or EDC291S) at the elementary, middle, or secondary school level;
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;
5. have an overall minimum GPA of 2.25 with a minimum GPA of 2.50 in the major field and in the education courses;

Although it not a requirement, it is strongly recommended that applicants pass all three sections (reading, writing, and mathematics) of the Pre-Professional Skills Test (PPST) or CBT (the computer-based version of the PPST) examination.

Students admitted to the teacher education program must continue to meet minimum program standards or they will be dropped from the program. These standards include maintaining the required GPA (see #5 above) and demonstrating responsible attitudes toward learning in all college work (as indicated by attendance, assigned work, cooperative group projects, and non-course learning opportunities).

Admission to Student Teaching: To be admitted to student teaching, students must meet the following requirements:
1. admission to the teacher education program;
2. senior status with a minimum overall GPA of 2.25 and a GPA of 2.50 in major, minor, and professional education courses;
3. completion of all required coursework except student teaching and its related seminar;
4. major departmental approval; and
5. 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. RMC students must receive prior written approval from the teacher education committee to take teacher education courses elsewhere.

Transfer Students: Students transferring into the education program must meet all RMC requirements for transfer students, and must meet the following prior to student teaching:
1. Elementary education majors must complete a minimum of 12 semester hours in the RMC teacher education program.
2. K-12 and Secondary education majors must complete a minimum of 12 semester hours at RMC in their major and at least 2 courses (5-6 semester hours) in the RMC teacher education program. These include EDC402: Contemporary Issues in Curriculum, and/or EDC420: Methods for Teaching Content Courses in Secondary Education, and EDC291S: Field Practicum.

Students with Degrees from Other Colleges:
1. must complete a full semester of work (minimum of 15 semester hours) at RMC including at least 2 courses (5-6 semester hours) in the teacher education program before student teaching;
2. must meet all RMC requirements for student teaching; and
3. must meet all RMC 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). Prerequisite courses for entry into the elementary teacher education program are ENG119, PSY205, PSY206, EDC202, EDC291E, and EDC302. Required courses in the elementary education program are EDC325, EDC330, EDC336, EDC341, EDC343, EDC344, EDC349, EDC350, EDC355, EDC356, EDC360, EDC370, EDC391E, EDC402, EDC410, EDC453, and EDC490E. Other related required courses are ART121, HST211 or HST212, MAT103, MAT104, and SOC101 or SOC242.

Major in Secondary Education: A major in secondary education prepares students for teaching at the secondary school level (5-12). Prerequisite courses for entry into the secondary teacher education program are ENG119, PSY205, PSY206, EDC202, EDC291S,
and EDC302. Required courses for the secondary education major are EDC325, EDC330, EDC336, EDC353, EDC370, EDC391S, EDC402, EDC410, EDC420, EDC452 and EDC490S.

Students must complete an education major in one of the following fields: biology, chemistry, English, history, history/political science, mathematics, psychology, social studies broadfield*, or sociology/anthropology. (*See course listing under the “Interdisciplinary Studies” in this section.)

Students must complete an education minor in one of the following fields: biology, chemistry, economics, history, mathematics, physics, political science, psychology, sociology/anthropology, or theatre arts. In some cases, an extended single-field education major of at least 45 semester hours may be substituted for the major-plus-minor plan. (Social studies broadfield and mathematics are single-field majors.)

Secondary education students should carefully study departmental requirements listed under the various departments in the catalog, since in many cases, requirements for teaching certification are different from general majors or minors.

**Major in K-12 Education:** To become a teacher of art, music, or physical education and health in Montana, the student must be prepared to teach at all levels, K-12. Students must complete an education major in one of the following teaching fields: art, music, or physical education and health; or students may complete an education minor in art or music.

Prerequisite courses for entry into the K-12 teacher education program are ENG119, PSY205, PSY206, EDC202, EDC291S or EDC291E, and EDC302.

Required courses for the K-12 education major are EDC325, EDC330, EDC336, EDC353, EDC370, EDC391S or 391E, EDC402, EDC410, EDC420, EDC454, and EDC490S.

*Note: Music education majors are exempt from EDC 420.*

*Note: K-12 majors must have one elementary-level practicum experience and one secondary-level practicum experience.*

**EDC 202 FOUNDATIONS OF EDUCATION**

Fall and Spring Semesters. 2 semester hours.

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 classroom, 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. Prerequisite: ENG119 or equivalent (ENG119 may be taken concurrently).

**EDC 291E FIELD PRACTICUM: ELEMENTARY SCHOOL**

Fall and Spring Semesters. 1 semester hour.

This course provides practical field experience in an elementary 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 status is required.

**EDC 291S FIELD PRACTICUM: SECONDARY AND/OR K-12 SCHOOL**

Fall and Spring Semesters. 1 semester hour. Cross-listed as MUS291S.

This course provides practical field experience in an elementary, 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 status is required.

**EDC 302 EDUCATIONAL PSYCHOLOGY**

Fall and Spring Semesters. 3 semester hours. Cross-listed as PSY302.

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. Prerequisites: PSY205 and PSY206.
EDC 325
STANDARDS, INSTRUCTION, AND STUDENT ASSESSMENT
Fall Semester. 3 semester hours.
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 assessment will be explored. Reliability and validity of some assessment tools will be examined, and methods of item analysis discussed. Prerequisite: MAT100 or equivalent and admission to teacher education program.

EDC 330
INTRODUCTION TO TEACHING EXCEPTIONAL LEARNERS
Fall Semester. 3 semester hours.
This course introduces students to the characteristics, legal requirements, programming, and service requirements for exceptional learners, including gifted and talented students, in schools. Categories of disabilities addressed will be those outlined within PL94-142. Emphasis will be given to education within the least restrictive environment. Prerequisite: admission to teacher education program.

EDC 336
EDUCATIONAL TECHNOLOGY
Spring Semester. 2 semester hours.
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. Course will culminate in a comprehensive, student-designed multimedia presentation. Prerequisite: admission to the teacher education program.

EDC 341
METHODS AND MATERIALS: TEACHING HEALTH ENHANCEMENT
Fall Semester. 4 semester hours.
This course provides competencies for the delivery and evaluation of planned learning programs for elementary school children. Content will include knowledge of physiological and psychological development of elementary-age children relating to curriculum development and implementation. Includes experience with children in a school setting. Content, scope, and sequence of an appropriate health curriculum will be studied. Multimedia-based learning will be examined. Prerequisite: admission to teacher education program.

EDC 343
METHODS AND MATERIALS: TEACHING ART, GRADES K-8
Spring Semester. 3 semester hours.
This course focuses on the methods and materials for teaching art in the elementary and secondary schools. Prerequisites: ART121; admission to the teacher education program.

EDC 344
METHODS AND MATERIALS: GENERAL MUSIC IN THE ELEMENTARY SCHOOL
Spring Semester. 2 semester hours.
This course focuses on the methods and materials for teaching music in the elementary school. Prerequisites: a course in elements of music or permission of professor; admission to the teacher education program.

EDC 349
METHODS AND MATERIALS: TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL
Spring Semester. 3 semester hours.
This course focuses on the methods and materials for teaching mathematics in the elementary school based on the National Council on Teachers of Math Standards. Prerequisites: MAT103, MAT104, and admission to the teacher education program.

EDC 350
METHODS AND MATERIALS: TEACHING READING AND LANGUAGE ARTS IN THE ELEMENTARY SCHOOL
Fall Semester. 4 semester hours.
This course provides an integrated approach to the language arts curriculum of listening, speaking, reading, and writing, an approach which corresponds to the actual development of language skills. Methods of teaching the language arts; the use of books, other
written materials, and audio-visual materials; the use of computer programs; methods of assessing and evaluating achievement; and ways of organizing the curriculum forms a major part of the course. A further element of the course is increased familiarity with literature appropriate for elementary school children. Prerequisite: admission to teacher education program.

EDC 353
TEACHING READING AND WRITING IN THE CONTENT AREAS
Spring semester. 2 semester hours.
This course will provide K-12 music, art, and physical education pre-service teachers as well as secondary-level pre-service 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 will be addressed, and the writing process and the use of literature in the content classroom will be examined. Students will also evaluate content-based materials for their reading difficulty level and appropriateness. Students will develop and deliver practical lessons that address content area literacy and text comprehension. Prerequisites: EDC302 and admission to the teacher education program.

EDC 355
METHODS AND MATERIALS: TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL
Fall Semester. 3 semester hours.
This course provides an integrated approach to the social studies K-8 curriculum in the 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, the use of audio-visual materials, and the use of computer programs are emphasized. The scope and sequence of various curricula will be examined. Prerequisites: SOC101 or SOC242, and admission to teacher education program.

EDC 356
METHODS AND MATERIALS: TEACHING SCIENCE IN THE ELEMENTARY SCHOOL
Fall Semester. 3 Semester hours.
This course is designed to provide an integrated approach to the science K-8 curriculum in the 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.

EDC 360
CHILDREN’S LITERATURE
Spring Semester. 3 semester hours.
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.

EDC 370
ISSUES CONCERNING STUDENT HEALTH AND SAFETY
Spring Semester. 3 semester hours.
This course focuses on the recognition of issues that obstruct student learning and on referral to appropriate services that can assist the student, since teachers must help ensure a healthy and safe learning environment for their students. Topics to be studied are classroom safety, communicable diseases, drug abuse, first aid and CPR, nutritional deficiencies, physical and emotional abuse, psychological disorders, and school violence. Prerequisite: admission to the teacher education program.

EDC 391E
FIELD PRACTICUM: ELEMENTARY SCHOOL
Fall and Spring Semesters. 1 semester hour.
This course provides junior-level field experience in an elementary classroom. Each credit hour requires 40 hours of experience. Students are required to take an active part in classroom activities. Students must complete the practicum during the fall or spring semester over a period of between 10-14 weeks. Prerequisites: admission to teacher education program and junior status.
**EDC 391**  
**FIELD PRACTICUM: SECONDARY SCHOOL**  
Fall and Spring Semesters. 1 semester hour.  
This practicum provides field experience in a secondary (5-12) classroom for students majoring in biology, chemistry, English, history, history/political science, mathematics, psychology, social studies broadfield, or sociology/anthropology. Each credit hour requires 40 hours of experience; students will be expected to take an appropriately active part in classroom activities. 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 and junior status.

**EDC 402**  
**CONTEMPORARY ISSUES IN CURRICULUM**  
Fall and Spring Semesters. 3 semester hours.  
This course blends both theory and practice to provide a comprehensive overview of the foundations, principles, and issues of curriculum. The philosophical, historical, psychological, and theoretical foundations of curriculum will be explored as well as present issues, trends, and future directions. An integrated approach to studying curriculum and instruction, grades K-12, will emphasize planning, classroom communication, student motivation, positive classroom management, instructional methods, individualizing instruction, teaching culturally diverse students, and professionalism as it applies to the job of the teacher. Prerequisite: admission to the teacher education program.

**EDC 410**  
**CLASSROOM MANAGEMENT**  
Fall and Spring Semesters. 2 semester hours.  
In this course, the fundamental skills of classroom management will be reviewed. Students will be presented with a systematic approach to classroom management and will learn how to manage their class as a social system. 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.

**EDC 420**  
**METHODS AND MATERIALS: TEACHING CONTENT COURSES IN SECONDARY EDUCATION**  
Fall Semester. 3 semester hours.  
English, biology, chemistry, history, psychology, theater arts, history/political science, art, math, physics, physical education/health enhancement, sociology/anthropology, and social studies broadfield education majors will design and execute unit plans and lesson plans specific to their content areas; will review and practice a variety of instructional strategies; will examine the scope and sequence of various content-area curricula; will address hot topics in education and the challenges middle and high school teachers face; will explore content area-specific reading diagnosis, assessment, and remediation strategies; will become familiar with methods of teaching study skills strategies; will apply the 6-Traits Writing Project’s diagnostic and evaluative techniques across the content areas; and will acquire expertise in building and maintaining parent/family/guardian relationships. Prerequisite: admission to the teacher education program. Corequisite: IDS421 (for history, history/political science, sociology/anthropology, and social studies broadfield majors) or IDS422 (for science-area majors) or the appropriate content area 420 methods and materials course (for all other majors; see catalog for specific content area course listing).

**EDC 452**  
**STUDENT TEACHING IN THE SECONDARY SCHOOL (GRADES 5-12)**  
Fall and Spring Semesters. 9 semester hours.  
This course requires a minimum of 12 weeks of practice teaching, but student teachers are encouraged to extend their assignment according to the host school’s calendar whenever possible (15-16 week semester). In addition all secondary content area student teachers are required to do an additional one-week elementary/middle school observation. Students must pay a student teaching fee in addition to regular college expenses. Pre-requisite: admission to student teaching (see introductory section for requirements).

**EDC 453**  
**STUDENT TEACHING IN THE ELEMENTARY SCHOOL**  
Fall and Spring Semesters. 9 semester hours.  
This course involves student teaching experience at the
elementary school level for a minimum of 12 weeks. Regular conferences with cooperating teachers and college supervisors are mandatory. Students must pay a student teaching fee in addition to regular college expenses. Prerequisite: admission to student teaching (see introductory section for requirements).

EDC 454
STUDENT TEACHING (GRADES K-12)
Fall and Spring Semesters. 9 semester hours.
This course requires a minimum of sixteen weeks (8 weeks elementary, 8 weeks secondary) of student teaching experience at both the elementary and secondary levels for K-12 physical education and health, art, and music education majors. Students must pay a student teaching fee in addition to regular college expenses. Prerequisite: admission to student teaching (see introductory section for requirements).

EDC 490E
SEMINAR: ELEMENTARY EDUCATION
Fall and Spring Semesters. 3 semester hours.
In this course, selected topics such as classroom management and professional development in elementary education will be discussed at regularly scheduled meetings. Preparation of a professional portfolio, creation of a credential file, and applying for Montana licensure will be addressed. Participation in this seminar is mandatory for all elementary education student teachers. Corequisite: EDC453.

EDC 490S
SEMINAR: SECONDARY/K-12 EDUCATION
Fall and Spring Semesters. 3 semester hours.
In this course, selected topics in secondary and K-12 education will be addressed. Preparation of a professional portfolio, creation of a credential file, and a variety of other classroom management and professional development issues will be covered. Participation in this seminar is mandatory for all secondary and K-12 students. Corequisite: EDC452 or EDC454.

IDS 421
METHODS AND MATERIALS: TEACHING SOCIAL SCIENCE IN THE SECONDARY SCHOOL
Fall Semester. 2 semester hours.
This course emphasizes the teaching of economics, history, political science, psychology, social science broadfield, and sociology/anthropology at the secondary (5-12) level. Methods of teaching these subjects, reviewing texts for content appropriate to various grade levels, and the use of technology in the classroom will constitute major parts of the course. Special 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 cross-listed under the Interdisciplinary Studies section of the catalog and is the capstone course for the social studies broadfield education major. Corequisite: EDC420.

IDS 422
METHODS AND MATERIALS: TEACHING NATURAL SCIENCE IN THE SECONDARY SCHOOL
Fall Semester. 2 semester hours.
This course emphasizes the teaching of biology and chemistry at the secondary 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 cross-listed under the Interdisciplinary Studies section of the catalog and is the capstone course for the biology or chemistry education major. Corequisite: EDC420.

English

Linaya Leaf, Professor
Andrew Kirk, Associate Professor
Jacquee Dundas, Instructor
Shirley Witt, Instructor
Sean O’Grady, Visiting Assistant Professor
Jim Rains, Visiting Assistant Professor

The English program hopes to instill in students a lifelong passion for reading and writing. Students immerse themselves in important works of the Western and non-Western traditions. Whether analyzing themes, characters, and styles or synthesizing ideas into new and unique forms of oral and written communication, students develop a fluency with language. They work as hard at generating theses and supporting them with
evidence and their own critical thinking as they do at finding their own voices in poetry, fiction, and the writing of plays.

Students discover that each word has energy and that their own words matter. They learn to view texts as a bridge to self-discovery, interdisciplinary learning, and knowledge of other cultures, as well as a basis from which to discuss ethical issues. Through the revision process, students practice the art of listening to and giving positive criticism, using relevant evaluation to improve their work.

The English program firmly connects to the liberal arts mission of Rocky Mountain College. Students are encouraged to supplement their knowledge of texts through courses in other disciplines such as history, psychology, foreign languages and literatures, and philosophy. To read with real comprehension, students discover they must challenge themselves to incorporate multiple strands of learning into their own disciplinary analysis.

English as a Second Language: ESL courses and tutorials are provided on the basis of need. If a sufficient number of students requires a course, a class will be provided. Otherwise, individual sessions can be arranged for one or two credits addressing speaking, listening, reading, writing, vocabulary, grammar, note-taking, or combinations of these skills.

Major in Literary Studies: A minimum of 30 semester hours, including ENG252; ENG242 or ENG253; ENG231; one of the following four courses: ENG233, ENG247, ENG270, ENG291; two of the following three courses: ENG371, ENG372, ENG373; two of the following three courses: ENG381, ENG382, ENG383; ENG471; and ENG490, “Seminar in Literary Studies.”

Major in English Education: A minimum of 33 semester hours, including ENG231; ENG252; ENG291; ENG319; ENG355; ENG359; two of the following three courses: ENG371, ENG372, ENG373; two of the following three courses: ENG381, ENG382, ENG383; ENG471; and ENG420. Students must also take COM101. 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 Professional Communications (cross-listed with Communication Studies): A minimum of 33 semester hours, including COM102, COM250, COM306, COM310, COM402, COM490, ENG251 or ENG451, ENG319, ENG325, ENG/COM355, and ENG365.

Minor in Literary Studies: A minimum of 18 semester hours, including ENG252 or ENG471; two of the following three courses: ENG371, ENG372, ENG373; two of the following three courses: ENG381, ENG382, ENG383; and electives in English.

Minor in Writing: A minimum of 18 semester hours, including ENG251, ENG319, ENG325, ENG365, ENG451, and ENG490, “Seminar in Writing.”

Minor in English Education: This minor is currently under consideration by the Office of Public Instruction. Visit with your advisor or an English faculty member for more information.

ENG 118
BASIC COMPOSITION
Fall Semester. 3 semester hours. This course requires frequent practice in expository writing to foster clarity of organization and expression in the development of ideas. Particular emphasis is directed toward mastering the component parts of an essay, English grammar and usage, and vocabulary skills. May not be taken to satisfy general education requirements.

ENG 119
FIRST-YEAR WRITING
Fall and Spring Semesters. 3 semester hours. This course provides an introduction to college writing, with an emphasis on multicultural literacy. Students read and discuss texts that contain a multicultural focus, learn that writing is a process, experiment with academic and personal prose, practice incorporating research into their prose, and develop grammatical and stylistic competence. Required of all students entering as freshmen.

ENG 215
CREATIVITY
Fall Semester. Alternate Years. 3 semester hours. Cross-listed as ART215 or MUS215. This course approaches creativity as a skill to develop, not as some magical gift bestowed on a few select people. The last three weeks of the course will be devoted to a large-scale project in the 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 date. Through the activities in this course, students will bring a higher degree of creativity to their daily lives.

ENG 219
CRITICAL READING AND EVALUATIVE WRITING
Fall and Spring Semesters. 3 semester hours.
This course teaches students to analyze texts and create effective writing based on their insights. 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. Prerequisite: ENG119.

ENG 231
LITERARY CRITICISM
Spring Semester. Alternate Years. 3 semester hours.
This course introduces students to current controversies in literary criticism. The class discusses approaches to literary analysis such as deconstruction, cultural criticism, and post-colonialism. 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.

ENG 233
AMERICAN NATURE LITERATURE
On Demand. 3 semester hours.
This course immerses students in a central American literary tradition: literature which reflects upon nature. Students become familiar with writers such as William Bartram, Henry David Thoreau, John Muir, Aldo Leopold, Edward Abbey, Barry Lopez, Annie Dillard, Gary Snyder, Terry Tempest Williams, and Rick Bass. The course also considers the historical, political, and cultural influences on this tradition.

ENG 242
MODERN DRAMATIC LITERATURE
Fall Semester. Alternate Years. 3 semester hours.
Cross-listed as THR242.
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.

ENG 247
WAR LITERATURE
On Demand. 3 semester hours.
Students explore how diverse writers through time have represented the tragedy, trauma, and glory of war. The course covers fictional and nonfictional works from various historical and literary periods as well as genres such as epic and lyric poetry, romance, and drama.

ENG 251
IMAGINATIVE WRITING
Fall Semester. 3 semester hours.
This introduction to imaginative writing explores poetry and short fiction. The class 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, devices of sound, meter, traditional structure, and innovations. Elements of fiction emphasized include setting, character development, dialogue, plot, and conflict. Prerequisite: ENG119.

ENG 252
POETRY
Fall Semester. 3 semester hours.
An introduction to the genre of poetry with special attention to close reading of selected poems. Students discover their own poetic preferences as they study such poetic devices as meter, stanza form, diction, and sound effects. The class also explores poetic subgenres such as the epic, the sonnet, and the ballad.

ENG 253
CLASSICAL DRAMATIC LITERATURE
Fall Semester. Alternate Years. 3 semester hours.
Cross-listed as THR253.
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.

ENG 258
TOPICS IN LANGUAGE AND LITERATURE
On Demand. 3 semester hours.
Content varies, including comparative literature topics, problems in literature topics, and language topics.

**ENG 270**  
**LITERATURE OF MONTANA AND THE AMERICAN WEST**  
On Demand. 3 semester hours.  
This course examines literature written by and about people living in Montana and the western United States, including Native Americans, women, and immigrants.

**ENG 291**  
**CONTEMPORARY WORLD FICTION**  
Spring Semester. 3 semester hours.  
Introduces students to recent prose fiction, with special attention paid to non-Western and non-American works. This course encourages cross-cultural understanding.

**ENG 315**  
**CREATIVITY**  
Fall Semester. Alternate Years. 3 semester hours.  
Cross-listed as ART315 or MUS315.  
This course approaches creativity as a skill to develop, not as some magical gift bestowed on a few select people. The last three weeks of the course will be devoted to a large-scale project in the 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 date. Through the activities in this course, students will bring a higher degree of creativity to their daily lives.

**ENG 319**  
**CREATIVE NONFICTION WRITING**  
Fall and Spring Semesters. 3 semester hours.  
Students study examples of creative nonfiction and practice writing their own. They also gain experience incorporating research into their prose. Prerequisite: ENG119.

**ENG 325**  
**PROFESSIONAL WRITING**  
Fall Semester. 3 semester hours.  
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 or permission of professor.

**ENG 344**  
**WRITING ABOUT THE ENVIRONMENT**  
On Demand. 3 semester hours.  
An introduction to nonfiction writing that incorporates environmental knowledge from a range of disciplines. Students develop their own writing projects and respond to each other’s writing in a workshop setting. Emphasis is on matters of style, on defining audience and purpose, and on incorporating source material.

**ENG 355**  
**MASS MEDIA**  
Spring Semester. Alternate Years. 3 semester hours.  
Cross-listed as COM355.  
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 is to be human. People must be able to understand the power of the media to better manage its influence in their personal and professional lives.

**ENG 358**  
**TOPICS IN LANGUAGE AND LITERATURE**  
On Demand. 3 semester hours.  
Content varies, including comparative literature topics, problems in literature topics, and language topics.

**ENG 359**  
**INTRODUCTION TO LANGUAGE**  
Fall Semester. Alternate Years. 3 semester hours.  
An exploration of language in human life. Topics to be covered include analyzing and describing languages, language and thought, language and culture, first and second language acquisition, and language change. Tools and techniques for linguistic analysis are used to examine phonetics, phonology, morphology, syntax, semantics, and pragmatics.

**ENG 365**  
**JOURNALISM**  
Fall Semester. 3 semester hours.  
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.

ENG 370
RELIGION AND LITERATURE
On Demand. 3 semester hours. Cross-listed as PHR370. 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.

ENG 371
BRITISH LITERATURE, 900-1616
Fall Semester. 3 semester hours. This course surveys British literature beginning with Anglo-Saxon works like Beowulf and continuing through Middle English literature, including selections from Chaucer and Medieval drama and romance, and terminating with the Jacobean literature of the Early Modern (or Renaissance) period, with writers such as Spenser, Marlowe, and Shakespeare. In addition to studying works within their historical, literary, and critical contexts, students also examine how these works reflect the development of the English language.

ENG 372
BRITISH LITERATURE, 1616-1830
Spring Semester. 3 semester hours. This course examines British literature beginning with Early Modern works from the seventeenth century, continuing with the Restoration and Neoclassical periods, and ending with the Romantics and their precursors, covering writers such as Donne, Ben Jonson, Bacon, Milton, Behn, Congreve, Pope, Swift, Johnson, Gray, Blake, Wordsworth, Byron, Keats, and Mary Shelley. Students read representative works within their historical, literary, and critical contexts. They also analyze the development of the English language.

ENG 373
BRITISH LITERATURE, 1830-1940
On Demand. 3 semester hours. This course provides an overview of British literature beginning with the Victorians and continuing through the Modernist literature of the early twentieth century. The course features writers such as Tennyson, the Brownings, the Brontë sisters, Arnold, Christina Rossetti, Hopkins, Wilde, Hardy, Yeats, Woolf, Joyce, and Eliot. Students read representative works within their historical, literary, and critical contexts.

ENG 381
AMERICAN LITERATURE, 1607-1861
Fall Semester. 3 semester hours. This course surveys major works from the Puritan, Enlightenment, and Romantic periods. The course typically examines writers such as Franklin, Edwards, Emerson, Hawthorne, Poe, Whitman, Melville, Dickinson, Douglass, and Stowe. Students apply their study of literary criticism to a national literature. They also consider the social and regional variations in American English through study of this literature.

ENG 382
AMERICAN LITERATURE, 1861-1940
Spring Semester. 3 semester hours. This course investigates major works from the Realist and Modernist eras. The course typically discusses writers such as Twain, James, Crane, Dreiser, London, Chopin, Wharton, Hemingway, Fitzgerald, Cather, Steinbeck, Hughes, and Stevens. Students apply their study of literary criticism to a national literature. Social and regional variations in American English are considered through the literature. Students also examine the development of the novel as a genre.

ENG 383
AMERICAN AND BRITISH LITERATURE, 1940-PRESENT
On Demand. 3 semester hours. This course provides an overview of major writings from the post-Modernist period. Students pay special attention to experimental, multicultural, and post-Colonial writing. The class typically considers writers such as Pynchon, Pym, Albee, Mamet, Pinter, Erdrich, Momaday, Morrison, Rushdie, and Walcott. Students also examine the development of the novel as a genre.

ENG 420
METHODS AND MATERIALS: TEACHING ENGLISH IN THE SECONDARY SCHOOL
Fall Semester. Alternate Years. 3 semester hours. This seminar 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 course strongly emphasizes practical methodologies and is the capstone course for the English Education major. Corequisite: EDC420.

ENG 451
ADVANCED IMAGINATIVE WRITING
Spring Semester. Alternate Years. 3 semester hours.
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 ENG251. 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, or submission of writing samples and permission of professor.

ENG 471
SHAKESPEARE
Spring Semester. 3 semester hours. Cross-listed as THR471.
Advanced examination of representative Elizabethan and Shakespearean plays. This is a writing-intensive course.

ENG 490
SEMINAR IN LITERARY STUDIES
Spring Semester. Alternate Years. 3 semester hours.
Intensive work 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. This writing-intensive course is the capstone for the Literary Studies major.

ENG 490
SEMINAR IN WRITING
Fall Semester. Alternate Years. 3 semester hours.
This seminar 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. The goal of the class is to have students own and share the meaning of their lives.

Environmental Studies

Bernard Rose, Professor
Timothy Lehman, Professor
David Strong, Associate Professor

The environmental studies major at Rocky Mountain College offers students an opportunity to understand humans’ relationship with the natural environment. What are the various ways humans experience nature? How have humans responded to the natural world in different times and places? What influences the way humans respond to nature, and how might this change in the future?

Environmental studies (as distinct from environmental science) is based in the humanities and the social sciences, emphasizing the political, economic, and social organization of human cultures in relation to the natural world as well as the creative, artistic, and experiential response to natural and built environments. The major is characterized by

• a focus on communities and cultures in relationship to the environment;
• interdisciplinary approaches;
• an emphasis on the practical, including field courses and internships;
• creative and critical thinking that spans disciplinary boundaries;
• a special focus on our region, from Yellowstone National Park and its surrounding mountains to the prairies of central and eastern Montana; and
• community involvement.

Major in Environmental Studies: A minimum of 42 semester hours. Required core courses include ECO354, ENV225, ENG233, ENG270, POL313, HST365, PHR304, IDS490, and at least 3 credits of internship. Two natural science ecology courses are required from the following list: ENV115, ENV230, ENV314, ENV325, ENV330, and/or ENV436. In addition, students must take nine credits in elective courses, which should be chosen in
consultation with the program advisor. Electives include ART170, ART271, ART322, COM404, ENG344, ART/ENG/MUS 215/315, and/or PHR378. NOTE: course descriptions can be found under the individual department headings.

**Equestrian Studies**

*Scott Neuman, Director*
*Marilyn Randall, Associate Professor*
*Dr. Ray Randall, Assistant Professor*
*Chris Brown, Instructor*

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, using technology, or marketing. Combined with Rocky’s traditional liberal arts program, students are provided a variety of experiences promoting life-long 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.

Requirements for the bachelor of science degree are a minimum of 124 semester hours of course work, with 38 - 52 credits in equestrian studies and 83 credits from the liberal arts core and elective classes.

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 “Tuition and Fees” in the catalog’s “Financial Assistance” section).

**Major in Equestrian Studies:** Students will choose one of five options:

**EQUITATION AND TRAINING OPTION:** A minimum of 41 semester hours is required, including EQS101, EQS102, EQS121, EQS122, EQS201, EQS225, EQS226; either EQS231 and EQS232 or EQS251 and EQS252; EQS300, EQS302, EQS321, EQS322, and EQS402. Students in this major are strongly recommended to take EQS401, EQS421, and EQS422 as electives.

**EQUINE BUSINESS OPTION:** A minimum of 38 semester hours is required, including EQS101, EQS102, EQS121, EQS122, EQS201, EQS302, EQS402, BSA201, BSA202, ECO202, and 9 hours of electives in business administration and economics. Recommended electives are EQS231 and EQS232.

**EQUINE WRITING AND PUBLICATIONS OPTION:** A minimum of 41 semester hours is required, including EQS101, EQS102, EQS121, EQS122, EQS201, EQS302, EQS402, ENG251 or ENG451, COM355, ENG319, ENG365, COM402, ENG325, and ENG490 (“Seminar in Writing”). Recommended electives are EQS231 and EQS232.

**RIDING INSTRUCTOR OPTION:** A minimum of 44 semester hours is required including EQS101, EQS102,EQS121, EQS122, EQS201, EQSS302, EQS402, ENG251 or ENG451, COM355, ENG319, ENG365, COM402, ENG325, and ENG490 (“Seminar in Writing”).

**THERAPEUTIC RIDING OPTION:** A minimum of 52 semester hours is required, including EQS100, EQS101, EQS121, EQS122; either EQS251 and EQS252 or EQS231 and EQS232; EQS201, EQS209, EQS302, EQS309, EQS401, EQS415, EQS450 (6 semester hours), EDC330, PEH122, PEH204, and PEH315. In addition, a minor in psychology must be completed.

**Minor in Equestrian Studies:** A minimum of 21 semester hours is required, including EQS101, EQS102, EQS121, EQS122, EQS201, and EQS302. An additional three hours of course work must be chosen from the following upper-division courses: EQS300 and EQS402.
EQS 100
VOLUNTEER EXPERIENCE IN THERAPEUTIC RIDING
Fall Semester. 1 semester hour.
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.

EQS 101
INTRODUCTION TO EQUESTRIAN STUDIES
Fall Semester. 3 semester hours
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.

EQS 102
EQUINE CONFORMATION AND SELECTION
Spring Semester. 3 semester hours
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.

EQS 121
FUNDAMENTAL HORSEMANSHIP I
Fall Semester. 3 semester hours
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.

EQS 122
FUNDAMENTAL HORSEMANSHIP II
Spring Semester. 3 semester hours
This class is a continuation of EQS121 and builds on those fundamental 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.

EQS 201
EQUINE PREVENTIVE MEDICINE
Fall Semester. 3 semester hours.
Students study common equine health practices including parasitology, diseases, pre-purchase examinations, lameness, first aid measures, and the establishment of horse health programs.

EQS 209
PRINCIPLES OF THERAPEUTIC RIDING
Spring Semester. 3 semester hours.
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.

EQS 214
EQUINE JUDGING I
Fall Semester. 3 semester hours.
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 class as students learn to develop oral reasons for defending class placement.

EQS 225
BASIC COLT TRAINING I
Fall Semester. 3 semester hours.
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. Prerequisites: sophomore status and EQS122.

EQS 226
BASIC COLT TRAINING II
Spring Semester. 3 semester hours.
This course, a continuation of EQS225, will cover the assessment of a colt’s capabilities and begin advanced training techniques. Prerequisites: sophomore status and EQS225.
EQUINE STUDIES (EQS)

EQS 231
HUNTER SEAT EQUITATION I
Fall Semester. 3 semester hours.
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.

EQS 232
HUNTER SEAT EQUITATION II
Spring Semester. 3 semester hours.
This course is a continuation of EQS231. By furthering the skills necessary to show a hunter over fences, students gain in strength, balance, and control. Prerequisite: EQS231.

EQS 251
FUNDAMENTAL HORSEMANSHIP III
Fall Semester. 3 semester hours.
This course offers a continuation of the skills developed in fundamental horsemanship I and II with emphasis upon 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. Much 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.

EQS 252
FUNDAMENTAL HORSEMANSHIP IV
Spring Semester. 3 semester hours.
This course is a continuation of EQS251 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.

EQS 300
REPRODUCTION AND GROWTH
Spring Semester. 3 semester hours.
The student studies the anatomy and physiology of the reproduction of the horse along with endocrinology, the principles of artificial insemination, embryo transfer, genetics, breeding systems, and the care and management of breeding stock.

EQS 302
NUTRITION, STABLE AND RANCH MANAGEMENT
Fall Semester. 3 semester hours.
The student masters the fundamental principles of equine nutrition, learning the management skills necessary to run a successful stable, including establishing a budget and record keeping.

EQS 309
ADVANCED THERAPEUTIC RIDING INSTRUCTOR TRAINING
Fall Semester. 2 semester hours.
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 contra-indications 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. Prerequisites: PEH122, EQS100, EQS209.

EQS 310
EQUINE JOURNALISM
Fall semester. 3 semester hours.
The student writes articles suitable for publication in equine publications. Attention is also given to page and ad layout and ad copy.

EQS 315
INTERMEDIATE EQUINE JUDGING
Fall Semester. 3 semester hours.
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.
EQS 321
ADVANCED HORSE TRAINING I
On Demand. 3 semester hours.
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. Prerequisites: junior status, EQS121, EQS122, EQS225, EQS226, EQS231, and EQS232 or permission of professor.

EQS 322
ADVANCED HORSE TRAINING II
On Demand. 3 semester hours.
This course is a continuation of EQS321 with a higher level of skill and expertise employed. Prerequisite: junior status or permission of professor.

EQS 400
ADVANCED REPRODUCTION
Spring Semester. 3 semester hours.
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. Prerequisite: EQS300.

EQS 401
TECHNIQUES OF TEACHING RIDING
Fall Semester. 3 semester hours.
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: EQS232.

EQS 402
EQUINE MARKETING
Spring Semester. 3 semester hours.
This class is an introduction to the marketing process involved in the horse industry. The student examines consumer buying behavior, marketing channels, and promotional techniques and their role in the marketing process.

EQS 405
ADVANCED TECHNIQUES OF TEACHING RIDING
Spring Semester. 3 semester hours.
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 class. Prerequisite: EQS401.

EQS 410
THERAPEUTIC RIDING, ISSUES AND ETHICS
Spring Semester. 2 credits.
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 501c3’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.

EQS 415
ADVANCED EQUINE JUDGING
Fall Semester. 3 semester hours.
Students review the principles learned in EQS214 and EQS315 and broaden their knowledge of competition rules. They further develop their oral and thinking skills for the presentation of reasons at the intercollegiate competitive level. There may be opportunities for intercollegiate judge competition. Prerequisites: EQS214 and EQS315.

EQS 421
ADVANCED HORSEMANSHIP I
On Demand. 3 semester hours.
For the furthing 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 status.
EQA 422
ADVANCED HORSEMANSHIP II
On Demand. 3 semester hours.
This course is a continuation of EQA421. Prerequisite: EQA421.

EQA 450
INTERNSHIPS
On Demand. 1-15 semester hours.
See Advisor for details. Contract required.

Foreign Languages and Literatures

Angie Cormier, Visiting Instructor

The foreign languages and literatures program introduces students to other languages and cultures. Learning another language within the context of its culture promotes the understanding and acceptance of others and their culture. It also helps us to understand our own culture, both individually and as a group. The program uses the four basic language acquisition skills of reading, writing, listening, and speaking in order to learn at each successive level. In addition to being instrumental and vital to learning another language, using and honing these skills also helps to advance 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. French and Greek courses will be offered on demand. Opportunities to study other languages are periodically available.

Minor in Spanish: A minimum of 18 semester hours is required, six of which must be upper-division hours.

French

FRN 131
FRENCH I
On Demand. 4 semester hours.
This is a beginning French course. Emphasis is on basic language structure, pronunciation, and simple conversation.

FRN 132
FRENCH II
On Demand. 4 semester hours.
Continuing development of basic skills with an introduction to the historical and cultural background of France.

FRN 231
FRENCH CONVERSATION AND COMPOSITION
On Demand. 3 semester hours.
Selected readings on aspects of French arts and sciences with continued practice in writing and conversation. Prerequisite: FRN132 or appropriate background in French.

FRN 321
FRENCH LITERATURE FROM MIDDLE AGES TO END OF 17TH CENTURY
On Demand. 3 semester hours.
Prerequisite: FRN231 or appropriate background in French.

FRN 322
FRENCH LITERATURE FROM THE 18TH CENTURY TO THE 20TH CENTURY
On Demand. 3 semester hours.
Prerequisite: FRN231 or appropriate background in French.

Greek

GRK 131
INTRODUCTION TO 5TH CENTURY B.C.E. ATTIC GREEK I
On Demand. 4 semester hours.
Students will learn the ancient Greek language of Thuydides, Plato, Herodotus, Homer, and the 5th-
century dramatists. This course is also excellent preparation for students who wish to read New Testament (Koine) Greek.

GRK 132
INTRODUCTION TO 5TH CENTURY B.C.E. ATTIC GREEK II
On Demand. 4 semester hours.
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.

Spanish

SPN 131
BEGINNING SPANISH I
Fall Semester. 4 semester hours.
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.

SPN 132
BEGINNING SPANISH II
Spring Semester. 4 semester hours.
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 acquisition and cultural readings will increase. Greater emphasis is placed on oral and written expression. Prerequisite: SPN131 or permission of professor.

SPN 211
INTERMEDIATE SPANISH I
Fall Semester. 3 semester hours.
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 through intermediate-level reading and discussions. Emphasis is on intermediate-level grammar and reading proficiency. Prerequisite: SPN132 or permission of professor.

SPN 212
INTERMEDIATE SPANISH II
Spring Semester. 3 semester hours.
A continuation of SPN211. Continued review, expansion, and practice of basic vocabulary and grammatical structures, while introducing and practicing more advanced grammatical structures. 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 or permission of professor.

SPN 301
CULTURE AND LITERATURE OF SPAIN
Fall Semester. 3 semester hours.
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. Includes 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.

SPN 302
CULTURES AND LITERATURES OF LATIN AMERICA
Fall Semester. 3 semester hours.
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. Student will take part in classroom discussions as well as write analytical essays in Spanish.

SPN 450
INTERNSHIP
On Demand. 1-6 semester hours.
An on-site, hands-on language experience where students are paired with schools, churches, businesses, government, and/or NPO’s in the Billings area, the state(s) or abroad. Contract required. Contact and feedback will be maintained throughout the course.
SPN 490
SEMINAR
On Demand. 1-3 semester hours.
Selected topics in Spanish.

History and Political Science

Dale Zimdars, Professor
Timothy Lehman, Professor

The program in history and political science provides major and minor courses of study in a traditional history and political science curriculum, grounded in the liberal arts. These majors are viewed as preparation for graduate study or careers in teaching or public service. The program also provides a series of general courses aimed at delivering a strong base of historical, political, and cross-cultural concepts to non-majors. Most classes are moderate in size and offer ample opportunity for discussion and the development of critical thinking.

A majority of the program’s graduates either go on to professional school or to law school. Rocky’s program has graduated a law school dean, a legal professor, several history professors, a professional political consultant, and a chief administrative assistant at the American Embassy in London.

Major in History: A minimum of 30 semester hours is required, including two lower-division courses in world or European history, a combination of United States history courses chosen in consultation with the program, and HST490.

Major in History and Political Science: A minimum of 30 semester hours chosen in consultation with the program is required.

Major in History Education: A minimum of 30 semester hours chosen in consultation with a program advisor; at least 12 upper-division hours; either HST260/360 or HST311; either HST103 or HST104; two of the following: HST203, HST204, HST313; and two of the following: HST211, HST212, HST363, HST365; and HST490. In addition, the student must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog. See the description of this major under the “Interdisciplinary Studies” section of the catalog.

Major in History and Political Science Education: A minimum of 30 semester hours is required, including HST260 or HST311; two of the following: HST303, HST304, HST313; two of the following: HST211, HST212, HST363, HST365; HST490; POL101; POL203; POL401; and a 3-semester hour, upper-division political science elective. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog. Also see the description of the social science education (broadfield) major under “Interdisciplinary Studies” section of the catalog.

Minor in History: A minimum of 20 semester hours chosen in consultation with a program advisor is required.

Minor in Political Science: A minimum of 20 semester hours chosen in consultation with a program advisor is required.

Minor in History Education: A minimum of 20 semester hours chosen in consultation with a program advisor is required.

Minor in History Education: A minimum of 21 semester hours is required, including either HST260/360 or HST311, either HST103 or HST104, HST313, and HST490. Also required are two of the following: HST211, HST212, HST363, HST365. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog.

Minor in Political Science (Government) Education: A minimum of 21 semester hours is required, including POL101, POL203, POL401, 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.

History

HST 103
HISTORY OF CIVILIZATION I
Fall Semester. 3 semester hours.
Survey of the origin and development of world culture, with an emphasis on basic ideas. The relevant geography of each area will be covered.
HST 104
HISTORY OF CIVILIZATION II
Spring Semester. 3 semester hours.
Survey of the origin and development of world culture, with emphasis on basic ideas. Relevant geography of each area will be covered.

HST 203
REFORMATION, ABSOLUTISM, AND ENLIGHTENMENT: EUROPE, 1500-1789
Fall Semester. Alternate Years. 3 semester hours.
An analysis of the religious, political, and intellectual changes which structured early modern European society. The course attempts to show the relationship of the ideas and institutions of that period to the present time. Students may take either HST203 or HST303 for credit, but not both.

HST 204
THE AGE OF REVOLUTION: EUROPE, 1789-1914
Spring Semester. Alternate Years. 3 semester hours.
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. Students may take either HST204 or HST304 for credit, but not both.

HST 211
AMERICAN HISTORY I
Fall Semester. 3 semester hours.
A theme-focused approach to United States history through Reconstruction. Students will consider themes such as Indian-white relations, slavery and race, religion and society, republicanism, the origins of democracy, and the Civil War.

HST 212
AMERICAN HISTORY II
Spring Semester. 3 semester hours.
A theme-focused approach to United States history from the Gilded Age to the present. Students will consider such themes as industrialism, the rise of the state, America in the world, and reform movements.

HST 231
AVIATION HISTORY
Spring Semester. 3 semester hours. Cross-listed as AVS231.
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 warfare has advanced aviation technology. 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.

HST 260
HISTORY OF MONTANA
Spring Semester. Alternate Years. 3 semester hours.
A survey of the history of the state of Montana during the 19th and 20th centuries.

HST 303
REFORMATION, ABSOLUTISM, AND ENLIGHTENMENT: EUROPE, 1500-1789
Fall Semester. Alternate Years. 3 semester hours.
An analysis of the religious, political, and intellectual changes which structured early modern European society. The course attempts to show the relationship of the ideas and institutions of that period to the present time. Students may take either HST203 or HST303 for credit, but not both.

HST 304
THE AGE OF REVOLUTION: EUROPE, 1789-1914
Spring Semester. Alternate Years. 3 semester hours.
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 upon the European culture. Students may take either HST204 or HST304 for credit, but not both.

HST 311
HISTORY OF WESTERN AMERICA
Spring Semester. Alternate Years. 3 semester hours.
The development of the American West from the first explorations to the 20th century. Prerequisites: HST211, HST212, or permission of professor.

HST 313
EUROPE SINCE 1914
Fall Semester. Alternate Years. 3 semester hours.
Political, cultural, and economic developments in
Europe from the beginning of World War I to the present. Prerequisite: a lower-division course or permission of professor.

HST 315
LATIN AMERICAN HISTORY
Spring Semester. Alternate Years. 3 semester hours. Surveys the contact of cultures, independence, and economic and cultural perspectives.

HST 317
ARCHAEOLOGICAL DIG IN ISRAEL
Summer Semester. 6 semester hours. Students must register for 3 credits each in two of the departmental areas this course is offered in. Those areas are history, philosophy and religious thought, and sociology. Students are afforded the opportunity to participate in the archaeological excavations at Bethsaida in Israel for three weeks. They learn the techniques of excavating, recording, dating, and evaluating finds while exploring the history of the region through visits to other archaeological and Biblical sites and through daily lectures. Living accommodations are provided at an Israeli kibbutz where the students intermingle with kibbutzim, gain first-hand experience of kibbutz living, and interview people who have lived for many years in the kibbutz. Several days are spent in Jerusalem where the opportunity is provided to visit Christian sites. Students are taken to the University of Bethlehem to hear a lecture on the Arab situation and to interview Palestinian Arab students.

HST 320
HISTORY OF ENGLAND
Fall Semester. Alternate Years. 3 semester hours. Survey from Roman and Saxon times to the present day. Prerequisite: a lower-division history course or permission of professor.

HST 324
HISTORY OF RUSSIA
Fall Semester. Alternate Years. 3 semester hours. A survey of political, social, economic, and cultural developments from the founding of the Russian state to 1917. Prerequisite: a lower-division history course or permission of professor.

HST 325
HISTORY OF THE SOVIET UNION
Spring Semester. Alternate Years. 3 semester hours. The Bolshevik Revolution and problems of Soviet Russian history from 1917 to 1991. Prerequisite: a lower-division history course or permission of professor.

HST 327
HISTORY OF MODERN ASIA
On Demand. 3 semester hours. A study of the major trends in the political and cultural development of Asian countries. Emphasis will be on their contact with the West and the influence of imperialism, nationalism, and communism.

HST 360
HISTORY OF MONTANA
Spring Semester. Alternate Years. 3 semester hours. A survey of the history of the state of Montana during the 19th and 20th centuries. A research paper is required.

HST 363
RECENT AMERICA
Fall Semester. Alternate Years. 3 semester hours. 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.

HST 365
AMERICAN ENVIRONMENTAL HISTORY
Fall Semester. Alternate Years. 3 semester hours. 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. Prerequisite: HST211 or HST212.

HST 409
THE UNITED STATES IN WORLD AFFAIRS
Fall Semester. Alternate Years. 3 semester hours. Cross-listed as POL409. A study of United States foreign policy and diplomacy, including other American international activities, from 1917 to the present.
HST 490
SEMINAR
Fall Semester. 3 semester hours.
Methods and materials of research. Trends in historical research and writing. Survey of historiography and the philosophy of history. A major research paper is required.

Political Science

POL 101
INTRODUCTION TO POLITICAL SCIENCE
Fall Semester. 3 semester hours.
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.

POL 202
PUBLIC ADMINISTRATION
On Demand. 3 semester hours.
An examination of policy-making and policy execution in government agencies. Materials and discussions are drawn mainly from the national government of the United States, with an emphasis on the effectiveness of bureaucratic machinery in carrying out public policy. Problems of administrative organization, budget, personnel, public relations, administrative law and regulation, and internal and external political influences are covered. At least one case study is analyzed in detail.

POL 203
AMERICAN NATIONAL, STATE, AND LOCAL GOVERNMENT
Fall Semester. 3 semester hours.
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. Prerequisite: POL101 or permission of professor.

POL 301
INTERNATIONAL RELATIONS
Spring Semester. Alternate Years. 3 semester hours.
An analysis of the way nations deal 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 or permission of professor.

POL 307
MODERN FOREIGN GOVERNMENTS
Spring Semester. Alternate Years. 3 semester hours.
Present-day political systems of selected Western and non-Western nations. An introduction to the concepts which have proved most fruitful in demonstrating the comparability and unity of the political experience. Prerequisite: POL101 or permission of professor.

POL 313
ENVIRONMENTAL POLITICS
On Demand. 3 semester hours.
Political problems associated with the human impact on the natural environment: pollution, natural resources, public lands, land use, energy, cultural/social justice, and population.

POL 331
AMERICAN POLITICAL PARTY SYSTEM
Fall Semester. Alternate Years. 3 semester hours.
An inquiry into the dynamics of the American representative system, stressing the role of informal institutions in the control and management of governmental power and dealing with the organization, procedures, and actual operation of political parties and pressure groups in the governmental process. Prerequisites: POL101, POL203, or permission of professor.

POL 401
HISTORY OF POLITICAL AND SOCIAL THOUGHT
Spring Semester. Alternate Years. 3 semester hours.
The development of political and social ideas from ancient Greece to the present. Prerequisite: POL101 or permission of professor.
POL 409  
**THE UNITED STATES IN WORLD AFFAIRS**  
Fall Semester. Alternate Years. 3 semester hours.  
Cross-listed as HST409.  
A study of United States foreign policy and diplomacy, including other American international activities, from 1917 to the present.

**Honors Program**

*Fred Binckes, Director*  
*Susan McDaniel, Academic Vice President*  
*Kingston Nyamapfene, Scott Leadership Chair*

The honors program enhances the education of some of our finest students within an eight- to eleven-hour curriculum which allows them to work intensively with a single professor in the production of a project relevant to 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 into an historical or literary topic. Students in the sciences may wish to complete some original research. In all cases, students’ projects are started and completed with the approval and close support of the honors committee, 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 a substantial credential in their applications to graduate schools or employment opportunities.

The honors program at Rocky Mountain College is open to students who, by the second semester of their sophomore year, have achieved a GPA of 3.40 or better. Other interested students may petition the honors committee for admittance to the program. Active honors students enjoy reserved carrels in the library, freedom from academic overload fees, and an increase in scholarship assistance as they pursue chosen projects during their senior year.

**Spring Semester Sophomore Year:** Potential honors students are encouraged to take HON219, Honors Critical Reading and Evaluative Writing. This need not be the sole gateway to the program, but it has been the most praised and appreciated honors-specific course offered and is highly appropriate preparation for analytical writing in any realm.

**Fall Semester Junior Year:** Approved honors entrants who have been either self-nominated or faculty-nominated participate in HON309, Honors Proposal Development. A single leader will bring to this course faculty guests appropriate to the academic interests of the participants. Honors students will share development problems and other common concerns, producing honors proposals with research outlines and planning future course work germane to their proposals. Only well developed proposals will be approved for academic support and funding by the honors committee, although a student may submit a revised proposal during the semester.

**Spring Semester Junior Year:** Honors students with approved proposals will pursue courses relevant to their projects.

**Fall Semester Senior Year:** Honors students will 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 will complete their projects as well as participate in HON491, Project Presentation, a rehearsal seminar climaxing in the graded public presentation of the completed project.

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**HON 219**  
HONORS CRITICAL READING AND EVALUATIVE WRITING  
Fall Semester. 3 semester hours.  
A sophomore-level writing course that teaches students to analyze texts and compose effective essays based on their insights. Students will practice diverse modes of development, including definition, classification, comparison/contrast, analysis, and argumentation. Prerequisite: ENG119.

**HON 309**  
HONORS PROPOSAL DEVELOPMENT  
Fall Semester. 2 semester hours.  
Working with a class mentor who will secure the assistance of specialist mentors as needed, honors students will share development problems and other common concerns in the structuring of a cogent honors project proposal. Although all participants will create and submit a proposal, only those proposals approved by the honors committee will receive funding and academic support. Non-approved proposals must be resubmitted with appropriate modifications.
applied toward the program. 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 an IPS provides a coherent program of study, whether it can better meet the needs of the student, and whether the student can offer evidence of ability to plan and carry out such a program. To be eligible for consideration, the student must be regularly enrolled at Rocky Mountain College and available for regular on-campus contact with the major advisor.

Interdisciplinary Studies

A specific international studies curriculum is not offered at Rocky Mountain College. Instead, students are encouraged to work with their academic advisors to either 1) choose a specific major and add international and intercultural dimensions to it through study abroad and by taking courses which will provide both international and intercultural perspectives, or 2) develop an Individualized Program of Study (IPS) which would combine those courses that best support the student’s educational and career goals in international relations, area studies, language studies, or other international and intercultural fields. The IPS option has been used by several students who were interested in developing a foundation for further study in international diplomacy, economic and social development, business, interpreting/translation, specific language study, and intelligence/security issues.

Major in Social Studies Education

(Broadfield): This major is recommended for those who desire teacher certification. Required is a minimum of 18 credits in history, 12 in political science, 12 in economics, and 12 in either sociology/anthropology or psychology. In addition, students must complete the professional education sequence for secondary teachers as described in the “Education” section of the catalog. Required are the following courses:

**History**: HST103 or HST104; one of the following: HST203, HST204, HST313; HST260/360 or HST311; HST490; and two of the following: HST211, HST212, HST363, HST365;

**Political science**: POL101, POL203, POL401, and 3 credits of upper-division electives;

**Economics**: ECO201, ECO202, ECO402, and 3 credits of upper-division electives;
Sociology/Anthropology: SOC101, SOC201, SOC242, and 3 credits of upper-division electives; OR Psychology: PSY101, PSY206, and 6 credits of upper-division electives.

**IDS 101**
**FRESHMAN SEMINAR**
Fall and Spring Semesters. 1 semester hour.
A course designed to introduce 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.

**IDS 105**
**HUMANITIES ENRICHMENT**
Spring Semester. 1 semester hour.
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.

**IDS 110**
**INTRODUCTION TO THE HUMANITIES**
Fall Semester. 3 semester hours.
This course will introduce students to the humanities through a series of basic lectures and discussion on history, mythology, philosophy, religion, drama, poetry, literature, music, art, and politics along with the importance of these subjects in contributing to our development as humans.

**IDS 112**
**STUDENT LEADERSHIP**
Fall Semester. 1 semester hour.
This course will assist student leaders in confronting issues and challenges they will face on campus. Emphasis will be on student development theory, basic leadership skills, communication, and social issues. This course is mandatory for resident assistants, but will be greatly beneficial to all students in or aspiring to leadership roles on campus. Recommended for ASRMC, hall council, and other club officers.

**IDS 120**
**COLLEGE STUDY SKILLS/DEVELOPMENTAL READING**
Fall and Spring Semesters. 2 semester hours.
This course enables the student to master the learning strategies which lead to academic success. It also includes in-depth instruction in inferential, literal, and critical reading skills, as well as techniques for rapid and efficient reading.

**IDS 202**
**CAREER EXPLORATION AND PLANNING**
On Demand. 2 semester hours.
This class focuses on the various facets of career search and choice. Students will assess their skills, values, interests, and aptitudes to see where they fit in the world of work. Information about job market trends, job search skills, resume writing, and interviewing.

**IDS 220**
**COLLEGE NEWSPAPER**
On Demand. 1-3 semester hours.
Requires permission of the faculty advisor. Pass/no pass grading.

**IDS 421**
**METHODS AND MATERIALS: TEACHING SOCIAL SCIENCE IN THE SECONDARY SCHOOL**
Fall Semester. 2 semester hours.
This course emphasizes the teaching of economics, history, political science, psychology, social science broadfield, and sociology/anthropology at the secondary (5-12) level. Methods of teaching these subjects, reviewing texts for content appropriate to various grade levels, and the use of technology in the classroom will constitute major parts of the course. Special 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 cross-listed under the “Education” section and is the capstone course for the social studies broadfield education major. Corequisite: EDC420.

**IDS 422**
**METHODS AND MATERIALS: TEACHING NATURAL SCIENCE IN THE SECONDARY SCHOOL**
Fall Semester. 2 semester hours.
This course emphasizes the teaching of biology and chemistry at the secondary 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 cross-listed under the “Education” section and is the capstone course for the biology or chemistry education major. Corequisite: EDC420.

**IDS 475**  
**THE ENVIRONMENT, THE INDIVIDUAL, AND SOCIETY**  
Spring Semester. Alternate Years. 3 semester hours. This course will explore the relationships among individuals, societies, and natural environments. Selected environmental issues will be discussed from a variety of perspectives (e.g., scientific, ethical, historical, economic, and philosophical). Students will examine alternative positions on these issues and will be expected to justify their own responses. This course is required for the environmental studies minor. Prerequisite: completion of 15 hours of the environmental studies minor.

**IDS 490**  
**INTERDISCIPLINARY SEMINAR**  
On Demand. 1-3 semester hours. Senior level capstone course designated by individual areas of study.

**ITS 215**  
**CONTEMPORARY ASTRONOMY**  
On Demand. 3 semester hours. An introductory course in the chronological development of knowledge of “what’s out there.” Particular emphasis will be placed on the structure of our solar system and our galaxy. The difficulty in the development of a historical-cultural viewpoint will be examined. Questions dealing with the existence of intelligent life in the universe will be discussed. Prerequisite: a course in high school or college chemistry or physics.

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### Management (Degree Completion)

*Lyle Courtnage, Director  
Amy Beatty, Assistant Director*

The degree completion program is designed to meet the needs of adult students who have completed two or more years of college. These students are typically working full-time and are interested in completing their degree in the evening while continuing to work. The bachelor’s degree in management is designed to apply closely to career goals. Classes are taught in a manner that is conducive to learning for adults.

**Curriculum:** The curriculum contains 17 classes called modules (51 credits), including 16 management modules and one advanced writing module. Each module is scheduled sequentially. The modules meet one night per week for 24 months.

**Graduation Requirements:** In addition to fulfilling all requirements for a baccalaureate degree (see “Academic” section), degree completion students must complete all management courses with a minimum GPA of 2.25.

**Additional Information:** Throughout the year, Rocky Mountain College has information sessions on campus and at other locations to inform prospective students and employers about the degree completion program. For a schedule of information sessions, or other information, contact the college at (406)657-1168 or 1-800-877-6259, ext. 1168 or e-mail graduate@rocky.edu.

### Module Descriptions

**AMS 201**  
**PRINCIPLES OF MACROECONOMICS**  
3 semester hours. The study of aggregate economic problems. An introduction to the economics of full employment, economic growth, and price stability.

**AMS 202**  
**PRINCIPLES OF MICROECONOMICS**  
3 semester hours. The study of individual economic problems. This course offers an introduction to production and exchange, pricing policies, and resource allocation under alternative competitive situations.
AMS 301
SMALL GROUP AND ORGANIZATIONAL BEHAVIOR
3 semester hours.
A study of small group behaviors and how those behaviors interact with organizational objectives.

AMS 312
MANAGEMENT CONCEPTS
3 semester hours.
Examines management functions, basic concepts, and principles of management, including group dynamics, motivation, planning, organizational problems, coordination control, job design, and power structures.

AMS 343
E-COMMERCE
3 semester hours.
Presents a balanced view of the world of electronic commerce, including technology and business elements. The class first explores the infrastructure of electronic commerce followed by implementation technology, business strategies, and the legal, ethical, and tax issues surrounding doing business electronically.

AMS 402
SMALL BUSINESS FINANCE
3 semester hours.
Financial management is often the difference between the survival or failure of a small business. Students will learn how to use financial tools to manage cash flow, measure profitability and liquidity, determine leverage, and value a business. The use of ratio analysis within the balance sheet and income statement are coupled with budgeting and breakeven analysis to complete the picture.

AMS 405
HUMAN RESOURCE MANAGEMENT
3 semester hours.
An analysis of the policies and practices of employee recruitment, selection, training, development, and compensation.

AMS 407
MARKETING
3 semester hours.
A study of the marketing process, including examination of consumer buying behavior, products and product development, distribution channels, pricing policies and promotion.

AMS 415
MANAGERIAL ACCOUNTING
3 semester hours.
Examines how managers use accounting information to make sound business decisions. Emphasizes the need for a “parallel information system” that enhances decision-making by providing managers with information not found in typical accounting reports. Cost behavior, performance analysis, capital investment analysis, and the theory and mechanics of budgeting are among topics examined.

AMS 420
MANAGERIAL ETHICS
3 semester hours.
Presents different perspectives on understanding the basic concepts and concerns of business ethics. Ideas on how to incorporate these concepts into the policies and decision-making processes of businesses will be introduced through a case study approach.

AMS 425
OPERATIONS MANAGEMENT
3 semester hours.
A study of various aspects of production, resource and operations management including quantitative analysis and decision making, production planning and scheduling, inventory control, material requirements planning, and quality control.

AMS 426
STRATEGIC PLANNING
3 semester hours.
This course introduces various management planning models and techniques and applies them to business cases. The concept of strategic planning used in achieving organizational goals is stressed.

AMS 449
INVESTING
3 semester hours.
Students explore the financial institutions that serve our free market society. They will learn about common stocks and bonds and how to analyze those instruments. Students are exposed to contrary thinking and will be
encouraged to think for themselves. All of these issues are interwoven with lessons about life and the pursuit of high ethical standards.

AMS 455 RESEARCH
3 semester hours.
Research provides information that facilitates decision-making. This research class follows the steps involved in the process of research. These steps include gathering, analyzing, and reporting information. Students use these steps in designing a research project.

AMS 483 MANAGEMENT SIMULATION
3 semester hours.
A computer simulation drawn from real-world situations to focus students on business strategy, planning, competitor analysis, cross-functional integration, and team building. Over several rounds teammates see the impact of their decisions on profits and market position. Students use what has been learned in previous modules to learn the major forces that drive the marketplace. Along the way they learn about a company’s inner workings and how various functional areas integrate in to a working whole.

ENG 325 PROFESSIONAL WRITING
3 semester hours.
This senior-level writing course teaches the 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 alternative media such as the Internet. Prerequisite: ENG119 or permission of professor.

Mathematics

William Jamison, Professor
Debra Wiens, Associate Professor
Ulrich Hoensch, Assistant Professor
Robyn Cummings, Instructor

The goal of the mathematics program is to give students a solid theoretical and applied foundation in the broad areas of analysis, algebraic theory, and applied math. In doing so, the faculty challenges students to think critically and logically, to solve problems and prove theorems, to recognize that mathematics is interrelated with many other disciplines, and to apply these skills to their lives. Students learn that theoretical mathematics requires not only a thorough knowledge of the discipline, but also a large dose of creativity. Students also learn to communicate their knowledge through mathematical symbols, written essays, and oral presentations.

Mathematics is an important component of a liberal arts education. A mastery of the basics of mathematics is essential for student success in college and throughout life. Many mathematics classes are interdisciplinary, introducing applications from a wide variety of fields. The mathematics program prepares majors to successfully teach, work in any of a wide variety of applied areas, or continue on to do graduate work. Graduates of the mathematics program have excelled both in graduate school and in their careers.

Major in Mathematics: A minimum of 39 or 40 hours is required, including MAT111, MAT112, MAT201, MAT202, MAT313, MAT316, MAT317, MAT318, MAT400, MAT492, and any two courses in mathematics numbered 200 or above, with one of those being MAT314 or MAT493.

Major in Mathematics Education: Normally this is a 4½ year program. A minimum of 45 semester hours is required, including MAT111, MAT112, MAT201, MAT202, MAT210 or MAT310, MAT212, MAT220, MAT306, MAT307, MAT312, MAT317, MAT318, MAT422, and 3 hours of courses in mathematics numbered 200 or above. Electives from computer science are recommended. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog. Because this is an extended major, no education minor is required. If students choose to have a minor, it does not have to be an education minor.

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 59 semester hours.

Minor in Mathematics: A minimum of 26 hours is required, including MAT111, MAT112, MAT201, MAT307 or MAT313, MAT317, and seven
hours of courses in mathematics numbered 200 or above. MAT422 may not be included.

**Minor in Mathematics Education**: A minimum of 39 semester hours is required, including MAT111, MAT112, MAT201, MAT210, MAT220, MAT306, MAT307, MAT312, MAT317, MAT318, MAT422, and 3 hours of courses in mathematics numbered 200 or above. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog.

**MAT 090**  
*REFRESHER MATH: ALGEBRA*  
Fall and Spring Semesters. 0 semester hours.  
A developmental course in elementary algebra designed to prepare students for college algebra.

**MAT 100**  
*COLLEGE ALGEBRA*  
Fall and Spring Semesters. 3 semester hours.  
A basic course in intermediate and advanced algebra. Prerequisite: satisfactory score on a placement exam.

**MAT 102**  
*MATHEMATICAL APPLICATIONS*  
Fall and Spring Semesters. 3 semester hours.  
Applications of mathematics to a variety of disciplines. Designed for the non-math major or minor. Prerequisite: satisfactory score on a placement exam.

**MAT 103**  
*MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS I*  
Fall Semester. 3 semester hours.  
A survey of various mathematical topics normally taught in grades K – 8, specifically: numeration systems, number theory, patterns and relationships, and fractions. Prerequisite: MAT100 or satisfactory score on a placement exam. NOTE: Only one of the courses, MAT103 or MAT104, can be used to satisfy the mathematics general education requirement.

**MAT 104**  
*MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS II*  
Spring Semester. 3 semester hours.  
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. Prerequisite: MAT100 or satisfactory score on a placement exam. 

**MAT 110**  
*ELEMENTARY FUNCTIONS*  
Fall and Spring Semesters. 3 Semester hours.  
A standard pre-calculus course emphasizing the function concept. Special attention is paid to trigonometric, exponential, and logarithmic functions. Analytical geometry may also be discussed. Prerequisite: MAT100 or satisfactory score on a placement exam.

**MAT 111**  
*INTRODUCTORY CALCULUS I*  
Fall Semester. 5 semester hours.  
A study of the functions of one real variable. Brief review of the circular functions. The ideas of limit, continuity, and differentiation are explained and applied to physical problems. Use of the mean-value theorem in approximations, problem solving, and an introduction to mathematical proof. The use of graphing calculators is required. Prerequisite: satisfactory score on a placement exam or MAT110.

**MAT 112**  
*INTRODUCTORY CALCULUS II*  
Spring Semester. 5 semester hours.  
A continuation of the study of the functions of one real variable. The idea of integration is explained and applied to physical problems. Introduction to mathematical proofs. The use of graphing calculators is required. Prerequisite: MAT111.

**MAT 201**  
*INTERMEDIATE CALCULUS I*  
Fall Semester. 3 semester hours.  
Continuation of MAT111 and MAT112. Introduction to the algebra of vectors. Sequences and infinite series are studied, along with convergence tests. Increasing emphasis on mathematical proofs, modeling of physical problems, error estimation, and Taylor’s theorem. Prerequisite: MAT112.
MAT 202
INTERMEDIATE CALCULUS II
Spring Semester. 3 semester hours.
Continuation of MAT201. 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 mathematical proofs, the modeling of physical problems, error estimation, and the analysis of geometrical problems in higher dimensional space will be considered. Prerequisite: MAT201.

MAT 210
PROBABILITY AND STATISTICS
Fall or Spring Semester, and Summer Semester. 3 semester hours.
A non-calculus-based study of discrete probability theory and its statistical applications. Use of permutations and combinations in computing the probability of discrete events. Distribution theory and its applications in hypothesis testing and setting confidence intervals. The binomial distribution will be studied in detail. Prerequisite: MAT100 or satisfactory score on a placement exam.

MAT 211
LINEAR ALGEBRA
On Demand. 3 semester hours.
An introduction to the study of matrices, determinants, systems of linear equations, and transformations. Vector space theory is the unifying theme for this mathematical structure. The computational aspect, both theoretical and applied, is emphasized. Prerequisite: MAT111.

MAT 212
HOW TO READ AND WRITE PROOFS
Spring Semester. Alternate Years. 3 semester hours.
An introduction to the different methods of mathematical proofs. An emphasis 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 sophomore year. Prerequisite: MAT111.

MAT 215
OPERATIONS RESEARCH
On Demand. 3 semester hours.
The analytic theory of decision making in the face of uncertainty; and the use of operational research or game theory methods applied to model building and the design of experiments. Prerequisite: MAT201 or permission of professor.

MAT 219
GRAPH THEORY
On Demand. 3 semester hours.
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.

MAT 220
ELEMENTARY NUMBER THEORY
Fall Semester. Alternate Years. 3 semester hours.
Axiomatic development of the positive integers. Construction of the real number system. Study of equations with integral solutions. Divisibility properties, Diophantine and Pell’s equations, prime numbers, and the analysis of congruences will be studied. Prerequisite: MAT111.

MAT 300
MATHEMATICAL THOUGHT
On Demand. 2 semester hours.
An introduction to mathematics with an emphasis on logical analysis.

MAT 306
HISTORY AND PHILOSOPHY OF MATHEMATICS
Spring Semester. Alternate Years. 3 semester hours.
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: MAT111.

MAT 307
SYMBOLIC LOGIC
Spring semester. Alternate Years. 3 semester hours.
Cross-listed as PHR307.
Introduction to logical argument and analysis by use of Boolean algebra. Construction of truth tables and Venn Diagrams and their use to analyze complex statements, application to the design of electrical circuits that...
respond to logical commands, and axiomatic systems will be examined. Completeness and consistency of systems are discussed. Prerequisite: permission of professor.

**MAT 310**  
**MATHEMATICAL STATISTICS**  
Fall Semester. Alternate Years. 3 semester hours.  
Estimation, decision theory, testing hypotheses, relationships in a set of random variables, basic model and design theory, and Stochastic processes are examined. Prerequisite: permission of professor.

**MAT 312**  
**MODERN GEOMETRIC THEORIES**  
Fall Semester. Alternate Years. 3 semester hours.  
A study of Euclidean and non-Euclidean geometries. Prerequisites: MAT111 and MAT212 or permission of professor.

**MAT 313**  
**DIFFERENTIAL EQUATIONS I**  
Fall Semester. Alternate Years. 3 semester hours.  
First-order differential equations, linear differential equations, linear systems, operational methods, series solutions of second order linear equations, and the applications and use of a computer in solving differential equations will be emphasized. Prerequisite: MAT202.

**MAT 314**  
**DIFFERENTIAL EQUATIONS II**  
Spring Semester. Alternate Years. 3 semester hours.  
A standard second-semester course in differential equations. The course will include a study of boundary value problems, numerical methods (with error analysis), non-linear systems, Fourier series, and transforms. An introduction to the solution of partial differential equations. Applications and use of a computer in solving differential equations will be emphasized. Prerequisite: MAT313.

**MAT 315**  
**VECTOR ANALYSIS**  
Spring Semester. Alternate Years. 2 semester hours.  
A standard course in vectors. Subjects covered will include Green’s divergence and Stokes’ theorems, differential geometry, topics from surface theory, and tensor analysis. Applications to physical theory will be emphasized. Prerequisite: MAT202.

**MAT 316**  
**COMPLEX VARIABLES**  
Spring Semester. Alternate Years. 3 semester hours.  
A basic undergraduate course in complex variables. Topics will include analytic functions, Cauchy’s integral formula, the residue calculus, and conformal mapping. Prerequisite: MAT202.

**MAT 317**  
**MODERN ALGEBRAIC THEORY I**  
Fall Semester. Alternate years. 3 semester hours.  
An introduction to algebraic structures via group theory. A careful development of the concept of a group and their elementary properties. Emphasis on creating mathematical proofs. Some applications to physical problems are included. Prerequisites: MAT201 and MAT212.

**MAT 318**  
**MODERN ALGEBRAIC THEORY II**  
Spring Semester. Alternate Years. 3 semester hours.  
MAT318 is an extension of MAT317, with ring, ideal, and field theory introduced and examined. Some Galois theory may be covered. Prerequisite: MAT317.

**MAT 325**  
**COMBINATORICS**  
On Demand. 3 semester hours. Cross-listed as CSC325.  
A basic course in enumerative combinatorics. Emphasis will be placed on 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 or permission of professor.

**MAT 400**  
**ADVANCED CALCULUS I**  
Fall Semester. Alternate Years. 3 semester hours.  
A standard senior course in advanced calculus. Topics include elementary topology, integration, convergence, differentiation, applications to geometry and analysis, and elements of differential geometry. Prerequisite: MAT202.
MAT 401
ADVANCED CALCULUS II
Spring Semester. Alternate Years. 3 semester hours.
A standard senior course in advanced calculus. Topics include elementary topology, function theory, integration, convergence, differentiation, applications to geometry and analysis, elements of differential geometry. Prerequisite: MAT400.

MAT 422
METHODS AND MATERIALS: TEACHING MATHEMATICS, GRADES 5 – 12
On Demand. 2 semester hours.
Methods of teaching mathematical content appropriate for grades 5 - 12 will be explored. Appropriate use of technology and implications of current research in mathematics education will be discussed. Current NCTM curriculum standards will be used as the foundation of the course. Prerequisite: MAT201, Corequisite: EDC420.

MAT 450
INTERNSHIP
On Demand. 1 - 15 semester hours.
An internship in mathematics arranged between a member of the math faculty and the student. The internship will satisfy general education requirements but 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 and will satisfy the requirements of the division of natural sciences and mathematics. Contract required.

MAT 481
ELEMENTS OF REAL VARIABLE THEORY
On Demand. 3 semester hours.
Prerequisite: MAT492 or permission of professor.

MAT 490
SEMINAR
On Demand. 1-3 semester hours.
Selected topics in mathematics. Prerequisite: permission of professor.

MAT 492
TOPOLOGY I
Fall Semester. Alternate Years. 3 semester hours.
A careful study of point-set topology. Development of the structure of topological spaces by postulational approach to neighborhood of a point concept. Open and closed sets will be examined in detail, along with bases and sub-bases. Prerequisites: MAT201 and MAT212.

MAT 493
TOPOLOGY II
Spring Semester. Alternate Years. 3 semester hours.
A continuation of MAT492 with the ideas of connectedness and compactness studied. Applications to real analysis will be given by a detailed study of metric spaces. Prerequisite: MAT492.

Music
Fred Binckes, Professor
David Reynolds, Professor
Steven Hart, Assistant Professor
Leann Vralsted, Piano
Kathryn A. Lindberg, Visiting Assistant Professor

The music program provides students of Rocky Mountain College with substantive training in music education which is fully integrated into the liberal arts tradition. Through courses and experiences in music performance, music history, and music theory, interested participants can develop an awareness of the role of music in the enrichment of the human spirit. But beyond this informed appreciation of music’s positive influence in diverse cultures, the music program strives to develop disciplined and skilled teachers and performers through personal coaching in both private lessons and ensemble rehearsals. The critical and analytical skills encouraged in these activities can be potent forces in equipping students with both the cultural and technical perspectives essential to effective participation in an ever-changing society.

Students majoring in music performance or music education can expect to receive a detailed, intense education covering a wide variety of musical subjects. The performance curriculum is well-suited to students preparing for graduate study in music, while studies in music education, taken in conjunction with the fulfillment of state education requirements, qualify graduates to teach choral and instrumental music in kindergarten through twelfth grades.

The minor in music is an extremely flexible and accessible academic structure designed for the musically talented student pursuing a major in another field, while the minor in music education is designed to
provide dual certification for those majoring in elementary education.

**Piano Proficiency Test:** All music education majors must pass a proficiency test in piano. Piano proficiency is the ability to play scales in all sharp and flat keys and to transpose and harmonize simple songs and hymns.

**Performance Requirements:** All music majors must participate in at least one performing ensemble each semester of enrollment. No more than four semester hours of ensemble credit may be applied to the major. Two semester hours must be in a college choir and two semester hours must be in a large instrumental ensemble. A senior recital is required of all music and music education majors. A half junior and full senior recital are required of all performance majors.

**Recital Attendance:** Music majors and minors are required to attend all music department recitals throughout their program of study.

**Major in Music Performance:** A minimum of 50 semester hours is required, including MUS020, MUS030, MUS040, MUS111, MUS112, MUS201, MUS202, MUS211, MUS212, MUS311, MUS312, MUS402, 8 semester hours in applied study, and 8 semester hours in ensemble participation.

**Major in K-12 Vocal and Instrumental**

**Music Education:** A minimum of 60 semester hours is required, including
- **Music:** MUS020, MUS030, MUS040, MUS111, MUS112, MUS140, MUS153, MUS201, MUS202, MUS211, MUS212, MUS402, 8 semester hours in applied study, and 8 semester hours in ensemble participation.
- **Music Education:** MUS291S, MUS319, MUS325, MUS326, MUS344, and MUS415.

Music education majors are encouraged to participate in a field practicum during both their sophomore and junior years. In addition, students must complete the professional education program for K-12 teaching as described in the “Education” section of the catalog. Vocal and instrumental music education majors (K-12) are not required to take EDC 420.

**Minor in Music:** A minimum of 20 hours is required, including MUS020, MUS111, MUS112, MUS140, MUS201, and MUS202. Electives must include applied music and ensemble participation.

**Minor in Music Education:** This option is only open to those with a major in another field of education and is intended to give those students eligibility for dual licensure. A minimum of 36 semester hours is required, including
- **Music:** MUS020, MUS030, MUS101, MUS111, MUS112, MUS140, MUS402, 6 semester hours in applied study, and 6 semester hours in ensemble participation.
- **Music Education:** MUS319, MUS325, and MUS326.

**MUS020**

**RECITAL ATTENDANCE**

Fall and Spring Semesters. 0 semester hours.

Music majors and minors are required to attend all departmental recitals throughout their program of study.

**MUS030**

**JUNIOR RECITAL**

Fall and Spring Semesters. 0 semester hours.

Junior recital.

**MUS040**

**SENIOR RECITAL**

Fall and Spring Semesters. 0 semester hours.

Senior recital.

**MUS100**

**ELEMENTS OF MUSIC**

Fall Semester. 2 semester hours.

An introduction to the fundamentals of music, including basic music reading (notation), rhythm, meter, and harmony. Not open to music majors. This course may be used to satisfy general education requirements.

**MUS101**

**INTRODUCTION TO MUSIC**

On Demand. 3 semester hours.

A listening approach for the understanding of musical styles, forms, and functions within Western society. While not applicable to the music major requirements, this course may be used by non-music majors to satisfy general education requirements.

**MUS111**

**THEORY I**

Fall Semester. 4 semester hours.

Fundamental elements of music--melodic, rhythmic, harmonic--through hearing, playing and writing of
theoretical material. Development of aural perception of scales, intervals, and rhythmic patterns.

**MUS 112**  
**THEORY II**  
Spring Semester. 4 semester hours.  
Fundamental elements of music—melodic, rhythmic, harmonic—through hearing, playing, and writing of theoretical material. Development of aural perception of scales, intervals, and rhythmic patterns. Prerequisite: MUS111.

**MUS 140**  
**INTRODUCTION TO MUSIC OF THE WORLD'S PEOPLE**  
On Demand. 3 semester hours.  
An aural survey of music from traditional societies. Emphasis is placed on an interdisciplinary, cross-cultural understanding of societies studied and the identification of musical elements as they are found in listening examples from throughout the world.

**MUS 153**  
**BEGINNING GROUP GUITAR**  
Spring Semester. Alternate Years. 1 semester hour.  
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.

**MUS 201**  
**MUSIC THROUGH THE CENTURIES I**  
Fall Semester. 3 semester hours.  
A study of Western music history and literature from the Medieval world through the cultural milieu of the Renaissance and Baroque eras. Prerequisite: MUS101.

**MUS 202**  
**MUSIC THROUGH THE CENTURIES II**  
Spring Semester. 3 semester hours.  
The continuation of MUS201, commencing with the Rococo and extending through contemporary compositional trends. Prerequisite: MUS201.

**MUS 204**  
**HISTORY OF JAZZ**  
On Demand. 2 semester hours.  
The evolution of jazz from its roots to contemporary trends. This course may be used to satisfy general education requirements.

**MUS 205**  
**HISTORY OF ROCK**  
On Demand. 2 semester hours.  
A study of 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 used to satisfy general education requirements.

**MUS 207**  
**JUST JAZZ**  
On Demand. 3 semester hours.  
A chronological review of jazz and its social foundations. Resident lectures, rare recordings, and hard-won videos will offer jazz styles as represented by geographic trends, outstanding musical personalities, technical innovations, and commercial pressures. Significant vocalists will also be a part of this survey.

**MUS 211**  
**THEORY III**  
Fall Semester. 4 semester hours.  
Training 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. Prerequisite: MUS112.

**MUS 212**  
**THEORY IV**  
Spring Semester. 4 semester hours.  
Training 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. Prerequisite: MUS211.

**MUS 215**  
**CREATIVITY**  
Fall Semester. Alternate Years. 3 semester hours.  
Cross-listed as ENG215 or ART215.  
This course approaches creativity as a skill to develop, not as some magical gift bestowed on a few select people. The last three weeks of the course will be devoted to a large-scale project in the 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 date. Through the
activities in this course, students will bring a higher
degree of creativity to their daily lives.

MUS 221
ACCOMPANYING I
On Demand. 1 semester hour.
A survey of the history of accompanying. Provides
practical experience with vocal and instrumental
repertoire.

MUS 222
ACCOMPANYING II
On Demand. 1 semester hour.
A survey of the history of accompanying. Provides
practical experience with vocal and instrumental
repertoire. Prerequisite: MUS221.

MUS 251
APPLIED MUSIC
Fall Semester. 1-2 semester hours.
Private instruction is offered in voice, piano, organ,
composition, conducting, and other instrumental areas.
All courses require a minimum of 14 private half-hour
lessons for the semester and 6 hours of weekly practice.
All on-campus students should arrange for practice in
Losekamp Hall. Upon approval of the music program,
any student may take lessons in applied music and
receive a recorded grade. All fees for applied music are
payable at the business office at the time of registration.
Credit for one lesson per week for 30 minutes with 6
hours of practice per week is equal to one semester
hour. Credit for two lessons per week of 30 minutes
each with 12 hours of practice per week is equal to two
semester hours.

MUS 252
APPLIED MUSIC
Spring Semester. 1-2 semester hours.
Private instruction is offered in voice, piano, organ,
composition, conducting, and other instrumental areas.
All courses require a minimum of 14 private half-hour
lessons for the semester and 6 hours of weekly practice.
All on-campus students should arrange for practice in
Losekamp Hall. Upon approval of the music program,
any student may take lessons in applied music and
receive a recorded grade. All fees for applied music are
payable at the business office at the time of registration.
Credit for one lesson per week for 30 minutes with 6
hours of practice per week is equal to one semester
hour. Credit for two lessons per week of 30 minutes
each with 12 hours of practice per week is equal to two
semester hours.

MUS 261
PIANO CLASS
Fall Semester. 1 semester hour.
Beginning group piano instruction. Designed for the
music major with no previous piano experience.

MUS 262
PIANO CLASS
Spring Semester. 1 semester hour.
Beginning group piano instruction. Designed for the
music major with no previous piano experience.

MUS 271
COLLEGE CHOIR
Fall Semester. 1-2 semester hours.
Students register for one credit and are required to
rehearse three days a week. Students registering for two
credits rehearse daily. Choristers sing for church
services and present special programs. Choir tours are
arranged each spring. Membership by audition.
Prerequisite: permission of professor.

MUS 272
COLLEGE CHOIR
Spring Semester. 1-2 semester hours.
Students register for one credit and are required to
rehearse three days a week. Students registering for two
credits rehearse daily. Choristers rehearse daily, sing
for church services, and present special programs.
Choir tours are arranged each spring. Membership by
audition. Prerequisite: permission of professor.

MUS 275
OPERA WORKSHOP
Fall Semester. 2-3 semester hours.
Production of chamber opera and opera scenes.
Participation in all facets of production.

MUS 276
OPERA WORKSHOP
Spring Semester. 2-3 semester hours.
Production of chamber opera and opera scenes.
Participation in all facets of production.
MUS 283
CONCERT BAND
Fall Semester. 1 semester hour.
Study of selected band literature through rehearsal and performance. Prerequisite: permission of professor.

MUS 284
CONCERT BAND
Spring Semester. 1 semester hour.
Study of selected band literature through rehearsal and performance. Prerequisite: permission of professor.

MUS 286
JAZZ ENSEMBLE
Fall Semester. 1 semester hour.
Study and performance of selected literature for large jazz ensemble encompassing styles from Big Band standards to contemporary jazz. By audition only.

MUS 287
JAZZ ENSEMBLE
Spring Semester. 1 semester hour.
Study and performance of selected literature for large jazz ensemble encompassing styles from Big Band standards to contemporary jazz. By audition only.

MUS 291E
FIELD PRACTICUM: ELEMENTARY SCHOOL
On Demand. 1-3 semester hours.
Practical field experience in the elementary school, generally as a tutor or aide. Each semester hour requires 40 hours of experience. Students will keep a journal and write a report on the experience. This experience may be completed during the semester on a part-time basis or during the January break or May term on a full-time basis. Part-time experience is recommended.

MUS 291S
FIELD PRACTICUM: SECONDARY AND/OR K-12 SCHOOL
Fall and Spring Semesters. 1 semester hour. Cross-listed as EDC291S.
This course provides practical field experience in an elementary, 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 status is required.

MUS 293
SYMPHONY ORCHESTRA
Fall Semester. 1 semester hour.
Participation in the Billings Symphony Orchestra under college supervision. Admission only by audition and by consent of the Symphony director.

MUS 294
SYMPHONY ORCHESTRA
Spring Semester. 1 semester hour.
Participation in the Billings Symphony Orchestra under college supervision. Admission only by audition and by consent of the Symphony director.

MUS 295
CHAMBER ENSEMBLE
Fall Semester. 1 semester hour.
Selected groups such as brass, woodwind, string, vocal, instrumental, piano, percussion, or other mixed combinations formed with the intention of performing a specific musical genre.

MUS 296
CHAMBER ENSEMBLE
Spring Semester. 1 semester hour.
Selected groups such as brass, woodwind, string, vocal, instrumental, piano, percussion, or other mixed combinations formed with the intention of performing a specific musical genre.

MUS 304
HISTORY OF JAZZ
On Demand. 2 semester hours.
For music majors. The evolution of jazz from its roots to contemporary trends. This course may be used to satisfy general education requirements.

MUS 305
HISTORY OF ROCK
On Demand. 2 semester hours.
For music majors. A study of 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 used to satisfy general education requirements.
MUS 307
JUST JAZZ
On Demand. 3 semester hours.
A chronological review of jazz and its social foundations. Resident lectures, rare recordings, and hard-won videos will offer jazz styles as represented by geographic trends, outstanding musical personalities, technical innovations, and commercial pressures. Significant vocalists will also be a part of this survey.

MUS 311
COUNTERPOINT I
On Demand. 2 semester hours.
The reading and writing of polyphony. Based upon sixteenth-century contrapuntal techniques. Prerequisite: MUS112.

MUS 312
COUNTERPOINT II
On Demand. 2 semester hours.
The reading and writing of polyphony. Based upon eighteenth-century contrapuntal techniques. Prerequisite: MUS112.

MUS 315
CREATIVITY
Fall Semester. Alternate Years. 3 semester hours.
Cross-listed as ENG315 or ART315.
This course approaches creativity as a skill to develop, not as some magical gift bestowed on a few select people. The last three weeks of the course will be devoted to a large-scale project in the 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 date. Through the activities in this course, students will bring a higher degree of creativity to their daily lives.

MUS 319
PEDAGOGY OF VOICE
Spring Semester. Alternate Years. 2 semester hours.
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.

MUS 325
INSTRUMENTAL METHODS I
Fall Semester. Alternate Years. 3 semester hours.
A laboratory course which examines the elements of playing and teaching all woodwind instruments and the standard orchestral strings. Literature and materials suitable for use in the elementary schools will be examined. Prerequisite: permission of professor.

MUS 326
INSTRUMENTAL METHODS II
Spring Semester. Alternate Years. 3 semester hours.
A laboratory course which examines the elements of playing and teaching the standard brass and percussion instruments. Literature and materials suitable for use in the elementary schools will be examined. Prerequisite: permission of professor.

MUS 344
METHODS AND MATERIALS: GENERAL MUSIC IN THE ELEMENTARY SCHOOL
Spring Semester. 2 semester hours.
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. Prerequisites: MUS100, K-12 music education major status, or permission of professor.

MUS 351
APPLIED MUSIC
Fall Semester. 1-2 semester hour.
Private instruction is offered in voice, piano, organ, composition, conducting, and other instrumental areas. All courses require a minimum of 14 private half-hour lessons for the semester and 6 hours of weekly practice. All on-campus students should arrange for practice in Losekamp Hall. Upon approval of the music program, any student may take lessons in applied music and receive a recorded grade. All fees for applied music are payable at the business office at the time of registration. Credit for one lesson per week for 30 minutes with 6 hours of practice per week is equal to one semester hour. Credit for two lessons per week of 30 minutes each with 12 hours of practice per week is equal to two semester hours.
MUS 352
APPLIED MUSIC
Spring Semester. 1-2 semester hour.
Private instruction is offered in voice, piano, organ,
composition, conducting, and other instrumental areas.
All courses require a minimum of 14 private half-hour
lessons for the semester and 6 hours of weekly practice.
All on-campus students should arrange for practice in
Losekamp Hall. Upon approval of the music program,
you may take lessons in applied music and
receive a recorded grade. All fees for applied music are
payable at the business office at the time of registration.
Credit for one lesson per week for 30 minutes with 6
hours of practice per week is equal to one semester
hour. Credit for two lessons per week of 30 minutes
each with 12 hours of practice per week is equal to two
semester hours.

MUS 371
COLLEGE CHOIR
Fall Semester. 1-2 semester hours.
Students register for one credit and are required to
rehearse three days a week. Students registering for two
credits rehearse daily. Choristers rehearse daily, sing
for church services, and present special programs.
Choir tours are arranged each spring. By audition.
Prerequisite: permission of professor.

MUS 372
COLLEGE CHOIR
Spring Semester. 1-2 semester hours.
Students register for one credit and are required to
rehearse three days a week. Students registering for two
credits rehearse daily. Choristers rehearse daily, sing
for church services, and present special programs.
Choir tours are arranged each spring. By audition.
Prerequisite: permission of professor.

MUS 375
OPERA WORKSHOP
Fall Semester. 2-3 semester hours.
Production of chamber opera and opera scenes.
Participation in all facets of production.

MUS 376
OPERA WORKSHOP
Spring Semester. 2-3 semester hours.
Production of chamber opera and opera scenes.
Participation in all facets of production.

MUS 383
CONCERT BAND
Fall Semester. 1 semester hour.
Study of selected band literature through rehearsal and
performance. Prerequisite: permission of professor.

MUS 384
CONCERT BAND
Spring Semester. 1 semester hour.
Study of selected band literature through rehearsal and
performance. Prerequisite: permission of professor.

MUS 386
JAZZ ENSEMBLE
Fall Semester. 1 semester hour.
Study and performance of selected literature for large
jazz ensemble, encompassing styles from Big Band
standards to contemporary jazz. By audition only.

MUS 387
JAZZ ENSEMBLE
Spring Semester. 1 semester hour.
Study and performance of selected literature for large
jazz ensemble, encompassing styles from Big Band
standards to contemporary jazz. By audition only.

MUS 393
SYMPHONY ORCHESTRA
Fall Semester. 1 semester hour.
Participation in the Billings Symphony Orchestra under
college supervision. Admission only by audition and by
consent of the Symphony director.

MUS 394
SYMPHONY ORCHESTRA
Spring Semester. 1 semester hour.
Participation in the Billings Symphony Orchestra under
college supervision. Admission only by audition and by
consent of the Symphony director.

MUS 395
CHAMBER ENSEMBLE
Fall Semester. 1 semester hour.
Selected groups such as brass, woodwind, string, vocal,
instrumental, piano, percussion, or other mixed
combinations formed with the intention of performing a
specific musical genre.
MUS 396
CHAMBER ENSEMBLE
Spring Semester. 1 semester hour.
Selected groups such as brass, woodwind, string, vocal, instrumental, piano, percussion, or other mixed combinations formed with the intention of performing a specific musical genre.

MUS 402
CONDUCTING
Fall Semester. Alternate Years. 3 semester hours.
Introduction to the fundamentals of baton technique; choral, orchestral, and symphonic score reading; and choral and instrumental rehearsal and conducting techniques. The student will conduct and rehearse the college choirs and bands. Prerequisite: MUS212.

MUS 406
CHORAL LITERATURE
On Demand. 3 semester hours.
Examination of selected sacred and secular works of the choral repertoires. Emphasis is placed upon the practical realization of the works studied. Prerequisites: MUS212 and permission of professor.

MUS 415
METHODS AND MATERIALS: TEACHING MUSIC IN THE SECONDARY SCHOOL
Spring Semester. Alternate Years. 3 semester hours.
Philosophy, methodology, and materials for teaching band, orchestral, choral, and general music at the secondary level. Seminar-style course discussing varied topics, including discipline, professionalism, budgets, programming, marching band, jazz ensemble, and other aspects of running a music program. Prerequisites: MUS212, MUS325, and MUS326.

Native American Studies

Jim Rains, Director

The Native American Studies minor is a critical inquiry into the past and present of the American Indian experience. The coursework will explore Native American perspectives, world view, and cultural dynamics. The curriculum is comprised of interdisciplinary courses from the fields of history, sociology, literature, religion, environmental studies, political science, communication, art, and education. Course offerings explore issues essential to a broad understanding of Native American cultures: self-determination, the depiction of Native American peoples, contact and conflict, culture and identity, invasion and colonization, oral tradition, tribal government, legal policy, community and economic development, arts, sovereignty, and religious freedom.

Minor in Native American Studies: A minimum of 18 semester hours with at least 6 credits in upper-division courses is required, including NAS110, NAS223, NAS270, and SOC242.

NAS 110
INTRODUCTION TO NATIVE AMERICAN STUDIES
Fall Semester. 3 semester hours.
This course is a survey of selected Native North American cultures from pre-contact to the present. Special emphasis is placed on the issue of diversity among tribes as well as the impact of European contact on the political, linguistic, social, and legal aspects of indigenous cultures.

NAS 212
NATIVE AMERICAN ARTS
Fall Semester. 3 semester hours.
Students will explore the cultural production of indigenous peoples. Topics range from Native American music to contemporary Native American art.

NAS 223
INTRODUCTION TO NATIVE AMERICAN LITERATURE
Fall Semester. 3 semester hours.
Students examine literature produced by Native American writers such as Momoday, Welch, Erdrich, McNickle, Silko, and others. Students will consider issues of genre, history, and politics as they relate to Native American literature. Special emphasis will be given to the oral tradition and its relationship to contemporary Native American writing.

NAS 270
NATIVE AMERICAN HISTORY
Fall Semester. 3 semester hours.
Students are introduced to the histories of various North American tribes. Students explore the concept of history, review stereotypical approaches and
methodologies used to define the Indian past, and explore new approaches to Native American history.

NAS 370
SPECIAL PROBLEMS IN NATIVE AMERICAN STUDIES
Spring Semester. Alternate Years. 3 semester hours. This course examines issues of sovereignty, economic development, law, government, and education and the significance of such issues for the future of Native American tribes.

NAS 450
INTERNSHIP
On Demand. 3 semester hours. This course enables students to gain valuable work experience within tribal government, federal and state agencies, and Native American organizations in a supervised, evaluative work experience.

NAS 486
TOPICS IN NATIVE AMERICAN LITERATURE
Spring Semester. Alternate Years. 3 semester hours. Students will undertake an advanced study of writing produced by Native American authors. Topics of inquiry will include fiction, nonfiction, ethnohistory, poetry, drama, and film.

NAS 490
SENIOR SEMINAR
Spring Semester. Alternate Years. 3 semester hours. This course emphasizes research and writing in the exploration of issues within the areas of contemporary Native American life, Native American philosophy and religion, and Indian peoples of Montana. This course is the capstone for the Native American Studies minor.

NAS 499
INDEPENDENT STUDY
On Demand. 3 semester hours. The student undertakes a specialized topic of inquiry of a selected area of Native American Studies under the supervision of the faculty.

Philosophy and Religious Thought

Jay Cassel, Professor
David Strong, Associate Professor

Literally, philosophy means the 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 law school, graduate school, and seminary. We encourage capable students to double major in philosophy and religious thought and some other field.

Major in Philosophy and Religious Thought:
A minimum of 24 semester hours, selected with the advice of the department so as to provide a coherent program. Students considering graduate school are urged to do an independent project (PHR499).

Minor in Philosophy and Religious Thought:
A minimum of 18 semester hours selected with the advice of the department, with 12 being above the 100 level. Six semester hours must be upper-division courses.

NOTE: Starred courses (*) fulfill the religious thought requirement in the general education requirements.

PHR 100*
INTRODUCTION TO PHILOSOPHY AND RELIGIOUS THOUGHT
Fall and Spring Semesters. 3 semester hours. 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.
PHR 111*
INTRODUCTION TO THE OLD TESTAMENT
On Demand. 3 semester hours.
An introduction to Old Testament literature, focusing on the great narratives and their basic theological premises. Students will develop a strategy of interpretation of the history of Israel and valuable for contemporary religious thought.

PHR 112*
INTRODUCTION TO THE NEW TESTAMENT
On Demand. 3 semester hours.
An introduction to the variety of New Testament literature and its religious setting. Students will seek to understand the beginnings of Christianity, ideas about God and humanity brought by Jesus, and the literature produced by the new church.

PHR 120*
CLASSIC TEXTS IN WESTERN THOUGHT I
Fall Semester. Alternate Years. 3 semester hours.
Introduction to the study of some of the texts of primary importance to the Western tradition. We will begin by reading Homer’s *Odyssey* and then turn to other classic texts such as portions of Thucydides’ *History of the Peloponnesian War*, Sophocles’ *Oedipus Cycle*, Plato’s *Apology and Symposium*, portions of Aristotle’s *Nicomachean Ethics*, portions of the *Bible*, and Augustine’s *Confessions*.

PHR 121*
CLASSIC TEXTS IN WESTERN THOUGHT II
Spring Semester. Alternate Years. 3 semester hours.
Introduction to the study of some of the texts of primary importance to the Western tradition. We will begin by reading portions of Dante’s *Divine Comedy* and then turn to works by authors such as Rabelais, Descartes, Hobbes, Shakespeare, Milton, Rousseau, Marx, Mill, Freud, Rilke, and Woolf.

PHR 205
LOGIC
Fall and Spring Semesters. 3 semester hours.
An introductory course in the principles and methods used to distinguish between correct and 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.

PHR 210*
GENRES OF BIBLICAL LITERATURE
Fall and Spring Semesters. 3 semester hours.
An investigation of one specific genre of Biblical literature. Students have recently studied Biblical narrative, Gospels, the Psalms and Paul.

PHR 211*
GREEK AND EARLY CHRISTIAN PHILOSOPHY
Fall Semester. Alternate Years. 3 semester hours.
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.

PHR 212
MODERN PHILOSOPHY
Spring Semester. Alternate Years. 3 semester hours.
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.

PHR 213
CONTEMPORARY PHILOSOPHY
On Demand. 3 semester hours.
A study of major philosophers, ideas, and movements of the twentieth century. This course is a continuation of PHR211 and PHR212, but it may focus exclusively on important primary texts from philosophers belonging to Continental, Anglo-American, and American traditions.

PHR 218*
TOPICS IN CATHOLICISM
Spring Semester. 3 semester hours.
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.
PHR 220*
JESUS
Every Three Years. 3 semester hours.
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.

PHR 236*
RELIGIONS OF THE WORLD
On Demand. 3 semester hours.
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.

PHR 303
ETHICS
Spring Semester. Alternate Years. 3 semester hours.
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.

PHR 304
ENVIRONMENTAL ETHICS
Spring Semester. Alternate Years. 3 semester hours.
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.

PHR 307
SYMBOLIC LOGIC
Spring Semester. Alternate Years. 3 semester hours.
Cross-listed as MAT307.
Introduction to logical argument and analysis by use of Boolean algebra. Construction of truth tables and Venn diagrams and their use to analyze complex statements; application to the design of electrical circuits that respond to logical commands; axiomatic systems. Prerequisite: permission of professor.

PHR 310*
ISSUES IN BIBLICAL SCHOLARSHIP
Every Three Years. 3 semester hours.
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.

PHR 312
MODERN PHILOSOPHY
Spring Semester. Alternate Years. 3 semester hours.
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.

PHR 317
ARCHAEOLOGICAL DIG IN ISRAEL
Summer Semester. 6 semester hours.
Students must register for 3 credits each in two of the departmental areas in which this course is offered. Those areas are history, philosophy and religious thought, and sociology. Students are afforded the opportunity to participate in the archaeological excavations at Bethsaida in Israel for three weeks. They learn the techniques of excavating, recording, dating, and evaluating finds while exploring the history of the region through visits to other archaeological and Biblical sites and through daily lectures. Living accommodations are provided at an Israeli kibbutz where the students intermingle with kibbutzim, gain first-hand experience of kibbutz living, and interview people who have lived for many years in the kibbutz. Several days are spent in Jerusalem where the opportunity is provided to visit Christian sites. Students are taken to the University of Bethlehem to hear a lecture on the Arab situation and to interview Palestinian Arab students.
PHR 319*
THEOLOGY OF MISSION
Spring Semester. 3 semester hours.
This class examines Christian theology and then moves into a study of both historical and contemporary missions. Students participate in a mission trip over spring break, which carries an additional fee. Other aspects of the class include a variety of fundraising and other activities pertaining to the success of the mission trip. Past trips have taken students to San Francisco, Denver, Seattle, and Merida in Yucatan, Mexico.

PHR 320*
MAJOR RELIGIOUS FIGURES
Fall Semester. Alternate Years. 3 semester hours.
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.

PHR 321
MAJOR PHILOSOPHICAL FIGURES
On Demand. 3 semester hours.
A study of the writings and, in some cases, the life of a major philosophical thinker in the Western tradition.

PHR 340*
CHRISTIAN ETHICS
Alternate Years. 3 semester hours.
Students will study the Biblical basis for ethics as well as several modern Christian ethicists to understand how they move from the beliefs of Christianity toward recommendations for specific ethical action.

PHR 362*
THEOLOGY AND CHRISTIAN BELIEFS
Every Three Years. 3 semester hours.
This course investigates classical and modern Christian answers to the basic questions of what it means to believe in God and whether one is talking about anything more than ourselves, our ideals, and our aspirations when one talks about God.

PHR 370*
RELIGION AND LITERATURE
Spring Semester. Alternate Years. 3 semester hours.
Cross-listed as ENG370.
A study of religious issues, conflict, and hopes in modern literature. The works read will vary from year to year but will probably include authors like Melville, Tolstoy, Hemingway, Flannery O’Conner, and John Updike.

PHR 375
STYLES OF CONTEMPORARY PHILOSOPHY
Fall Semester. Alternate Years. 3 semester hours.
The twentieth century is characterized by a plurality of philosophical styles such as phenomenology, existentialism, hermeneutics, deconstruction, analytic philosophy, pragmatism, and systematic philosophy. Intensive study and critical evaluation of one or two of these styles.

PHR 378
PHILOSOPHY OF TECHNOLOGY AND MODERN CULTURE
Spring Semester. Alternate Years. 3 semester hours.
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.

PHR 420
TOPICS IN PHILOSOPHY
On Demand. 3 semester hours.
Offered at the discretion of the department to correspond to current faculty research and interests.

PHR 421*
PHILOSOPHY OF RELIGION
Every Three Years. 3 semester hours.
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.

PHR 460*
ISSUES IN CONTEMPORARY RELIGIOUS THOUGHT
Every Three Years. 3 semester hours.
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.
PHR 490
SEMINAR
On Demand. 1-3 semester hours.
Intensive study of a selected area or figure in philosophy or religion.

Physical Education and Health

Clarece Lacy, Professor
Paul Roper, Professor
Nancy Downing, Associate 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 multi-disciplinary education by applying creative problem solving and communication skills in professional settings.

Major in Physical Education and Health:
Four options are offered under the major.
1. athletic training
2. education K-12
3. exercise science
4. physical education and health studies

Athletic Training Option: A minimum of 43 semester hours is required, including PEH122, PEH181, PEH182, PEH204, PEH210, PEH211, PEH215, PEH222, PEH281, PEH282, PEH320, PEH322, PEH356, PEH381 or PEH382, PEH425, and PEH481. Related requirements are CHM 100, PHA247, and PSY101. Note: BIO322 may substituted 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 course work will establish a knowledge base in sports medicine and develop techniques in sports injury evaluation, management, and rehabilitation.

Education K-12 Option: A minimum of 47 semester hours is required, including PEH101 (swimming) or PEH105, PEH106, PEH107, PEH122, PEH210, PEH211, PEH222, PEH312, PEH315, PEH320, PEH325, PEH356, PEH391, PEH412, PEH420, PEH421, PEH441, and EDC341. Related requirements are BIO321 or PEH204, and either COM102 or THR132. This option meets the health enhancement certification requirements of the state of Montana. In addition, students must complete the professional education program for K-12 as described in the “Education” section of the catalog. Students seeking an endorsement in PEH K-12 must earn a minimum grade of “C” in all required PEH courses, including prerequisites.

Exercise Science Option: A minimum of 41 semester hours is required, including 3 semester hours chosen from PEH101 and PEH102 (in consultation with department), PEH110, PEH122, PEH210, PEH211, PEH215, PEH222, PEH315, PEH320, PEH356, PEH412, PEH441, and PEH450 (8 credits). A related requirement is either BIO321 or PEH204. 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 and Health Studies

Option: A minimum of 32 semester hours is required, including 4 semester hours chosen from PEH101, PEH102, PEH105, PEH106, or PEH107; additional requirements are PEH110, PEH122, PEH210, PEH222, PEH315, PEH320, PEH356, PEH412, and 6 semester hours of electives approved by the program. Related requirements are BIO321 or PEH204. This option
requires a core of foundation courses with electives to be chosen dependent upon the student’s career goal.

**Minor in Physical Education and Health:**
These options are offered under the minor in physical education and health:
1. athletic training
2. coaching
3. physical education and health studies

**Athletic Training Option:** A minimum of 25 semester hours is required, including PEH122, PEH204, PEH210, PEH222, PEH281, PEH322, PEH381 or PEH382, PEH425, and PEH481. 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 course work will establish a knowledge base in sports medicine and develop techniques in sports injury evaluation, management, and rehabilitation.

**Coaching Option:** A minimum of 22 semester hours is required, including PEH122, PEH222, PEH300, PEH315, PEH320, PEH356, PEH412, and two of the following: PEH301, PEH302, PEH303, PEH305, PEH306, PEH307, PEH311. 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 and Health Studies Option:** A minimum of 25 semester hours is required, including 3 semester hours chosen from PEH101, PEH102, PEH105, PEH106, or PEH107; additional requirements are PEH122, PEH204, PEH210, PEH222, PEH320, PEH356, and PEH412. This option, when combined with majors such as business or psychology, allows the student to prepare for physical education-related careers.

**Pre-Professional Program in Physical Education and Health**

**The Pre-Professional Athletic Training Option:** A minimum of 73 semester hours is required. The course work is designed to complement the 2-3 program at the University of Montana. Students spend an average of 2 years at Rocky satisfying specific prerequisite courses and then transfer to the University of Montana. Students are not guaranteed a position at the U of M; they must apply and be accepted. The prerequisite courses are as follows: PEH110, PEH122, PEH181, PEH182, PEH222, PEH210, PEH215, PEH281, PEH282, PEH322, PEH356, PEH425, CHM101, CHM102, BIO111, BIO250, BIO321, BIO322, EDC370, MAT100, ENG119 and ENG219, and COM102.

**PEH 100 VARSITY SPORTS**
Fall and Spring Semesters. 1 semester hour.

**PEH 101 PHYSICAL EDUCATION ACTIVITY**
Fall Semester. 1 semester hour.
Select from aerobics, backpacking, badminton, canoeing, cardioresistance training, kayaking, dance, fitness, fly fishing, golf, recreational horseback riding, rock climbing, skiing, swimming, team sports, tennis, weight training, wilderness navigation, and yoga. A specific activity may be taken twice for credit. Pass/no pass. Conditioning classes for varsity sports will not fulfill the activity general education requirement. No more than 8 PEH activity credits may count toward graduation. This rule does not apply to activities required in a PEH major.

**PEH 102 PHYSICAL EDUCATION ACTIVITY**
Spring Semester. 1 semester hour.
Select from aerobics, backpacking, badminton, canoeing, cardioresistance training, kayaking, dance, fitness, fly fishing, golf, recreational horseback riding, rock climbing, skiing, swimming, team sports, tennis, weight training, wilderness navigation, and yoga. A specific activity may be taken twice for credit. Pass/no pass. Conditioning classes for varsity sports will not fulfill the activity general education requirement. No more than 8 PEH activity credits may count toward graduation. This rule does not apply to activities required in a PEH major.

**PEH 105 PROFESSIONAL ACTIVITIES I**
Fall Semester. Alternate Years. 2 semester hours.
This course is designed to introduce and direct students in attaining levels of proficiency in the following team-sports activities: soccer, team-handball, speedball, basketball, softball, and volleyball. Students will be expected to show increases in, and will be assessed on,
their level of skill, knowledge of rules, and application of strategies within each activity.

**PEH 106**
**PROFESSIONAL ACTIVITIES II**
Spring Semester. 2 semester hours.
This course is designed to introduce and direct students toward a level of proficiency in the following individual sport activities: tennis, badminton, racquetball, pickleball, squash, and various outdoor recreational activities. Students will be expected to show increases in, and will be assessed on, their level of skill, knowledge of rules, and application of strategies within each activity.

**PEH 107**
**PROFESSIONAL ACTIVITIES III**
Fall Semester. Alternate Years. 2 semester hours.
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 multicultural games, fitness testing, and educational gymnastics. Students will be expected to show increases in, and will be assessed on, their level of skill, knowledge of rules, and application of strategies within each activity.

**PEH 110**
**INTRODUCTION TO PHYSICAL EDUCATION**
Fall Semester. Alternate Years. 2 semester hours.
Introduction to the discipline and profession of exercise science. Explores career opportunities possible with physical education training.

**PEH 115**
**INTRODUCTION TO WELLNESS CONCEPTS**
Fall and Spring Semesters. 1 semester hour.
Becoming fit and well affects the quality of one’s life. Through class sessions and activity labs, students will 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. This course is a general education requirement.

**PEH 122**
**FIRST AID/CPR/SAFETY EDUCATION**
Fall Semester. 2 semester hours.
Considers the procedures and practices for emergency care in the case of accident or sudden illness. Develops awareness of safety and accident prevention. Students will be certified in first aid through the American Red Cross and will be certified in CPR through the American Heart Association.

**PEH 181**
**ATHLETIC TRAINING FIELD PRACTICUM**
Fall Semester. 2 semester hours.
Students complete 200 clinical hours under the supervision of a certified trainer. Prerequisite: PEH 222 (may be taken concurrently).

**PEH 182**
**ATHLETIC TRAINING FIELD PRACTICUM**
Spring Semester. 2 semester hours.
Students complete 200 clinical hours under the supervision of a certified trainer. Prerequisite: PEH 222 (may be taken concurrently).

**PEH 204**
**FOUNDATIONS OF HUMAN STRUCTURE AND FUNCTION**
Spring Semester. 4 semester hours.
A study of the basic foundations and functions of the human body, including the skeleton, musculature, nervous system, cardiovascular system, and digestive and respiratory systems. Lab experiences focus on the nomenclature, structure, and function of these systems.

**PEH 210**
**HEALTH AND WELLNESS**
Fall Semester. 4 semester hours.
Includes the topics of community/environmental health, consumer issues, death and dying, healthy lifestyles, infectious diseases, medical ethics, psychological health, risk factor management, sexuality; and substance abuse.

**PEH 211**
**NUTRITION**
Spring Semester. 3 semester hours.
Studies the essential nutrients and their principal sources and functions; the assessment, analysis, and modification of dietary intake; and the relationship of nutrition to fitness and to the stages of the life cycle. This is not a chemistry-based course.
PEH 215
FITNESS SCIENCE
Spring Semester. 3 semester hours.
Examines the various aspects of health-related fitness
and the relationship of fitness to health. Includes an
individual fitness assessment, the development of
exercise programs, and proper exercise technique.
Prepares students for the American College of Sports
Medicine certification exam as a health/fitness
instructor. Prerequisites: PEH 204, PEH210, PEH211.

PEH 222
BEGINNING ATHLETIC TRAINING
Fall Semester. 3 semester hours.
Procedures and practices in the prevention, immediate
care, treatment, and rehabilitation of injuries and
sudden illness. Topics include taping, bandaging, and
conditioning for athletic competition.

PEH 281
ATHLETIC TRAINING FIELD PRACTICUM
Fall Semester. 2 semester hours.
Students complete 200 clinical hours under the
supervision of a certified trainer. Prerequisite: PEH222
(may be taken concurrently).

PEH 282
ATHLETIC TRAINING FIELD PRACTICUM
Spring Semester. 2 semester hours.
Students complete 200 clinical hours under the
supervision of a certified trainer. Prerequisite: PEH222
(may be taken concurrently).

PEH 300
CURRENT ISSUES AND PRACTICES IN
COACHING
Spring Semester. Alternate Years. 2 semester hours.
Topics include philosophy, sport psychology and
sociology, and team management skills. Course
includes ACEP certification materials.

PEH 301
OFFICIATING HIGH SCHOOL SPORTS
Fall Semester. 2 semester hours.
Students will demonstrate knowledge and practical
skills in officiating a minimum of 3 high school sports
from the following: football, soccer, volleyball,
basketball, softball or wrestling. Upon successful
completion of the course, students can be certified by
the Montana Officials’ Association, permitting
immediate employment as middle-school, high school,
and youth sports officials.

PEH 302
BASKETBALL COACHING
Spring Semester. Alternate Years. 2 semester hours.
Coaching theories of basketball: fundamentals,
techniques, strategies, practice sessions, utilization of
personnel, and the ethics of coaching.

PEH 303
FOOTBALL COACHING
Fall Semester. Alternate Years. 2 semester hours.
Coaching theories of football: skills, systems of play,
practice sessions, strategies, conditioning, utilization of
personnel, off-season programs, and the ethics of
coaching.

PEH 305
TRACK AND FIELD COACHING
On demand. 2 semester hours.
Mechanical analysis of track and field events.
Conditioning and training methods. Teaching,
coaching, and officiating techniques with practical
experience in these areas. Management of track and
field meets.

PEH 306
VOLLEYBALL COACHING
Fall Semester. Alternate Years. 2 semester hours.
Mechanical analysis and study of coaching theories,
including but not limited to skills, strategies, and
systems of play.

PEH 307
BASEBALL AND SOFTBALL COACHING
On Demand. 2 semester hours.
Theories of coaching baseball and softball, including
skills, strategies, practice sessions, conditioning, and
teaching and coaching the young athlete.

PEH 311
SOCCER COACHING
Fall Semester. Alternate Years. 2 semester hours.
Theories of coaching soccer, including skills, strategies,
practice sessions, conditioning, and teaching and
coaching the young athlete.
PEH 312
DANCE METHODS
Fall Semester. Alternate Years. 2 semester hours.
Fundamentals of rhythm. Methods and materials in teaching folk, social, and square dance. Teaching experience included.

PEH 315
MOTOR LEARNING
Spring Semester. 2 semester hours.
Examines the factors which influence the learning of motor skills. Content will include 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 will be a central part of the course.

PEH 320
BIOMECHANICS
Fall Semester. 3 semester hours.
This course studies the principles of human movement. Emphasis will be placed on demonstrating the ability to analyze human motion in terms of improving human movement performance. Also included are fundamental concepts of biological and mechanical aspects of musculoskeletal structures. Prerequisite: BIO321 or PEH204.

PEH 322
ADVANCED ATHLETIC TRAINING
Spring Semester. 3 semester hours.
Techniques of rehabilitation, use of modalities, advanced techniques of injury evaluation, advanced taping techniques, administration and management of injuries. Hands-on experience required under the supervision of an ATC (Certified Athletic Trainer). Prerequisites: PEH204 or BIO321, PEH222, PEH356, and approval of the program advisor.

PEH 325
ELEMENTARY HEALTH ENHANCEMENT SEMINAR AND TEACHING LAB
Spring Semester. 3 semester hours.
The purpose of this course is to develop practical skills in the teaching of health enhancement with special attention given to behavior management and curriculum development. Lab experiences will include working with both the typical and the exceptional student. Students will be required to complete several hours in the schools, in both classroom and gymnasium settings.
Prerequisites: EDC330, EDC341.

PEH 356
PHYSIOLOGY OF EXERCISE
Spring Semester. 3 semester hours.
effects of exercise on the cardiorespiratory and neuromuscular systems. Physiological aspects of various training methods. Laboratory experience included.

PEH 381
ATHLETIC TRAINING FIELD PRACTICUM
Fall Semester. 2 semester hours.
Students complete 200 clinical hours under the supervision of a certified trainer. Prerequisites: PEH281 or PEH282, and PEH322 (may be taken concurrently).

PEH 382
ATHLETIC TRAINING FIELD PRACTICUM
Spring Semester. 2 semester hours.
Students complete 200 clinical hours under the supervision of a certified trainer. Prerequisites: PEH281 or PEH282, and PEH322 (may be taken concurrently).

PEH 391
FIELD PRACTICUM
Fall and Spring Semesters. 1 semester hour.
Forty-five hours of experience on the job are required for one hour of credit. Majors in the K-12 education option register for one credit earned as a teaching assistant in PEH115.

PEH 412
MANAGEMENT OF HEALTH ENHANCEMENT AND SPORT PROGRAMS
Spring Semester. 3 semester hours.
Organization, supervision, and administration of various health enhancement and sport programs.

PEH 420
METHODS AND MATERIALS: TEACHING SECONDARY HEALTH ENHANCEMENT
Fall Semester. Alternate Years. 3 semester hours.
Provides competence for the delivery and evaluation of planned learning activities. Areas of concentration will include emotional/mental health, substance abuse, human sexuality, diseases, consumer health, healthy lifestyles, nutrition, weight control, community/
environmental health, medical ethical issues, team and individual activities, lifetime sports, cooperative games, and fitness activities. Prerequisites: PEH105, PEH106, PEH107, PEH210, and PEH211. Corequisite: EDC420.

**PEH 421**
**HISTORICAL AND CONTEMPORARY ISSUES IN PHYSICAL EDUCATION/SPORT**
Fall Semester. Alternate Years. 2 semester hours.
Study of historical and contemporary issues affecting physical education and sport, including ethical and gender issues.

**PEH 425**
**THERAPEUTIC REHABILITATION AND MODALITIES**
Spring Semester. Alternate Years. 3 semester hours.
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. Prerequisites: PEH222 and PEH322 (may be taken concurrently).

**PEH 441**
**MEASUREMENT AND EVALUATION IN HEALTH ENHANCEMENT AND EXERCISE SCIENCE**
Fall Semester. 2 semester hours.
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 will introduce students to the basic application of statistics, tests and measurement, report compilation, and interpretation of data. Students will examine various types of assessment and test instrument design.

**PEH 450**
**INTERNSHIP**
On Demand. 1-15 semester hours.
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 six credits in an off-campus program, one credit as a teaching assistant in PEH115 and one credit as a supervisor in the Fortin Center cardio-resistance lab. Prerequisite: approval of program advisor.

**PEH 481**
**ATHLETIC TRAINING FIELD PRACTICUM**
Fall Semester. 2 semester hours.
Students complete 200 clinical hours under the supervision of a certified trainer. Prerequisites: PEH281 or PEH282, and PEH322 (may be taken concurrently).

**PEH 482**
**ATHLETIC TRAINING FIELD PRACTICUM**
Spring Semester. 2 semester hours.
Students complete 200 clinical hours under the supervision of a certified trainer. Prerequisites: PEH281 or PEH282, and PEH322 (may be taken concurrently).

**PEH 490**
**PHYSICAL EDUCATION SEMINAR: ADVANCED THEORIES OF STRENGTH TRAINING AND CONDITIONING**
Spring Semester. 2 Semester hours.
Prepares the student for the National Strength and Conditioning Association’s certification exam as a certified strength and conditioning specialist. Prerequisites: PEH122, PEH204 or BIO321, PEH210, PEH211, PEH215, PEH222, PEH320, PEH356, and PEH441.

**Physician Assistant Program**

_Catherine Gemmiti, Program Director_
_Steve Bents, Associate Program Director_
_Leonard Etchart, Medical Director_
_Scott Murray, Assistant Professor/Clinical Scientist_
_Evan Thorley, Academic Coordinator_
_Melinda Luce, Clinical Coordinator_
_Rick Norine, Admissions Coordinator_

The physician assistant (PA) is a primary health care provider who works with and under the supervision of a licensed physician. The concept of the physician assistant has 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 physician assistant program is an ARC-PA (Accreditation Review Commission on Education for the Physician Assistant)
accredited program. 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 PA’s must pass to become nationally certified.

The program is an integrated, full-time, 25-month program consisting of both didactic and clinical instruction. It is an intensely challenging curriculum, both intellectually and physically; thus, it requires stamina as well as personal and financial sacrifice.

The course work begins just prior to the Fall semester of each academic year. The first 13 months of the program will include the fundamental behavioral 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 25 courses totaling 63 semester hours of credit will be 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 a 20-week family practice rotation plus other rotations in various specialties. Students must be willing and able to relocate at their own expense to places distant from Billings, Montana for up to 12 months during the clinical phase of their education. Employment while enrolled is strongly discouraged.

Students are required to fulfill all Rocky Mountain College’s general education requirements for the master of science degree, and all other prerequisite course work listed below prior to applying for the PA program. All prerequisite course work is available at Rocky Mountain College. Technical standards apply and are available upon request.

The mission of the Rocky Mountain College physician assistant program is to provide a quality medical education that integrates classroom and clinical experience. The College’s aim is to produce graduates who have a commitment to others, particularly those in the rural and medically underserved areas of this region.

The liberal arts tradition and objectives of lifelong learning, critical thinking, communication skills, recognition of other cultures, and exploration of ethical issues are a valuable and necessary part of the physician assistant academic process and profession.

Minimum Application Requirements: Each student applying for admission must meet or exceed each of the following criteria: minimum GPA 3.00 on a 4.00 scale, with a minimum of 90 semester hours completed; all prerequisite course work completed, including the basic science prerequisites; and one year minimum full-time hands-on health care experience with direct patient contact.

Admissions Criteria: Admission to the program is based on several factors: past medical experience (one year minimum full-time hands-on patient care is required), past academic performance, knowledge and motivation to become a physician assistant, verbal and written communication skills, letters of recommendation, regional focus, prerequisite course work completion, personal interviews, and admission to Rocky Mountain College. Additional consideration is granted to students successfully completing basic science course work at RMC. Students should follow the application procedures for admission to the College detailed in the admission section of the catalog. The program has no policy for advanced placement.

Prerequisites: Students will not be allowed to enter the program until these prerequisites are completed: microbiology w/ lab, 1 semester (BIO250), human anatomy and physiology, two semesters (BIO321 and BIO322), survey of chemistry (CHM100 and CHM250), psychology, one semester, genetics, one semester (BIO203), and medical terminology, one semester (PHA247). Recommended courses include MAT210, PSY205, and PSY206. For other prerequisites, refer to the general education requirements in the academic section of this catalog.

Graduation Requirements: Students in the physician assistant program must satisfactorily complete all courses in the professional program with a GPA of 2.80 or above.

Master in Physician Assistant Studies: A minimum of 105 sequential semester hours is required, with 63 hours in the didactic phase, to include the following:

Summer Semester: PHA538, PHA509;
Fall Semester: PHA501, PHA530, PHA540, PHA510, PHA520, PHA620, and PHA514;
**Spring Semester**: PHA502, PHA532, PHA541, PHA511, PHA517, PHA521, PHA531, and PHA550; and
**Summer Semester**: PHA503, PHA534, PHA542, PHA512, PHA545, PHA610, PHA621, and PHA641.

The clinical instruction phase is 42 semester hours, to include PHA651, PHA652, PHA653, and PHA683.

**NOTE**: All graduate level PHA classes are restricted only to those students admitted to the PA program.

**PHA 215**  
**BASIC EMERGENCY MEDICAL TECHNICIAN**  
Spring Semester. 3 semester hours.  
*Open to all students*. Procedures and protocols dealing with prehospital patient assessment, patient treatment, trauma, recognition of medical emergencies, and scene safety. Class will be divided into half classroom lecture and discussion and half hands-on practice using programmed patients. Class follows the DOT curriculum and culminates with state and national certification, enabling students to work on an ambulance.

**PHA 247**  
**MEDICAL TERMINOLOGY**  
On Demand (Online). 2 semester hours.  
*Open to all students*. 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.

**PHA 501**  
**CLINICAL MEDICINE I**  
Fall Semester. 4 semester hours.  
This course is a comprehensive study of diseases emphasizing etiology, pathophysiology, signs and symptoms, diagnostic procedures, and therapeutic measures involved in treating and managing medical problems as seen by the primary care practitioner. Material is presented in modules of genetic disorders, hematology, oncology, immunology/allergy, infectious diseases, ENT, and ophthalmology. PHA510, PHA530, and PHA540 are correlated.

**PHA 502**  
**CLINICAL MEDICINE II**  
Spring Semester. 4 semester hours.  
This course is a comprehensive study of diseases emphasizing etiology, pathophysiology, signs and symptoms, diagnostic procedures, and therapeutic measures involved in treating and managing medical problems as seen by the primary care practitioner. Material is presented in modules of pulmonology, cardiology, gastroenterology, neurology, orthopedics, and rheumatology. PHA511, PHA532, and PHA541 are correlated.

**PHA 503**  
**CLINICAL MEDICINE III**  
Summer Semester. 4 semester hours.  
This course is a comprehensive study of diseases emphasizing etiology, pathophysiology, signs and symptoms, diagnostic procedures, and therapeutic measures involved in treating and managing medical problems as seen by the primary care practitioner. Material is presented in modules of endocrinology, nephrology, urology/Men’s Health, OB/Women’s Health, dermatology, and general surgery. PHA512, PHA534, and PHA542 are correlated.

**PHA 509**  
**PROFESSIONAL & MEDICAL PRACTICE ISSUES**  
Summer Semester. 3 semester hours.  
This course 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 resuscitate, inherent conflicts in genetics and reproductive technologies, as well as professional concerns about paternalism, patient rights, and confidentiality will be examined. Students will think critically, drawing upon their own experience, to develop an understanding of how to handle ethical dilemmas while practicing primary care medicine. Preparation will include understanding how to interpret medical literature and how to ethically apply research. Additionally, students will 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.
PHA 510
PHARMACOTHERAPEUTICS I
Fall Semester. 2 semester hours.
This three-semester course discusses the principles of pharmacological drugs and action followed by a review of the principal therapeutic agents in each clinical/medical area. The relationship of pharmacology to other sciences and PHA courses is integrated. This course will examine drug classifications, mechanisms of action, utilization, drug metabolism, pharmacokinetics, and drug interactions, among other issues. Prescription writing and current standards of practice and regulation are also discussed.

PHA 511
PHARMACOTHERAPEUTICS II
Spring Semester. 2 semester hours.
This three-semester course discusses principles of pharmacological drugs and action followed by a review of the principal therapeutic agents in each clinical/medical area. The relationship of pharmacology to other sciences and PHA courses is integrated. This course will examine drug classifications, mechanisms of action, utilization, drug metabolism, pharmacokinetics, and drug interactions, among other issues. Prescription writing and current standards of practice and regulation are also discussed.

PHA 512
PHARMACOTHERAPEUTICS III
Summer Semester. 2 semester hours.
This three-semester course discusses principles of pharmacological drugs and action followed by a review of the principal therapeutic agents in each clinical/medical area. The relationship of pharmacology to other sciences and PHA courses is integrated. This course will examine drug classifications, mechanisms of action, utilization, drug metabolism, pharmacokinetics, and drug interactions, among other issues. Prescription writing and current standards of practice and regulation are also discussed.

PHA 514
MEDICAL EPIDEMIOLOGY AND BIOSTATISTICS
Fall Semester. 3 semester hours.
This course is designed to acquaint the student with the basics of statistics and epidemiology, especially as they pertain to critical thinking skills. The course centers around actual or hypothetical cases to illustrate pertinent concepts and prepares the student to be a rational 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 and epidemiology are emphasized.

PHA 517
CLINICAL RESEARCH, BASIC TOOLS
Spring Semester. 3 semester hours.
Introduction to the principles of clinical research design, including the literature search, methodology, data collection, data management, and reporting of results and conclusions. This course will also discuss the interpretation of medical literature.

PHA 520
HISTORY AND PHYSICAL EXAM I
Fall Semester. 3 semester hours.
This two-semester course prepares students to master the art of taking medical histories and the techniques of physical examination. The first semester focuses on “normal” findings; in the second semester, the focus is on recognition and significance of “abnormal” findings. A systems approach is used and the material is taught using a lecture, demonstration, and lab practicum format. Students spend time in the clinical setting via PHA550 practicing their skills and learning how to present their findings. Special emphasis is placed on interpersonal communication and writing skills. A laboratory session will be held weekly to incorporate the lecture material.

PHA 521
HISTORY AND PHYSICAL EXAM II
Spring Semester. 3 semester hours.
This two-semester course prepares students to master the art of taking medical histories and the techniques of physical examination. The first semester focuses on “normal” findings; in the second semester, the focus is on recognition and significance of “abnormal” findings. A systems approach is used and the material is taught using a lecture, demonstration, and lab practicum format. Students spend time in the clinical setting via PHA550 practicing their skills and learning how to present their findings. Special emphasis is placed on
interpersonal communication and writing skills. A laboratory session will be held weekly to incorporate the lecture material.

**PHA 530**
**PHYSIOLOGY/PATHOPHYSIOLOGY I**
Fall Semester. 2 semester hours.
Pathophysiology provides the basic link among the sciences of anatomy, physiology, and biochemistry and their application to the clinical practice of medicine. It is essential to study pathophysiology in order to understand the rationale for medical and surgical therapy. Topics will include basic physiology as well as inflammatory response, vascular and metabolic changes which result in altered structure and function, and the examination of gross and microscopic structural changes and resulting bodily malfunctions.

**PHA 531**
**BEHAVIORAL DYNAMICS**
Spring Semester. 2 semester hours.
The recognition and management of common psychosocial problems encountered in primary care practice will be reviewed. The important role of interviewing and history taking in all areas of practice, as the primary source of information about patients and as the avenue to rapport with patients, will be emphasized. Recognizing form and content in the interview will become the basic for teaching psychiatric diagnoses. Treatment will be discussed from a biopsychosocial perspective with reference to psychotherapies, psychopharmacology, and environmental intervention. Indications for referral and hospitalization will be discussed. Topics covered will include anxiety disorders, mood disorders, psychosis, organic conditions, substance use disorders, personality disorders, eating disorders, and psychiatric emergencies and crises.

**PHA 532**
**PHYSIOLOGY/PATHOPHYSIOLOGY II**
Spring Semester. 2 semester hours.
Pathophysiology provides the basic link among the sciences of anatomy, physiology, and biochemistry and their application to the clinical practice of medicine. It is essential to study pathophysiology in order to understand the rationale for medical and surgical therapy. Topics will include basic physiology as well as inflammatory response, vascular and metabolic changes which result in altered structure and function, and the examination of gross and microscopic structural changes and resulting bodily malfunctions.

**PHA 534**
**PHYSIOLOGY/PATHOPHYSIOLOGY III**
Summer Semester. 2 semester hours.
Pathophysiology provides the basic link among the sciences of anatomy, physiology, and biochemistry and their application to the clinical practice of medicine. It is essential to study pathophysiology in order to understand the rationale for medical and surgical therapy. Topics will include basic physiology as well as inflammatory response, vascular and metabolic changes which result in altered structure and function, and the examination of gross and microscopic structural changes and resulting bodily malfunctions.

**PHA 538**
**CLINICAL HUMAN ANATOMY**
Summer Semester. 3 semester hours.
This course is designed to teach students the essentials of gross anatomy pertaining to clinical practice. The student is expected to develop skills in understanding the three-dimensional relationship of structures in the human body and to be able to use these skills in reading and interpreting medical images. There will be at least one 2-hour review laboratory with prosected cadavers (3) each module. The course will utilize X-rays, CAT scans, and other imaging tools requiring knowledge of transverse and sagittal sections of anatomical regions. The clinical anatomy component will emphasize aspects of structure and function important to the practice of medicine.

**PHA 540**
**CLINICAL AND INTERPRETIVE SKILLS I**
Fall Semester. 2 semester hours.
This three-semester course will present common laboratory diagnostics employed in the evaluation of disease processes. Students develop proficiency in performing and analyzing such routine procedures as a CBC, a urinalysis, gram stains, and cultures. Students will develop skills and screening techniques in interpreting clinical laboratory values in relation to disease, therapy, and prognoses common to the delivery of primary care medicine. Students will also employ proper methods of performing various clinical procedures, such as intravenous catheter insertion,
intramuscular injections, passing nasogastric tubes, applying plaster casts, phlebotomy, suturing and sterile technique, wound care (pre/post op), vital signs, intubation, catheterization, ear irrigations, and removal of foreign bodies. Also, this course will present fundamentals of radiology and imaging techniques and other factors involved in the roentgenographic evaluation of disease. Performing and interpreting of electrocardiograms will be presented.

**PHA 541**
**CLINICAL AND INTERPRETIVE SKILLS II**
Spring Semester. 2 semester hours.
This three-semester course will present common laboratory diagnostics employed in the evaluation of disease processes. Students develop proficiency in performing and analyzing such routine procedures as a CBC, a urinalysis, gram stains, and cultures. Students will develop skills and screening techniques in interpreting clinical laboratory values in relation to disease, therapy, and prognoses common to the delivery of primary care medicine. Students will also employ proper methods of performing various clinical procedures, such as intravenous catheter insertion, intramuscular injections, passing nasogastric tubes, applying plaster casts, phlebotomy, suturing and sterile technique, wound care (pre/post op), vital signs, intubation, catheterization, ear irrigations, and removal of foreign bodies. Also, this course will present fundamentals of radiology and imaging techniques and other factors involved in the roentgenographic evaluation of disease. Performing and interpreting of electrocardiograms will be presented.

**PHA 542**
**CLINICAL AND INTERPRETIVE SKILLS III**
Summer Semester. 2 semester hours.
This three-semester course will present common laboratory diagnostics employed in the evaluation of disease processes. Students develop proficiency in performing and analyzing such routine procedures as a CBC, a urinalysis, gram stains, and cultures. Students will develop skills and screening techniques in interpreting clinical laboratory values in relation to disease, therapy, and prognoses common to the delivery of primary care medicine. Students will also employ proper methods of performing various clinical procedures, such as intravenous catheter insertion, intramuscular injections, passing nasogastric tubes, applying plaster casts, phlebotomy, suturing and sterile technique, wound care (pre/post op), vital signs, intubation, catheterization, ear irrigations, and removal of foreign bodies. Also, this course will present fundamentals of radiology and imaging techniques and other factors involved in the roentgenographic evaluation of disease. Performing and interpreting of electrocardiograms will be presented.

**PHA 545**
**PEDIATRICS**
Summer Semester. 2 semester hours.
The course will examine infant and child development, focusing on major common pediatric illnesses and their signs, symptoms, and management relative to the primary health care giver. 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.

**PHA 550**
**INTRODUCTION TO CLINICAL PRACTICE**
Spring Semester. 1 semester hour.
This course will allow students to examine and perform basic administrative functions inherent to the practice of medicine, such as CPT and ICD-9 coding. Students will be assigned to volunteer medical providers in the surrounding communities one-half day each week. The student will travel to the site of the practicing provider and where appropriate, take histories, perform physical examinations, and apply the knowledge acquired in the classroom to the clinical setting.

**PHA 610**
**EMERGENCY MEDICINE**
Summer Semester. 3 semester hours.
The course will present a system-by-system approach to the evaluation, recognition, and management of both medical and surgical emergencies necessary for a primary health care provider. Using a formal lecture/discussion format focusing on etiology, evaluation, and initial triage/treatment of more common emergency injuries and disease presentations which confront the primary health care provider. Advanced cardiac life support will be taught in this course.
PHA 620
PREVENTIVE MEDICINE
Fall Semester. 3 semester hours.
This course encompasses knowledge and skills that relate to health and risk assessments, disease prevention/health promotion interventions, and aspects of clinician/patient interactions necessary for integration of disease prevention and health promotion into day-to-day clinical practice. Knowledge and skills in applied nutrition are introduced and integrated into related health topics. The course outline follows the National Health Objectives as delineated in the document “Healthy People 2000.” The course coordinator assumes primary responsibility for the organization of the course but enlists clinicians in the community to share specific areas of expertise. Student evaluation will be based on projects and an exam designed to assess problem-solving and evaluation skills.

PHA 621
PROBLEM-BASED CLINICAL CORRELATION
Summer Semester. 2 semester hours.
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.

PHA 641
GERIATRICS
Summer Semester. 2 semester hours.
This course provides an introduction to gerontology with an emphasis on the normal biological, sociological, behavioral, and environmental changes occurring with age. Consequences of aging from the perspective of the primary health care provider 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.

Senior Year Clinical Rotations:

PHA 651 CLINICAL ROTATIONS*
12 semester hours. First semester of clinical rotations as assigned by the physician assistant program.

PHA 652 CLINICAL ROTATIONS*
12 semester hours. Second semester of clinical rotations as assigned by the physician assistant program.

PHA 653 CLINICAL ROTATIONS*
12 semester hours. Third semester of clinical rotations as assigned by the physician assistant program.

PHA 683
RESEARCH DESIGN/PROJECT
6 semester hours.
PA students identify an area of research and develop a prospectus for the project in year one. Research is conducted over the next 15 months, and the project is accomplished for program completion prior to graduation. The final assignment is an investigational/research paper on a topic chosen by the PA. Definitive guidelines for writing the paper are found in the handbook provided to the student.

*These rotations will include the following:

PRIMARY CARE/FAMILY PRACTICE ROTATION: This core rotation of 15 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 diagnostics, and the education of patients regarding health risk behaviors and therapeutic regimens.

INPATIENT INTERNAL MEDICINE ROTATION: This rotation of 5 weeks is designed to expose the various medical disorders and complications that necessitate hospitalization and further evaluation.

EMERGENCY MEDICINE ROTATION: This core rotation of 5 weeks is designed to provide 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, cardio-pulmonary resuscitation, fluid and electrolyte replacement, and acid-base balance are also stressed. **WOMEN’S HEALTH ROTATION**: This core rotation of 5 weeks provides exposure to the spectrum of problems and issues associated with women’s health care. The learning experiences emphasize family planning and birth control, recognition and treatment of sexually transmitted disease, cancer detection, and evaluation of common gynecological problems. An exposure to the surgical management of gynecological problems is also provided. The exposure of obstetrical problems will be balanced with the primary care/family practice clerkship. **ORTHOPEDIC ROTATION**: This core rotation of 5 weeks provides exposure to office and operative orthopedics. The emphasis is on the surgical and medical management of the disease processes that affect the bones and joints. Learning experiences include preoperative, intraoperative, and postoperative exposure. **SURGERY ROTATION**: This core rotation of 5 weeks provides an orientation to patients of various ages with surgically manageable diseases. The emphasis 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 the care of surgical wounds and post-operative complications. **BEHAVIORAL MEDICINE**: This core rotation of 5 weeks is designed to provide an understanding of the behavioral components of health, disease, and disability. Exposures 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 5 weeks is designed to give students an opportunity to explore any other medical or surgical specialty of their choice which correlates to the mission of the physician assistant program and which is under the direction and supervision of the program.

**Physics**

*Dick Walton, 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 RMC 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 an 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 require a proficiency in calculus; others require little mathematics, but all expect students to have, or develop, some ability at quantitative thinking.

**Minor in Physics**: A minimum of 18 semester hours is required, including PHS201, PHS202, and PHS300.

**Minor in Physics Education**: A minimum of 20 semester hours is required including PHS201, PHS202, PHS300, PHS320, PHS321, PHS325, IDS422, at least one course in biology, chemistry, or geology, and EDC420. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog.

**PHS 100 ATOMS TO STARS**

On Demand. 3 semester hours. 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.

PHS 101
FUNDAMENTAL PHYSICS I
Fall Semester. Alternate Years. 4 semester hours.
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 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.

PHS 102
FUNDAMENTAL PHYSICS II
Spring Semester. Alternate Years. 4 semester hours.
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 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.

PHS 201
GENERAL PHYSICS I
Fall Semester. 4 semester hours.
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: MAT111.

PHS 202
GENERAL PHYSICS II
Spring Semester. 4 semester hours.
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: MAT112.

PHS 300
PHYSICS LAB PROJECTS
On Demand. 1-2 semester hours.
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.

PHS 310
STATICS
On Demand. 3 semester hours.
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.

PHS 311
DYNAMICS
On Demand. 3 semester hours.
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.

PHS 320
RELATIVITY THEORY
Fall Semester. Alternate Years. 2 semester hours.
Introduction to Einstein’s theory of relativity with emphasis on the special theory. Prerequisite: PHS201 or permission of professor.
PHS 321
QUANTUM THEORY
Spring Semester. Alternate Years. 2 semester hours. Introduction to quantum mechanics, including the historical evolution of the theory. Emphasis will be on the wave mechanical formulation of the theory and Schroedinger’s equation. Topics such as quantum tunneling and atoms will be analyzed. The impact of quantum theory on the scientific world view will be considered. Prerequisite: PHS202.

PHS 325
NUCLEAR AND PARTICLE PHYSICS
Fall Semester. Alternate Years. 2 semester hours. Introduction to nuclear physics, including theory, experiments, and nuclear processes, as well as a survey of modern particle physics, including quantum chromodynamics. Prerequisite: PHS202.

Psychology

Linda Scott DeRosier, Professor
Barbara Vail, 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 that 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.

Major in Psychology: A minimum of 30 semester hours is required, including PSY101, PSY205 or PSY206, PSY305, PSY306 or PSY350, PSY312, PSY410, PSY431, and PSY450. In addition, either BSA209 or MAT210 is required, and 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, PSY205, PSY206, PSY302, PSY305, PSY306 or PSY350, PSY312, PSY410, PSY431, and PSY450. In addition, students must complete 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 18 semester hours is required, including PSY101, PSY205 or PSY206, PSY410, and 9 credits of psychology electives.

Minor in Psychology Education: A minimum of 20 semester hours is required including PSY101, PSY205 or PSY206, and PSY410. PSY312 and PSY431 are recommended. In addition, students must complete of the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog.

PSY 101
GENERAL PSYCHOLOGY
Fall and Spring Semesters. 3 semester hours. 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.

PSY 201
SOCIAL PSYCHOLOGY
Fall Semester. 3 semester hours. Cross-listed as SOC201. The study of 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. Prerequisite: PSY101.

**PSY 205**  
**HUMAN DEVELOPMENT I**  
Fall Semester. 3 semester hours.  
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.

**PSY 206**  
**HUMAN DEVELOPMENT II**  
Spring Semester. 3 semester hours.  
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 fundamental principles of human development from adolescence throughout the lifespan.

**PSY 212**  
**FAMILY DYNAMICS**  
On Demand. 3 semester hours.  
This course is a study of the main theories behind 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 class will require some knowledge of the therapy models utilized in psychotherapy. Prerequisite: PSY101.

**PSY 302**  
**EDUCATIONAL PSYCHOLOGY**  
Fall and Spring Semesters. 3 semester hours. Cross-listed as EDC302.  
Designed to aid students in further developing their perceptions and understandings of human behavior, especially learning behavior. This course will acquaint students with education psychology and facilitate their own achievement as participants in the learning process. Emphasis will be on exploring why individuals learn and the ways they learn and relating those findings to the school and the teaching situation. Work in this course will include a discussion of basic issues, theorists, and methods in educational psychology. Among the theorists whose work may be explored are Lorenz, Thorndike, Skinner, Freud, Piaget, Dewey, Bruner, Erikson, Bloom, Vygotsky, Watson, Milgram, Kohlberg, and Maslow. Prerequisite: PSY205 or PSY206.

**PSY 305**  
**ABNORMAL PSYCHOLOGY**  
Spring Semester. 3 semester hours.  
A survey of the concepts of normality, abnormality, and mental deficiency. The symptoms, causes, and treatment of the major mental disorders will be investigated from a variety of theoretical perspectives. Prerequisite: PSY101.

**PSY 306**  
**PERSONALITY THEORIES**  
Spring Semester. Alternate Years. 3 semester hours.  
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.

**PSY 312**  
**BEHAVIOR MANAGEMENT**  
Fall Semester. 3 semester hours.  
A review of 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.

**PSY 315**  
**COMMUNITY PROBLEMS/CONTEMPORARY ISSUES IN PSYCHOLOGY**  
Fall Semester. 3 semester hours.  
Provides students with 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.
PSY 350  
COUNSELING  
Spring Semester. Alternate Years. 3 semester hours.  
A study of 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. Prerequisites: PSY101 plus 6 additional semester hours in psychology.

PSY 410  
EXPERIMENTAL PSYCHOLOGY  
Fall Semester. 3 semester hours.  
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. Prerequisites: PSY101; and BSA209 or MAT210.

PSY 420  
METHODS AND MATERIALS: TEACHING PSYCHOLOGY, GRADES 5-12  
On Demand. 2 semester credits.  
This course deals with the teaching of 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 will constitute major parts of the course. Attention will also be given to the performance of research in the field of psychology. Corequisite: EDC420.

PSY 431  
PSYCHOLOGICAL TESTING AND ASSESSMENT  
Spring Semester. 3 semester hours.  
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. Prerequisites: PSY101; and BSA209 or MAT210.

PSY 450  
INTERNSHIP  
Fall and Spring Semesters. 3 semester hours.  
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. Contract required. Prerequisites: PSY305; and PSY306 or PSY350.

PSY 460  
HISTORY OF PSYCHOLOGY  
Spring Semester. Alternate Years. 3 semester hours.  
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. Prerequisites: PSY101 and junior level status.

PSY 490  
SEMINAR IN PHYSIOLOGICAL PSYCHOLOGY  
Spring Semester. Alternate Years. 3 semester hours.  
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 biochemical principles that relate to the human nervous system, understand the physiology involved in phenomena such as sleep, memory, schizophrenia, and depression. Prerequisites: PSY101, one course in biology or one course in chemistry.

Sociology and Anthropology

Ron 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 and Anthropology: A minimum of 30 semester hours is required, including SOC101 or SOC242, SOC240 or SOC241/BIO241, SOC324, SOC409, SOC477, and social science courses in one of the following related fields*:

**PSYCHOLOGY OPTION**: (6 semester hours) one lower-division psychology course and one upper-division psychology course before SOC477. Recommended psychology courses: PSY101 and PSY306.

**ECONOMICS OPTION**: (6 semester hours) one lower-division economics course and one upper-division economics course before SOC477. Recommended economics courses: ECO202 and ECO345.

**POLITICAL SCIENCE OPTION**: (6 semester hours) one lower-division political science course and one upper-division political science course before SOC477. Recommended political science courses: POL101 and POL301.

*NOTES: Courses in a second social science major meet the related field requirement. Courses taken in a minor field can only be used to fulfill both the related field requirement and the minor requirement if the student exceeds the hour requirement for the minor by 6 semester hours. For example, a student majoring in sociology and anthropology with a minor in psychology must take an extra 6 semester hours of psychology or fulfill the related fields requirement in economics or political science.

Major in Sociology and Anthropology Education: A minimum of 30 semester hours is required, including the requirements for the non-teaching sociology major. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog.

Minor in Sociology and Anthropology: A minimum of 18 semester hours is required, with at least 6 at the upper-division level, to include SOC324 unless waived by the program advisor.

Minor in Sociology and Anthropology Education: A minimum of 20 semester hours is required, including the requirements for the major without the related fields or SOC409. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog.

SOC 101
**INTRODUCTION TO SOCIOLOGY**
Fall Semester. 3 semester hours.
A study of 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.

SOC 201
**SOCIAL PSYCHOLOGY**
Fall Semester. 3 semester hours. Cross-listed as PSY201.
A study of 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 enables students to see themselves as both shaping and being shaped by their culture. Attention is also focused on inclusion and diversity. Prerequisite: PSY101.

SOC 240
**ARCHAEOLOGY AND PREHISTORY**
Fall Semester. 3 semester hours.
A survey of archaeological techniques and world prehistory. The Old World is defined as the paleolithic, mesolithic, and neolithic ages; and the origin of cities and development of civilization is explored. The New World is defined as the migration from Asia, archaic cultures, epipaleolithic adaptations, and development of cities and civilization in Central and South America.

SOC 241
**BIOLOGICAL ANTHROPOLOGY**
Spring Semester. 3 semester hours. Cross-listed as BIO241.
History of the theory of evolution, defined as the modern synthetic theory of evolution, population genetics, hominid evolution from the Miocene hominoids to Homo sapiens, primate ethnology, and sociobiology.
SOC 242  
**CULTURAL ANTHROPOLOGY**  
Spring Semester. 3 semester hours.  
An introduction to anthropological analysis of human behavior. Cross-cultural examination of the systemic relations among economic, social, political, and religious behaviors in various cultures.

SOC 244  
**INTRODUCTION TO FLINT KNAPPING**  
Summer Semester. 3 semester hours. Cross-listed as ART245.  
Students manufacture a variety of stone tools to learn about the evolution of prehistoric technology. Obsidian, flint, and bottle glass are worked with stone, antler, bone, and wood to fashion arrowheads, spear points, knives, and scrapers. Normally offered May Term. Non-refundable materials fee required. Prerequisite: permission of professor. Preference to majors and minors.

SOC 310  
**SOCIAL STRATIFICATION**  
Fall Semester. Alternate Years. 3 semester hours.  
A study of the causes and consequences of the differential distribution of power, property, and prestige within social groups. Consideration of conservative as well as radical sociological perspectives on social stratification. Prerequisite: SOC101 or SOC242, or permission of professor.

SOC 317  
**ARCHAEOLOGICAL DIG IN ISRAEL**  
Summer Semester. 6 semester hours.  
Students must register for 3 credits each in two of the departmental areas in which this course is offered. Those areas are history, philosophy and religious thought, and sociology. Students are afforded the opportunity to participate in the archaeological excavations at Bethsaida in Israel for three weeks. They learn the techniques of excavating, recording, dating, and evaluating finds while exploring the history of the region through visits to other archaeological and Biblical sites and through daily lectures. Living accommodations are provided at an Israeli kibbutz where the students intermingle with kibbutzim, gain first-hand experience of kibbutz living, and interview people who have lived for many years in the kibbutz. Several days are spent in Jerusalem where the opportunity is provided to visit Christian sites. Students are taken to the University of Bethlehem to hear a lecture on the Arab situation and to interview Palestinian Arab students.

SOC 321  
**CRIMINOLOGY**  
Spring Semester. Alternate Years. 3 semester hours.  
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 or permission of professor.

SOC 324  
**HISTORY OF SOCIOLOGICAL AND ANTHROPOLOGICAL THEORY**  
Fall Semester. Alternate Years. 3 semester hours.  
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 professor.

SOC 325  
**THE FAMILY**  
Fall Semester. Alternate Years. 3 semester hours.  
A cross-cultural survey of kinship systems, primary group interactions, socialization/enculturation, and parental roles. Examination of the relationship between the family and other social institutions, particularly economics, education, and religion. Prerequisite: SOC101 or SOC242, or permission of professor.

SOC 340  
**INDIANS OF NORTH AMERICA**  
Spring Semester. Alternate Years. 3 semester hours.  
A study of the characteristics and diversity of traditional Native American Indian cultures, including prehistory; the development of cultural areas; and the economic, social, religious, and aesthetic differences within these areas. Historical overview of Indian-White relations and contemporary Indian life. Prerequisite: SOC242 or permission of professor.
SOC 342
DEVIANCE
Spring Semester. 3 semester hours.
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.

SOC 344
INTRODUCTION TO FLINT KNAPPING
Summer Semester. 3 semester hours. Cross-listed as ART345.
Students manufacture a variety of stone tools to learn about the evolution of prehistoric technology. Obsidian, flint, and bottle glass are worked with stone, antler, bone, and wood to fashion arrowheads, spear points, knives, and scrapers. Requirements for SOC344 are the same as for SOC244 with the addition of either 1) a 10-page research paper on prehistoric paleolithic tool manufacturing, or 2) the manufacture of punch struck blade (upper paleolithic) tools. Normally offered May Term. Non-refundable materials fee required. Prerequisite: permission of professor. Preference to majors and minors.

SOC 350
SOCIAL WELFARE
Fall Semester. Alternate Years. 3 semester hours.
An examination of the purposes, philosophy, methods, and values governing the establishment of welfare programs in response to social problems. A survey of social service practice in various social agencies, such as probation, parole, education, welfare, mental health, and institutional care.

SOC 353
INTRODUCTION TO SOCIAL WORK
Spring Semester. Alternate Years. 3 semester hours.
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.

SOC 359
SOCIAL RESEARCH
Fall Semester. Alternate Years. 3 semester hours.
Students complete an independent research project based on course material on the theory, methodology, practice, and ethics of social science research. Prerequisite: SOC324 or permission of professor.

SOC 477
SOCIOCULTURAL ANALYSIS OF RELATED SOCIAL SCIENCE THEORY
Spring Semester. Alternate Years. 3 semester hours.
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. Prerequisites: one lower-division and one upper-division course in a related social science field: psychology, economics, or political science. SOC324 is recommended.

Theatre Arts
Linaya Leaf, Professor
Gerry Roe, Professor
Robert A. Durden, Instructor

The College’s theatre program provides students with a liberal arts-based theatre education. Students explore their many faces through different characters they play using the creative process. The program encourages all students on campus to participate in theatre productions. It is hoped that students will develop a lifelong passion for this collaborative art form. By its very nature, theatre is multi-disciplinary.

The theatre program provides both majors and non-majors with experience as performers, technical contributors, and audience members. Whether building performance skills through the use of the imagination, the senses, emotion, movement, and voice or learning the technical side of theater through set, lighting, and costume design, students use the dramatic text as the basis for analysis. Both the canon and emerging multicultural texts are considered.

Theatre arts offers one major discipline, with two areas of emphasis, and two minors. Students may
focus on performance or technical production. Either emphasis provides intensive professional training while preparing students for graduate school in theatre. Students must select their emphasis by the end of the sophomore year. The theatre teaching minor, in conjunction with all other state requirements, qualifies the student to teach theatre in the secondary schools. The non-teaching minor focuses on general knowledge of theatre production, literature, and history.

**Major in Theatre, Performance Emphasis:** A minimum of 38 semester hours is required, including THR101, THR131, THR132, THR232, either THR242 or THR253, THR250, THR433, THR434, THR471, and THR490. Also required are electives totaling 6 semester hours selected from the following: THR135, THR240, THR332, THR350, THR432, THR440.

**Major in Theatre, Technical Emphasis:** A minimum of 38 semester hours is required, including THR101; THR131; THR132; THR242 or THR253; two of the following three courses: THR310, THR315, or THR320; THR433; THR434; THR471; and THR490. Also required are electives totaling 6 semester hours selected from the following: THR131, THR135, THR137, THR231, or THR250.

**Minor in Theatre Arts:** A minimum of 18 semester hours is required, including THR101, THR131, THR132, THR135, THR137, THR433, THR434.

**Minor in Theatre Arts Education:** A minimum of 28 semester hours is required, including THR101, THR131, THR132, THR203, THR242 or THR434, THR250, THR253, THR420, and THR433. In addition, students must complete the professional education program for secondary teaching (grades 5-12) as described in the “Education” section of the catalog.

**THR 101**
**INTRODUCTION TO THEATRE**
Spring Semester. 3 semester hours.
A survey of the unique world of live theatre. Students will examine the theatre as an art, examining various components of theatre: the actor, the playwright, the designer, the director, the dramatic structure, and the history of theatre.

**THR 110**
**INTRODUCTION TO CINEMA**
Fall Semester. 3 semester hours.
An introduction to the art of the cinema. Topics include history, genre, acting and directing styles, and the industry’s response to cultural issues. *This course is taught only in conjunction with the Rocky Freshman Experience.*

**THR 131**
**STAGECRAFT I**
Fall Semester. Alternate Years. 3 semester hours.
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.

**THR 132**
**BEGINNING ACTING**
Fall Semester. 3 semester hours.
An introduction to the art of acting. Areas of concentration include the development of self-awareness, vocal production, physical flexibility, and emotional exploration. Preparatory exercises and scenes from plays will be incorporated.

**THR 135**
**STAGE MAKE-UP**
Fall Semester. 3 semester hours.
Practical training in the design and application of theatrical make-up. Class projects will include standard, corrective, animal, fantasy, monster, and other make-ups.

**THR 137**
**THEATRE PRODUCTION**
Fall Semester. 1 semester hour.
Participation in theatre productions under the supervision of the theatre faculty. Credit may be given for lighting, set construction, house management, costuming, publicity, and more. Pass/no pass basis only.

**THR 138**
**THEATRE PRODUCTION**
Spring Semester. 1 semester hour.
Participation in theatre productions under the supervision of the theatre faculty. Credit may be given for lighting, set construction, house management, costuming, publicity, and more. Pass/no pass basis only.
THR 203  
**CREATIVE DRAMA**  
On Demand. 3 semester hours.  
Creative drama is a student-centered, process-oriented form of drama in which the focus is on the personal development of the participant rather than on the production of a play before a formal audience. Focus will be on drama exercises which help the student develop skills in building a character, relating to a setting, improvisation, story dramatization, social drama, and applications of this process for more formal theatre work.

THR 231  
**STAGECRAFT II**  
Spring Semester. Alternate Years. 3 semester hours.  
An advanced class offering students practical experience in the areas of carpentry, drafting, property construction, and special effects. Prerequisite: THR131.

THR 232  
**INTERMEDIATE ACTING**  
Spring Semester. Alternate Years. 3 semester hours.  
A continuation of beginning stage acting emphasizing characterization through mask work. Each student will engage in an in-depth study of the vocal, physical, and emotional aspects of a specific character. This character study will culminate in a performance. Prerequisite: THR132.

THR 240  
**VOICE AND DICTION**  
Spring Semester. Alternate Years. 3 semester hours.  
Fundamental concepts of vocal production. An in-depth look at the vocal mechanism and its important to the live stage performance. The course prepares the student to effectively pronounce audible, intelligible speech.

THR 242  
**MODERN DRAMATIC LITERATURE**  
Fall Semester. Alternate Years. 3 semester hours.  
Cross-listed as ENG242.  
A study of the diverse trends in play writing and theatrical performances over the past 100 years as viewed through the works of the major playwrights of Europe and the United States. The focus of the course will be upon script analysis.

THR 247  
**PUPPETRY**  
Spring Semester. Alternate Years. 3 semester hours.  
An examination of 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.

THR 250  
**DIRECTING I**  
Spring Semester. Alternate Years. 3 semester hours.  
An introductory study of the numerous functions of a stage director from play selection to the final performance. This course will emphasize the development of directorial skills. Students will direct a one-act play.

THR 253  
**CLASSICAL DRAMATIC LITERATURE**  
Fall Semester. Alternate Years. 3 semester hours.  
Cross-listed as ENG253.  
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 focus of the course will be script analysis.

THR 310  
**LIGHTING DESIGN**  
Spring Semester. Alternate Years. 3 semester hours.  
A study of the principles, technology, and aesthetics of designing stage lighting. Practical application emphasized. Prerequisite: THR131.

THR 315  
**SCENE DESIGN**  
Spring Semester. Alternate Years. 3 semester hours.  
An advanced course in the principles and aesthetics of generating practical, working designs for the modern stage. Requirements include several models and their justifications. Prerequisite: THR131.

THR 320  
**COSTUMING FOR THE STAGE**  
Spring Semester. Alternate Years. 3 semester hours.  
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.

THR 325
THE ART OF SOUND
Fall Semester. Alternate years. 3 semester hours.
A beginning study of the principles of sound. Students will become acquainted with the components and operation of a theatrical sound system. Projects include designing and applying theatrical sound effects. Other topics include techniques of sound re-enforcement.

THR 332
ADVANCED ACTING
On Demand. 3 semester hours.
An examination and performance of fundamental styles of movement and expression dictated by specific historical periods. Prerequisites: THR132, THR232, and permission of professor.

THR 337
ADVANCED THEATRE PRODUCTION
Fall Semester. 2-3 semester hours.
Participation 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 requires a detailed prospectus and will be given a letter grade. Prerequisites: THR131, THR132, THR137, THR138, and permission of professor.

THR 338
ADVANCED THEATRE PRODUCTION
Spring Semester. 2-3 semester hours.
Participation 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 requires a detailed prospectus and will be given a letter grade. Prerequisites: THR131, THR132, THR137, THR138, and permission of professor.

THR 347
MUSICAL THEATRE
On Demand. 3 semester hours.
An introduction to musical theatre. Study includes such topics as musical conventions historical perspectives, act-ability of musical numbers and staging of numbers. The class will culminate in an evening performance of prepared audition numbers.

THR 350
DIRECTING II
On Demand. 3 semester hours.
Investigation of additional directing techniques, such as coaching actors, style interpretation, and historical theories of directing. The course will culminate in a student-directed full-length play. Prerequisite: THR250.

THR 420
METHODS AND MATERIALS: TEACHING THEATRE ARTS, GRADE 5-12
Fall Semester. 2 semester hours.
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. Corequisite: EDC 420.

THR 432
AUDITION PREPARATION
On Demand. 2 semester hours.
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.

THR 433
THEATRE HISTORY I: BEGINNINGS THROUGH NEO-CLASSICISM
Fall Semester. Alternate Years. 3 semester hours.
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.

THR 434
THEATRE HISTORY II: ROMANTICISM TO THE PRESENT
Fall Semester. Alternate Years. 3 semester hours.
Chronological study of the theatre history 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.

**THR 440**  
**PERFORMANCE**  
On Demand. 1-3 semester hours.  
Students will prepare and perform a major role in an RMC production. Each role must be approved for credit one week after final casting. A daily performance journal and a major analytical 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.

**THR 471**  
**SHAKESPEARE**  
Spring Semester. 3 semester hours. Cross-listed at ENG471.  
An advanced examination of representative Shakespearean plays. The emphasis will be placed equally upon script analysis and the acting process.

**THR 490**  
**SENIOR PROJECT**  
On Demand. 3 semester hours.  
A course designed for seniors as a culmination of study in their area of concentration. Requirements for this course can be met in one of four ways:

1. **Technical:** A student must complete a design for lights, costumes, and/or sets for an RMC or Billings Studio Theatre production. Journals and analysis required;  
2. **Directing:** A student will direct a full-length play during RMC’s main season. Journals and analysis required;  
3. **Acting:** A student will act a major role in a full-length play. Journals and analysis required;  
4. **Play writing:** A student will write a play and arrange for a public reading of that play. Journals and analysis required.

Each project must be approved by theatre faculty prior to the student’s senior year.
Administration and Staff

**President**, Thomas R. Oates, BA, MA, PhD
  Assistant to the President, Pam Erickson
  Coordinator for the Montana Consortium,
  Clarabeth Johnson, BS, MS
  Executive Director of the Rocky Mountain Technology Foundation, Luke Kobold, BS
  Administrator of The Institute for Peace Studies, Cindy Kunz, AA

**Academic Vice President/Provost**, Susan McDaniel, BA, MA, PhD
  Associate Dean for Advising and Assessment, David Reynolds, BM, MM, DMA
  Coordinator of Academic Programs and Assistant to the Academic Vice President, Donna Barone, BS, MEd, MS
  Secretary to Division Chairs, Kaye Jacobson
  Registrar, Janet Alberson, BS, MEd
  Assistant Registrar, Shannon Behounek, BA
  Office Manager, Registrar, Carole Peterson
  Staff Support, Registrar, Diane Croaker
  Articulation Coordinator, Stephanie Erdmann, BA, MS
  Director of Services for Academic Success (SAS), Jane Van Dyk, BA, PhD
  Academic Specialist, Bob Ketchum, BA
  Academic Specialist, Elizabeth McNamer, BA, MA, MA, EdD
  Academic Specialist, Robyn Cummings, BS, MEd
  SAS Administrative Assistant/Academic Specialist, Judy Blakeslee, BS
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  Flight Simulator Instructor/Aviation Technology Manager, William Hegenbarth, BS
  Computer Testing Administrator (Aviation), Diane Cochran, BS
  Director of Flight Operations, Roy Speeg, BS
  Assistant Chief Flight Instructor, Thomas Rainey
  Secretary, Flight Operations, Geralyn Hill
  Flight Instructor, James Hegstrom, BS
  Flight Instructor, Joshua McDowell, BS
  Flight Instructor, Jared Steffan, BS
  PT Flight Instructors: Jonathan McDonald, BA; Blake Ridgeway, Karen Speeg, Shawn Walker

**Vice President for Administration and Finance**, Jon Phillips, BS
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Admissions/Continuing Medical Education Coordinator for the Physician Assistant Program, Rick Norine, BS, BA
Secretary for the Physician Assistant Program, Kara Duke, AA
Medical Director for the Physician Assistant Program, Leonard Etchart, MD
Academic Coordinator for the Physician Assistant Program, Evan A. Thorley, BS, MS, PA-C
Clinical Coordinator for the Physician Assistant Program, Melinda Luce, BS PA-C
Clinical Scientist, Scott Murray, BS, MD
American Indian Student Advisor, Carolyn Pease-Lopez, BA
Controller, Susan Stewart, BS, CPA
Accountant, Caroline Chvilicek, BS
Accounting Clerk, Rose Maddux
Accounts Payable/Payroll Coordinator, Shauna Hohn, BS
Accounts Receivable Representative, Marilyn Kelly-Clark, BA
Cashier, Sara Loch
Director of Central Operations, Leon Bruner, BA
Director of Personnel, Bob Robertson, BA
Personnel Administrator, Cindy Hessler, BS
Director of Computer Operations, Kellee Pierce
Assistant to Director of Computer Operations, Dave Gulbrandson, BA
Director of Physical Plant, Dave Setera, AAS
Office and Staff Assistant, Debby Hayter
Engineer, Bill Defferding
Assistant Engineer/Technician, Randy West
Grounds Foreman, Terry Steiner, BA
Carpenter, Bill Kimmerle
Custodial Supervisor, Joanne Bauwens
Building Maintenance/Custodian, Skip Schott
Custodial Staff: Marlene Brown, Evelyn Defferding, Judy Henderson, Carl Kershner, Teri McWilliams, Maria Robinson, Earl Tate, Crystal Voss

Vice President for Enrollment Management,
Brian Kesse, BA, MA
Director of Admissions, LynAnn Henderson, BS
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Admissions Coordinator, Angie Kunz, BS
Admissions Counselor, Kelli Ames-Smith, BS
Admissions Counselor, Kally Dreikosen, BA
Admissions Counselor, Martha Finnick, BS
Admissions Counselor, Camie Langbehn, BS
Admissions Counselor, Amy Peterson, BS
Graduate Assistant Transfer Recruiter/Event Coordinator, Lois Yoon, BA
Director of Financial Assistance, Lisa Browning, BA
Assistant to Director of Financial Assistance, Jessica Francischetti, BA
Financial Assistance Counselor, Martha Thompson

Vice President for Institutional Advancement,
Jay Forseth, BA, MPE
Office Manager, Carolyn Hayter
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Director of Annual Giving, Mendi Johnson, BA
Director of Alumni and Parent Relations, Lynette Kahalekai, BS

Vice President for Native American Affairs,
Janine B. Pease, BA, BA, MEd, DEd

Vice President for Student Services,
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Secretary for Student Services, JoAnne Haverland
Chaplain, The Rev. Debra Bergeson-Graham, BA, MDiv, DMin
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Secretary for Athletic Department, Bonnie Fifield
Head Varsity Women’s Volleyball Coach, Wade Wells, BS
Assistant Varsity Women’s Volleyball Coach, Jon Knaub
Head Varsity Women’s Basketball Coach, Brian Henderson, BS
Head Junior Varsity Women’s Basketball Coach, J.D. Gustin, BS
Assistant Varsity and Junior Varsity Women’s Basketball Coach, Alisha Hayden, BS
Head Varsity Men’s Basketball Coach, Bill Dreikosen, BA
Assistant Varsity Men’s Basketball Coach, Len Wilkens
Head Junior Varsity Men’s Basketball Coach, Toby Hill, BS
Assistant Junior Varsity Men’s Basketball Coach, Sean Turner
Head Varsity Men’s and Women’s Golf Coach, Randy Northrop, BA
Head Varsity Women’s Soccer Coach, Richard Duffy, BUS, MM
Assistant Varsity Women’s Soccer Coach, Paul Corcoran
Humanities and Fine Arts - Victoria Christie, Chair
  Art
  Communication Studies
  English
  Environmental Studies
  Foreign Languages and Literatures
  Music
  Native American Studies
  Philosophy and Religious Thought
  Theatre Arts

Natural Sciences and Math - Jennifer Lyman, Chair
  Biology
  Chemistry
  Earth and Environmental Science
  Mathematics
  Physician Assistant
  Physics

Social Sciences and Education - Barb Vail, Chair
  Education
  History and Political Science
  Library
  Physical Education and Health
  Psychology
  Sociology/Anthropology


Daniel Albrecht, Associate Professor of Biology (2002). BA, St. Olaf College. MS, University of North Dakota. PhD, University of New Mexico.

James D. Anderson, Visiting Assistant Professor of Business Administration/Economics (1999). BS, Rocky Mountain College. CMT.

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Frederick B. Binckes, Professor of Music (1974). BM, Oberlin Conservatory of Music. MALS, Valparaiso University. DA, Ball State University.


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Faculty (Adjunct)

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Donald Wilson, Adjunct Instructor of Aviation (2001). CFI.


Adjunct Clinical Faculty

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Shane Anderson, PharmD
Tom Anderson, MD
Faranak Argani, MD
Enrico Arguelles, MD
Peter Arosemena, MD
Jeffrey Arpin, MD
Kelly Bagnell, MD
Doug Baldwin, MS
Carrie Barnhart, PharmD
Deland Barr, MD
Roger Barrey, PA-C
Mark Beamer, MD
George Bell, MD
Ron Benner, OD
Thomas Bennett, MD
James Bentler, MD
Edward Bergin, MD
Starla Blank, PharmD
Mindy Boehm, MD
Maurice Brown, MD
Mark Buck, MD
Bob Bunnell, PA-C
Josefito Burgos, MD
Byron Busch, MD

Steven Butler, MD
Patrick Byorth, MD
Paul Byorth, MD
Patrick Cahill, MD
Troy Caldwell, MD
Bruce Campbell, MD
David Carlson, MD
Virginia Ceynar, PA-C
Noah Chelliah, MD
Robert Clayburgh, MD
Carla Cobb, PharmD
Patrick Cobb, MD
Kathy Collins, PA-C
John Cook, MD
John Coon, MD
Guy Copeman, RT
John Craig, MD
Paul Crellin, MD
Greg Cross, MD
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# ACADEMIC CALENDAR 2003-2004

## First Semester - Fall 2003

- New students arrive (Tuesday)  
  - August 19
- New student validation due (Friday)  
  - August 22
- Returning Student validation due (Monday)  
  - August 25
- Classes begin, Internship contracts due (Monday)  
  - August 25
- Late validation penalties in effect (courses deleted and late fee charged)  
  - August 26
- Labor Day Vacation  
  - September 1
- Last day to add a course  
  - September 8
- Last day to drop a course without record on transcript. (all class charges final)  
  - September 8
- Mid-term grades due in office of the registrar  
  - October 15
- Mid-term Break  
  - October 16-19
- Last day to drop a course with a “W”  
  - October 24
- Registration weeks  
  - October 20-31
- Thanksgiving Vacation  
  - November 27-30
- Last day of classes  
  - December 5
- Final examinations  
  - December 8-11
- Final grades due in the office of the registrar by **noon**  
  - December 17

## Second Semester - Spring 2004

- Validation due  
  - January 12
- Classes begin, Internship contracts due (Monday)  
  - January 12
- Late validation penalties in effect (courses deleted and late fee charged)  
  - January 13
- Martin Luther King Day Vacation  
  - January 19
- Last day to add a class  
  - January 26
- Last day to drop a course without record on transcript. (All class charges final)  
  - January 26
- Mid-term grades due in office of the registrar  
  - March 3
- Mid-term Break  
  - March 8-14
- Last day to drop a course with a “W”  
  - March 19
- Registration weeks  
  - March 15-26
- Easter Vacation  
  - April 9-11
- Last day of classes  
  - April 30
- Final examinations  
  - May 3-6
- Baccalaureate  
  - May 7
- Commencement  
  - May 8
- Final grades due in the office of the registrar by **noon**  
  - May 12

**May term**  
- May 10 - May 28

**June term**  
- June 1 - July 2

**Combined term**  
- May 10 - July 2

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Please Note: Registration weeks for fall semester 2004 are March 15 - 26, 2004. See your advisor and submit your schedule to the registrar’s office during this time for priority registration. Returning students not registered for fall semester’s classes by April 30, 2004, will forfeit some and perhaps all of their institutional financial assistance.
### ACADEMIC CALENDAR 2004-2005

#### First Semester - Fall 2004

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>New students arrive (Thursday)</td>
<td>August 26</td>
</tr>
<tr>
<td>New student validation due (Friday)</td>
<td>August 27</td>
</tr>
<tr>
<td>Returning Student validation due (Monday)</td>
<td>August 30</td>
</tr>
<tr>
<td>Classes begin, Internship contracts due (Monday)</td>
<td>August 30</td>
</tr>
<tr>
<td>Late validation penalties in effect (courses deleted and late fee charged)</td>
<td>August 31</td>
</tr>
<tr>
<td>Labor Day Vacation</td>
<td>September 6</td>
</tr>
<tr>
<td>Last day to add a course</td>
<td>September 13</td>
</tr>
<tr>
<td>Last day to drop a course without record on transcript. (all class charges final)</td>
<td>September 13</td>
</tr>
<tr>
<td>Mid-term grades due in office of the registrar</td>
<td>October 20</td>
</tr>
<tr>
<td>Mid-term Break</td>
<td>October 21-24</td>
</tr>
<tr>
<td>Last day to drop a course with a “W”</td>
<td>October 29</td>
</tr>
<tr>
<td>Registration weeks</td>
<td>October 25-November 5</td>
</tr>
<tr>
<td>Thanksgiving Vacation</td>
<td>November 25-28</td>
</tr>
<tr>
<td>Last day of classes</td>
<td>December 10</td>
</tr>
<tr>
<td>Final examinations</td>
<td>December 13-16</td>
</tr>
<tr>
<td>Final grades due in the office of the registrar by noon</td>
<td>December 22</td>
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</tbody>
</table>

#### Second Semester - Spring 2005

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Validation due</td>
<td>January 10</td>
</tr>
<tr>
<td>Classes begin, Internship contracts due (Monday)</td>
<td>January 10</td>
</tr>
<tr>
<td>Late validation penalties in effect (courses deleted and late fee charged)</td>
<td>January 11</td>
</tr>
<tr>
<td>Martin Luther King Day Vacation</td>
<td>January 17</td>
</tr>
<tr>
<td>Last day to add a class</td>
<td>January 25</td>
</tr>
<tr>
<td>Last day to drop a course without record on transcript. (All class charges final)</td>
<td>January 25</td>
</tr>
<tr>
<td>Mid-term grades due in office of the registrar</td>
<td>March 9</td>
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<tr>
<td>Mid-term Break</td>
<td>March 7-11</td>
</tr>
<tr>
<td>Last day to drop a course with a “W”</td>
<td>March 22</td>
</tr>
<tr>
<td>Registration weeks</td>
<td>March 21-April 1</td>
</tr>
<tr>
<td>Easter Vacation</td>
<td>March 25-27</td>
</tr>
<tr>
<td>Last day of classes</td>
<td>April 29</td>
</tr>
<tr>
<td>Final examinations</td>
<td>May 2-5</td>
</tr>
<tr>
<td>Baccalaureate</td>
<td>May 6</td>
</tr>
<tr>
<td>Commencement</td>
<td>May 7</td>
</tr>
<tr>
<td>Final grades due in the office of the registrar by noon</td>
<td>May 11</td>
</tr>
</tbody>
</table>

**May term**                                               | May 9 - May 27 |
**June term**                                              | June 6 - July 8 |
**Combined term**                                          | May 9 - July 8 |

Please Note: Registration weeks for fall semester 2005 are March 21 - April 1, 2005. See your advisor and submit your schedule to the registrar’s office during this time for priority registration. Returning students not registered for fall semester’s classes by April 22, 2005, will forfeit some and perhaps all of their institutional financial assistance.
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