Flathead Valley Community College

2013-2014 Academic Catalog

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FVCC reserves the right to change its policies and fees, and revise curricula in this catalog at any time during the period this publication is in effect. For the most current revisions, visit our web site at: www.fvcc.edu.

This catalog is published by Flathead Valley Community College as a guide for students, faculty and others. Students are expected to be familiar with the college regulations and information which are set forth in this publication. This catalog is effective beginning fall 2013. Each student is entitled to one copy of the catalog at time of initial enrollment.

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Accommodations for persons with disabilities can be provided upon request by calling (406) 756-3881. Any qualified student with a disability who believes that an auxiliary aid is necessary for participation in any course activity or degree program is strongly urged to indicate a need for services to the Specialist, Disabilities Services and Assessment a minimum of six weeks prior to the beginning of the academic semester. This will provide sufficient time to assess student need and obtain any necessary auxiliary aid. For more information, please call (406) 756-3881 (voice or TTY).

Flathead Valley Community College does not discriminate on the basis of race, color, national origin, sex, age or handicap in admission or access to, or treatment or employment in its educational programs or activities. Inquiries concerning Title VI, Title IX and Section 504 may be referred to: Vice President of Instruction and Student Services, Blake Hall, Rm. 136, 777 Grandview Drive, Kalispell, MT 59901, (406) 756-3894; or the Montana Human Rights Commission, 1236 Sixth Avenue, P.O. Box 1728, Helena, MT 59624, (406) 444-2884/1-800-542-0807.

Fall Semester 2013

August 9	(F)	Tuition Due: Early Registered Students
Aug. 12-Aug. 21**		General Registration: Running Start Students
Aug. 13-Aug. 21		General Registration: New and Returning Students
August 19	(M)	Pick up Reserved Textbooks
August 21	(W)	College In-service (College Closed from 8-10 a.m.)
August 22, 23	(Th,F)	Advising/Late Registration: All Students (ECC Closed)
August 26	(M)	Semester Begins
August 30	(F)	Last Day to Register or Add Full Semester Classes without Instructor's Signature
September 2	(M)	Labor Day Holiday (College & ECC Closed)
September 6*	(F)	Last Day to Return Textbooks for a Full Refund in College Bookstore
September 9	(M)	Last Day to Add Full Semester Classes (Instructor's Permission Required)
September 9	(M)	Last Day to Drop Full Semester Classes and Receive a Partial Refund
September 16	(M)	Last Day to Drop Full Semester Classes without a "W" grade recorded
October 14	(M)	Columbus Day (Classes will Meet)
October 18	(F)	ECC Closed
November 11	(M)	Veterans' Day Observed (Classes will Meet)
November 18	(M)	Last Day to Drop or Request/ Rescind an Audit Grade for Full Semester Classes
November 19	(T).	Early Online Registration Begins, Spring 2014: Limited Student Access
November 19	(T)	Early Registration Begins, Spring 2014: Sophomores
November 20	(W)	Early Registration Begins, Spring 2014: Returning Students
November 22	(F)	Graduation Applications Due
November 28, 29	(Th, F)	Thanksgiving Holiday (No Classes/College & ECC Closed)
December 3	(T)	Early Registration Begins, Spring 2014: New Students
December 10**	(T)	Early Registration Begins, Spring 2014: Running Start Students
December 11-13, 16-18*		Textbook Sell Back in College Bookstore
December 16-18	(M-W)	Finals
December 18	(W)	Semester Ends
Dec. 23 - Jan. 2		Semester Break (College & ECC Closed)

**Certain conditions must be met. See the College Bookstore for further details.*

*** Dates are subject to change.*

Spring Semester 2014

January 3-15		General Registration: All Students
January 6-17		Interim Session
January 8	(W)	Tuition Due: Early Registered Students
January 13-15	(M-W)	Pick up Reserved Textbooks
January 16	(Th)	Advising/Late Registration: All Students
January 17	(F)	College In-service (College Closed from 8-10 a.m./ECC Open)
January 20	(M)	Martin Luther King Holiday (College & ECC Open)
January 20	(M)	Semester Begins
January 24	(F)	Last Day to Register or Add Full Semester Classes without Instructor's Signature
January 31*	(F)	Last Day to Return Textbooks for a Full Refund in College Bookstore
February 3	(M)	Last Day to Add Full Semester Classes (Instructor's Permission Required)
February 3	(M)	Last Day to Drop Full Semester Classes and Receive a Partial Refund
February 7	(F)	Last Day to Drop Full Semester Classes without a "W" grade recorded
February 17	(M)	Presidents' Day Holiday (College & ECC Closed)
February 26	(W)	Graduation Applications Due
March 4**	(T)	College for a Day (No Classes)
Mar. 31-April 4	(M-F)	Spring Break (No Classes)
April 4	(F)	College Holiday (College & ECC Closed)
April 8	(T)	Early Online Registration Begins, Summer 2014: Limited Student Access
April 8-June 6		Early Registration, Summer 2014: New and Returning Students
April 15	(T)	Last Day to Drop or Request an Audit for Full Semester Classes
April 21	(M)	Early Online Registration Begins, Fall 2014: Limited Student Access
April 21	(M)	Early Registration Begins, Fall 2014: Sophomores
April 22	(T)	Early Registration Begins, Fall 2014: Returning Students
April 30-June 6**		Early Registration, Summer 2014: Running Start Students
May 8-9,12-14		Textbook Sell Back in College Bookstore
May 12-14	(M-W)	Finals
May 14	(W)	Textbook Rentals Due in Bookstore
May 14	(W)	Semester Ends
May 16	(F)	Commencement

Summer Semester 2014

May 19-June 6	.....	Interim Session
May 23	(F)	Tuition Due: Early Registered Students
May 26	(M).....	Memorial Day Holiday (College & ECC Closed)
June 2-4	(M-W) ..	Pick up Reserved Textbooks
June 9	(M).....	Semester Begins
June 9-July 11	.....	Session A
June 11*	(W)	Last Day to Return Textbooks for a Full Refund in College Bookstore
June 13	(F)	Last Day to Register or Add Full Semester Classes without Instructor's Signature
June 23	(M).....	Last Day to Add Full Semester Classes (Instructor's Permission Required)
June 23	(M).....	Last Day to Drop Full Semester Classes and Receive a Partial Refund
June 27	(F)	Last Day to Drop Full Semester Classes without a "W" grade recorded
July 4	(F)	Fourth of July Holiday (College & ECC Closed)
July 14-August 15	.....	Session B
July 21	(M).....	Graduation Applications Due
July 29	(T)	Last Day to Drop Classes or Request/Rescind an Audit Grade for Full Semester Classes
August 13-15	(W-F)	Textbook Sell Back in College Bookstore
August 15	(F)	Textbook Rentals Due in Bookstore
August 15	(F)	Semester Ends

**Certain conditions must be met. See the College Bookstore for further details.*

Mission, Operations, Facilities Philosophy

Community colleges are the embodiment of the nation's democratic ideal of opportunity for all and are dedicated to the belief that free citizens succeed through access, effort and ability. Flathead Valley Community College fulfills that democratic ideal of opportunity through a philosophy of providing open-door admissions, education in the local community at an affordable cost, continued assistance and guidance to students and commitment to the comprehensive community college concept.

Flathead Valley Community College, as an integral part of the community it serves, works as a partner with local governments, businesses, industries and other educational providers to promote economic, cultural and social development.

The Flathead Valley Community College Board of Trustees is committed to bringing together the resources necessary to implement these ideals for the people of Flathead and Lincoln counties and Northwest Montana.

Mission

Flathead Valley Community College promotes excellence in lifelong learning, focusing on student success and community needs.

Goal #1

To provide educational programs and courses that prepare students for transfer to other post-secondary institutions, for the workforce and for citizenship

Goal #2

To increase lifelong learning opportunities for students and the community

Goal #3

To be responsive to the community's economic and workforce training needs

Goal #4

To promote programs and activities that enhance the cultural and social well-being of students and the community

Goal #5

To foster a positive learning and working environment and provide support services for student success

Core Themes

FVCC has identified four core themes that individually manifest essential elements of its mission. Each element serves as an important component of lifelong learning. Collectively, the core themes encompass lifelong learning supporting FVCC's role as a comprehensive community college.
The four core themes are:

1. Transfer preparation;
2. Workforce preparation;
3. Developmental education; and
4. Community education.

Strategic Initiatives

At FVCC, we will:

- Add value to students' lives;
- Provide meaningful learning experiences;
- Excel as a preferred community and regional resource;
- Increase resources to support continuous growth and improvement;
- Foster a climate that enhances the well-being and productivity of college employees;
- Continue to serve as an accountable steward of public funds and trust; and
- Maintain facilities and infrastructure to meet changing community needs.

About FVCC

Flathead Valley Community College (FVCC) is located in the northwest corner of Montana and is surrounded by pristine alpine lakes and rivers and panoramic views of Glacier National Park and the spectacular Rocky Mountains. Established in 1967, FVCC is the largest of Montana's three comprehensive two-year public community colleges. The main campus, located in Kalispell, and the Extended Learning Division, housed in Libby, serve a population of over 110,000 distributed over 5.6 million acres, an area larger than the state of Massachusetts. Both campuses provide maximum access for students with disabilities.

Accredited by the Northwest Commission on Colleges and Universities, FVCC prides itself on providing the value of a private education at an affordable cost. The college excels in preparing students to transfer to colleges and universities in Montana and beyond through its highly qualified faculty and offerings of Associate of Arts and Associate of Science two-year degrees. FVCC also offers Associate of Applied Science degrees and certificates in over 50 career and technical fields that prepare students to enter rewarding careers immediately following graduation.

FVCC provides opportunities for area high school students to enroll in dual-credit courses through the Running Start program, for individuals seeking advanced degrees through partnerships with Montana four-year colleges and universities and for community members of all ages through affordable and enriching non-credit classes.

During fiscal year 2012, FVCC awarded 2,106 students $14,351,314 in financial assistance. The college maintains a small classroom environment with the average student to faculty ratio of 16 to one, enabling faculty to provide personalized attention to every student.

History

On April 1, 1967, the voters of Flathead County approved the creation of a community college district in accordance with Montana laws pertaining to community colleges. In 1983, the voters of Lincoln County agreed to create a community college service region of FVCC to serve the residents of Lincoln County. In 1985, the Lincoln County Campus was accredited by the Northwest Association of schools and colleges as an extension campus.

Following the successful bond election in 1988 to construct a new campus, the Kalispell Campus was dedicated in fall 1990. In 2001, the college acquired an additional 48 acres adjacent to its present site.

In May 2001, FVCC's Lincoln County Campus acquired the United States Forest Service building in Libby and moved to its new 27,400 square-foot facility. The facility was dedicated in January 2002.

With the successful passage of a $15.8 million bond election in December 2002, FVCC's Kalispell Campus responded to record enrollments by planning to construct three new buildings. In September 2004, Lincoln County Campus opened the RUS Distance Learning Classroom and Lab, expanding educational opportunities to students in Eureka and Troy.

In September 2005, the college broke ground on three new buildings: Occupational Trades Building completed in January 2007; Arts and Technology Building completed in August 2007; and Early Childhood Center completed in January 2008.

In January 2006, the college completed a land transaction, trading 25 acres of its northernmost property for 109 acres, a payment of $300,000 and an additional $250,000 for easements. The transaction nearly doubled the size of the Kalispell campus from 109 acres to 209 acres. Another seven-acre parcel was added in 2010, increasing the total campus acreage to 216.

In 2011, the FVCC Foundation received a $4 million gift from the Broussard family to construct a new nursing and health science building in memory of Rebecca Chaney Broussard, a former nurse and philanthropist. With the help of the FVCC and greater community, the FVCC Foundation raised the additional $1 million needed to complete the construction of the building. In April 2013, the college dedicated the Rebecca Chaney Broussard Center for Nursing and Health Science, the first privately-funded building on the FVCC campus.

Governance

Flathead Valley Community College is governed by a seven-member Board of Trustees. The trustees are elected by the citizens of Flathead County. Members serve three-year terms on a rotating basis with elections held yearly on the Tuesday following the first Monday in May.

The trustees are charged with the primary responsibilities of setting college policies and selecting a president to administer the operations of the institution.

FVCC operates under the general supervision of the Montana University System's Board of Regents.

Finance

All Funds

Flathead Valley Community College receives funding from federal, state and local sources. The total budget authority is based on projected student enrollments and determined according to a formula. State of Montana appropriations, state and federal grants and local sources (i.e. county taxes, student tuition and other income) provide funding for FVCC.

Continuing Education

Non-credit continuing education classes and activities are self-supportive. Student and participant fees are used to pay the salaries of instructors. A one-million dollar adult education levy supplies overhead costs for non-credit programming in Flathead and Lincoln counties.

Accreditation and Memberships

Flathead Valley Community College is accredited by the Northwest Commission on Colleges and Universities. The college is an institutional member of various organizations, including American Association of Community Colleges, Association of Community College Trustees, Montana Association of Community College Trustees, Mountain States Association of Community Colleges, Association of Student Financial Aid Administrators, Kalispell Chamber of Commerce, Columbia Falls Chamber of Commerce, Bigfork Chamber of Commerce, Whitefish Chamber of Commerce, Lakeside and Somers Chamber of Commerce, Libby Area Chamber of Commerce and Eureka Chamber of Commerce.

The surveying program has been approved by the State Board of Professional Land Surveyors as meeting the educational requirements for state approval for professional surveyors. The surgical technology program is accredited through the Commission on Accreditation of Allied Health Programs (CAAHEP), in cooperation with the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC-STSA).

The medical assistant program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (AAMAE). The practical nursing and ASN program is approved through the Montana State Board of Nursing. Students who graduate from either program are eligible to take the National Council Licensure Examination (NCLEX-PN or NCLEX-RN). The Paramedicine program is accredited through the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions through the Commission of Accreditation of Allied Health Education.

Facilities

Kalispell Campus

Flathead Valley Community College, situated on 216 acres, provides students an outstanding education in cutting-edge facilities. Architecture for the campus emphasizes the natural beauty of the surrounding area with panoramic views of Glacier National Park, Whitefish Mountain Resort at Big Mountain and the expansive Columbia Mountain Range.

In marked contrast to its breathtaking surroundings, the campus provides students with an intimate educational environment. Individual classrooms were strategically planned for approximately 30 students to continue the college's tradition of small classes and personalized attention. Classrooms and labs are integrated throughout the campus and situated within close proximity to faculty offices.

The campus provides maximum access for persons with disabilities throughout its facilities.

Blake Hall (BH)

Blake Hall serves as the college's administration building. The building is home to the newly remodeled Eagle's Nest Cafe, Campus Grounds and the FVCC Bookstore. In addition to accessing information about FVCC and its numerous student services, students can register for classes, pay their bills, purchase books and supplies, grab a cup of coffee or a bite to eat, or join intramurals, service learning or other extracurricular activities. Student Government and the student lounge are conveniently located between the Eagle's Nest Cafe and bookstore.

Learning Resource Center (LRC)

A wide variety of support services are available to students in the Learning Resource Center, including tutoring, academic/career/transfer/personal counseling and job placement. In addition to classrooms, the LRC houses the Library, Media Center, Adult Basic Education (ABE) program office, math and language arts lab, Carl Perkins and TRIO programs, University of Great Falls programs, and the Teaching Excellence Center.

Business and Social Science (BSS)

State-of-the-art computer labs are located in the BSS building. Linked together by one central file server, the labs provide classroom instruction in a variety of computer programming and applications courses as well as Internet courses. The building also houses classrooms, two ITV classrooms, faculty offices for business and social science programs and The Scholars Program.

Ross Hall (RH)

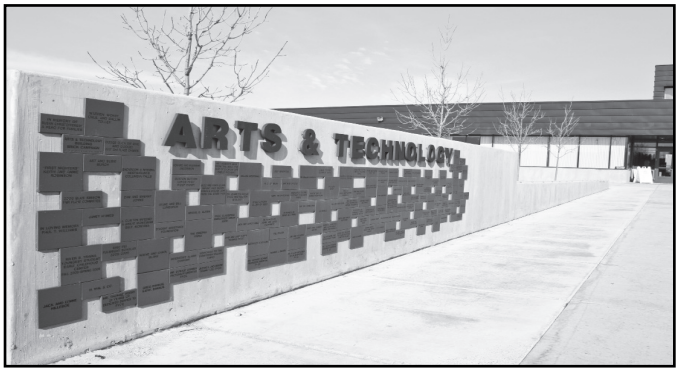
Integrated with their respective classrooms, newly remodeled science laboratories in Ross Hall provide students with hands-on, cutting-edge, interactive learning experiences. Math and Science division faculty offices are also housed in the building.

Occupational Trades (OT)

The OT building provides students with a fully-equipped environment for hands-on training and learning. The building is home to trades programs, including electrical; nondestructive testing; manufacturing, metal fabrication and woods products; heating, ventilation and air conditioning; welding; boiler operations; heavy equipment operations and maintenance; industrial technology computer numerical control (CNC); and cabinet and furniture technology. The building is equipped with six shop bays, classrooms, a computer lab, student resource area and student conference room.

Arts and Technology (AT)

The AT building provides additional classroom space with state-of-the-art technology. The facility houses one large and two small community meeting rooms with cutting-edge technologies for workforce training and student instruction. It also contains a fully-equipped instructional kitchen for The Culinary Institute of Montana and a black box instructional theatre with seating to accommodate up to 200 people for the theatre arts program. The facility is home to all of the college's art classes, the FVCC Student Art Gallery, *The Mercury News* student newspaper, and the Continuing Education Center. The AT building also houses faculty offices for the Humanities division.



Early Childhood Center (ECC)

The Early Childhood Center is a 7,140 square-foot, state-of-the-art development center that serves as a learning lab for FVCC students pursuing careers in early childhood education, elementary education, psychology, human services and social work. The curriculum that is used was developed in conjunction with the college's Early Childhood Education program and is taught by highly-qualified teachers. The Center is open to infants, toddlers and preschool-aged children. Registration is by appointment only and can be done by calling (406) 756-3991. For more information, see Campus Childcare on page 23.

Maintenance Storage

The Maintenance Storage building, a 10,000 square-foot facility, houses the Maintenance and Custodial Department and is also used for general campus storage.

Rebecca Chaney Broussard Center for Nursing and Health Science (BC)

The Rebecca Chaney Broussard Center for Nursing and Health Science is the newest facility on the FVCC campus and is the college's first privately-funded building. The 32,000 square-foot facility is home to the college's practical nursing, registered nursing, paramedicine, emergency management, physical therapist assistant, surgical technology, and medical assistant programs. The building also houses the college's Student Health Clinic, which provides affordable basic health care services for FVCC students.

Student Housing

Flathead Valley Community College offers limited student housing. The Spruce Wood Apartments, located approximately one mile from campus, consist of units for single students (maximum of two full-time students per unit) and units for legally married students or families (maximum of four occupants per unit including one full-time student). Each of the 15 two-bedroom apartments includes free Internet and television access and is furnished with a refrigerator, stove and oven.

Additionally, FVCC maintains a housing list that is updated weekly. To obtain a student housing application or current housing list, call (406) 756-3942 or visit the Admissions Office in Blake Hall or www.fvcc.edu/housing.html

Lincoln County Campus (LCC)

The Lincoln County Campus of FVCC, located in Libby, provides access to the beautiful Cabinet Mountains, alpine lakes, and the famous Koocanusa Reservoir. The facility is home to LCC's administrative offices, nine classrooms, an art lab, science lab and three computer laboratories in addition to the Glacier Bank Adult Basic Education Learning Center and the Academic Reinforcement Center. The single-story, remodeled building is accessible to persons with disabilities and provides a comfortable, pleasant learning environment. LCC offers students a variety of ways to earn a degree or certificate. Students may opt to (1) attend live-site classes in Libby and Troy, (2) take online classes, and/or (3) take courses via interactive teleconferencing.

Lincoln County Library

The Lincoln County Library serves as a resource center for the Lincoln County Campus. The library has an extensive collection of books and periodicals available to students and is connected electronically with a network of university libraries providing extraordinary access to academic data.

Lincoln County Academic Reinforcement Center

Free tutorial services are available to all students enrolled at the Lincoln County Campus. A full-time professional tutor provides individual or small group instruction on most course offerings. Research tools such as style guides and Internet access are available in a modern computer lab with seven workstations.

*Note: Students who are admitted to college under the "Ability to Benefit" guideline are not eligible for federal financial aid.

Admissions

Marlene Stoltz, Registrar/Admissions Coordinator,
Blake Hall, Room BH 111 - (406) 756-3846 mstoltz@fvcc.edu

Flathead Valley Community College has an "open door" policy for those who are 16 years or older. FVCC does not discriminate on the basis of age, color, religion, creed, disability, marital status, veteran status, national origin, gender or sexual orientation in the education programs and activities which it operates. FVCC encourages individuals to seek admission into the college if they feel their educational needs will be met by the programs and services offered by the college. The admissions process is based on self-selection, and students may apply at any time throughout the year.

Admission to a degree/certificate program shall be open to anyone who has earned a high school diploma from an accredited high school or received a GED certificate. Exceptions may be made for students enrolled in Running Start/Dual Enrollment Programs. Exceptions will be approved by the Registrar/Admissions Coordinator.

It's Easy to Enroll! – Apply Early –

For non-degree students, a complete admission file consists of the following:

- A completed *Application for Admission* form;
- Measles, mumps and rubella (MMR) immunization records for anyone born on or after January 1, 1957 **if taking six (6) or more credits a semester;** and
- Residency verification when required.

For degree students, a complete admission file includes:

- A completed *Application for Admission* form.
- **After application for admission has been submitted, the following records must be provided:**
  1. Official high school transcript, unless completed an AA/AS or bachelor's degree from a regionally accredited college; GED certificate or high school equivalency diploma; or "Ability to Benefit" (take a placement test at the Learning Center for verification)*;
  2. Official copies of all college transcripts or a high school equivalency diploma;
  3. College placement scores ;
  4. MMR immunization records for anyone born on or after January 1, 1957; and
  5. Residency verification when required.

Application and records will be held for one year after which one must re-apply and re-submit all records.

Selective program admission: FVCC has additional requirements for selective programs. To be considered for selective program admission, applications must be submitted to the Admissions and Records Office by the appropriate deadlines. Currently, our selective programs include:

- Culinary Arts;
- Medical Assistant;
- Paramedicine;
- Physical Therapist Assistant;
- Practical Nursing;
- Radiologic Technology;
- Registered Nursing;
- Surgical Technology; and
- Surveying

Application deadlines and requirements for admission into selective programs vary by program. Contact the Admissions and Records Office by calling (406) 756-3846 for more information.

Steps to FVCC Enrollment for Home School Students and Students under the Age of 16.

An applicant under the age of 16 is required to complete the following:

1. Contact the Registrar/Admissions Coordinator by calling (406) 756-3846 to petition the Admissions and Records Office for an exception.
2. Complete the following:
   a. Provide written permission from parents;
   b. Complete the COMPASS test and call (406) 756-3880 to meet with a college counselor and have scores evaluated to determine college readiness. (Subject to federal guidelines for "Ability to Benefit");
   c. Submit a non-degree *Application for Admission* form and provide required immunization records; and
   d. Obtain instructor's signature before registering for classes.
3. The applicant should also acknowledge the following guidelines:
   a. A maximum of six credits can be taken the first term;
   b. He/she will be enrolled as "non-degree" status until he/she has reached 16 years of age and has successfully completed the GED or high school equivalency diploma. At that point, the student can be enrolled as "degree" status;
   c. Because of federal regulations, financial aid is not available until he/she is 16 years of age; and
   d. An instructor in any course in which he/she is enrolled can recommend withdrawal if the student is not socially and/or emotionally mature enough to fully benefit or if his/her participation in the course should in any way slow the normal progress of the course.

An applicant who is 16 years of age or older or has graduated from a religious/private school not accredited by the state of Montana, is required to provide the following:

1. Completed *Application for Admission* form and required immunization records;
2. A copy of his/her GED certificate or high school equivalency diploma or proof of completion of the COMPASS test. Call the college counselor at (406) 756-3880 to schedule an appointment for test score evaluation and to determine college readiness. (Subject to federal guidelines for "Ability to Benefit"); and
3. Complete financial aid forms if applying for financial aid.

Admission of International Students

Flathead Valley Community College is authorized under federal law to enroll non-immigrant alien students. The college is not prepared to teach English to international non-English speaking students; therefore, each international applicant is required to furnish the following documents in order to be considered for admission as a full-time/degree-seeking student:

1. A completed *Application for Admission* form;
2. TOEFL (Test of English as a Foreign Language) scores from an accredited testing service. A minimum score of 500 for the paper-based test, minimum score of 173 for the computer-based test or a minimum score of 61 for the internet-based test is the acceptable standard. More information about TOEFL may be obtained from the Educational Testing Service, Princeton, NJ 08540. FVCC is a TOEFL test center;
3. Proof of completion of the equivalent of an American high school education with satisfactory grades ;
4. "Declaration of Finances" or other evidence of funds necessary to pay all living expenses and travel to and from Flathead Valley Community College (approximately $17,600) or the signature of a United States citizen who will sign as a sponsor and benefactor;
5. A physician-validated immunization record for measles, rubella, diphtheria, tetanus and skin testing for tuberculosis. This evidence must be presented before a student is permitted to register; and
6. Evidence of a student accident and sickness insurance policy or one of equal coverage for each semester in attendance at FVCC.

After an applicant has completed all of the above items and returned the required forms, his/her admission file will be reviewed for either acceptance or denial of admission. Upon acceptance, FVCC will issue an I-20 Certificate of Eligibility for non-immigrant "F-1" student status, which will allow the applicant to obtain a student visa.

All international students pay out-of-state tuition.

Running Start

The Running Start program provides eligible high school juniors and seniors the opportunity to get an affordable "running start" on their college education. Classes are offered at a significantly reduced cost. FVCC has teamed up with high schools in Flathead and Lincoln Counties to offer students the option to earn high school and college credits simultaneously through dual credit courses. High school students can elect to earn only college credit while enrolled in the Running Start program.

Classes taken at the college as part of the Running Start program are limited to college-level classes numbered 100 or above.

Students must maintain a cumulative grade point average of 2.0 or higher at FVCC to continue in the Running Start program. Running Start courses are the beginning of the student's college education and will remain on the student's college transcript.

Interested students should contact their high school counselors for information. Each participating high school determines course acceptance and credit equivalency.

For more information regarding enrollment procedures, contact Elizabeth Romain at (406) 756-3923 or eromain@fvcc.edu.

Immunizations

Montana law requires immunization records from all students born on or after January 1, 1957. Proof of two doses of measles, mumps and rubella (MMR) immunizations must be provided before students can be allowed to register. To fulfill this requirement, applicants must meet the following guidelines:

1. If high school required records of immunization are not available, records from physicians' offices or health departments may be substituted with official signatures to verify authenticity.
2. If no records are available, applicants are required to be immunized and submit written medical verifications signed by licensed physicians or provide notorized religious forms or medical exemption forms, or provide blood test results showing immunity.

Residency

In-District Students:

- Include students who have lived in the college district (Flathead or Lincoln County) for one continuous year;

or

- Are dependents whose parents have had permanent residence in the college district for one continuous year;

or

- Own, reside and pay taxes on real property located within the college district;

or

- Are dependents whose parents own, reside and pay taxes on real property located within the college district.

also

In order to be declared a resident, in-district or in-state:

- A student must be able to **provide clear evidence** he/she is a resident of the district and intends to remain **permanently** and **indefinitely** in the college district; and
- Provide evidence he/she has **taken all reasonable steps to establish residency** (i.e. has registered automobile, has registered to vote, has obtained state driver's license) within 60 days after moving to the state.

In-State Students:

- Include students who have been permanent residents of Montana for **one continuous year**, real property taxpayers in Montana who live in the state or dependents of Montana residents who do not qualify as in-district.

Out-of-State Students:

- Include students who are not Montana residents or who are not dependents of Montana residents;

or

- Are real property taxpayers of Montana but are not Montana residents.

The above qualifications do not apply to international students. See the section on international students on page 8 for more information.

The Board of Regents policy is followed if issues arise that are not covered by FVCC residency requirements.

For further information about admission to FVCC, visit the Admissions and Records Office in BH 111, or call (406) 756-3846.

Change of Residence Status

An individual wanting to change residency status is required to change status prior to registering for the upcoming semester. **No exceptions will be made.**

For tuition and fee purposes, an individual wanting to change from **in-state to in-district** (Flathead or Lincoln County) status is required to:

1. **Provide clear evidence** he/she has been a resident for one continuous year in Flathead or Lincoln County and intends to remain **permanently and indefinitely** in the college district.

For tuition and fee purposes, an individual wanting to change from **out-of-state to in-district** (Flathead or Lincoln County) status is required to:

1. **Apply for Montana driver's license within 60 days of moving here;**
2. Provide proof of one continuous year of residency in Flathead or Lincoln County;
3. Provide proof he/she is making Flathead or Lincoln County his/her permanent residence (a Montana driver's license, automobile registration and voter registration); **AND**
4. **Remain in part-time status** (six or less credits a semester) for the first year. Residency cannot be established while taking seven or more credits a semester.

For tuition and fee purposes, an individual wanting to change from **out-of-state to in-state** status is required to:

1. **Apply for Montana driver's license within 60 days of moving here;**
2. Provide proof of one continuous year of residency in the state of Montana;
3. Provide proof he/she is making Montana his/her permanent residence (a Montana driver's license, automobile registration and voter registration); **AND**
4. **Remain in part-time status** (six or less credits a semester) for the first year. Residency cannot be established while taking seven or more credits a semester.

Students registering for the first time should contact the Admissions and Records Office at (406) 756-3846 for residency information.

Residency Exchange/WUE

Flathead Valley Community College particpates in the Western Undergraduate Exchange (WUE), a program of the Western Interstate Commission for Higher Education and other western states. Through WUE, certain students not residing in Montana may enroll at FVCC in designated programs, paying in-state tuition plus 50 percent (plus other fees that are paid by all students).

Application must be made to the Admissions and Records Office no later than **two weeks before registration**.

The participating states are Alaska, Arizona, Colorado, Hawaii (four-year colleges only), Idaho, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington and Wyoming. Because FVCC participates, residents of Montana may enroll under the same terms in designated institutions and programs in other participating states.

Students attending under the WUE classification are not allowed to calculate the time as a WUE student toward in-district or in-state residency.

Information about WUE programs may be obtained from the Admissions and Records Office at (406) 756-3846.

Montana residents may obtain information about WUE programs in other states from The Office of the Commissioner of Higher Education, 2500 Broadway, Helena, MT 59620, (406) 444-6570; or from WICHE Student Exchange Program, P.O. Drawer P, Boulder, CO 80301-9752, (303) 497-0210.

Placement Tests

Learning Resource Center
Room LRC 129 - (406) 756-3880

Degree-seeking and/or full-time students who plan to take math or English classes **are required** to complete the COMPASS placement test. Testing is scheduled by appointment in the Learning Center. The test is used for placement purposes only.

Advisors use the COMPASS test scores to determine accurate course placements which maximize students' successes. Test scores guide placement in specific English and math courses as well as evaluating preparation for courses with significant demands in the area of reading. Scores are not kept on the students' permanent transcripts and do not affect grades.

Call the Learning Resource Center at (406) 756-3880 to schedule an appointment. Allow 2-3 hours for testing.

Registration

Sharon Nau, Associate Registrar/Systems Analyst
Blake Hall, Room BH 115 (406) 756-3845 - snau@fvcc.edu

How to Register

To register for classes, a student is required to complete the following process:

1. Complete an *Application for Admission* form and return it to the Admissions and Records Office or apply online at www.fvcc.edu. (This should be done only when the student initially enrolls);
2. Complete COMPASS placement testing;
3. Review the semester course schedule online at www.fvcc.edu; and
4. New students will meet with a Learning Center advisor, while returning students will meet with their assigned advisor to register online or sign a registration form. To obtain the name of the assigned advisor, contact the Admissions and Records Office at (406) 756-3846. **The Registrar/Admissions Coordinator or the Associate Registrar is required to approve course loads over 18 credits.**

Non-degree students can register by mail, fax at (406) 756-3965 or online at www.fvcc.edu. Registrations are required to be accompanied by check, money order, VISA, Master Card, Discover, American Express or online at www.fvcc.edu for payment of tuition and fees.

Students registering during general registration are required to make arrangements for payment of tuition and fees on the day they register. At least one-fourth of tuition and fees is due at registration for fall and spring semesters.

Up to three-fourths of tuition and fees may be deferred. Account balances are required to be paid before the end of the semester. Students with unpaid account balances will not receive grades, transcripts, diplomas or other academic documents until the account balances are paid. Visit the Business Services Office in BH 132, or call (406) 756-3831 for additional information.

A student who registers or adds classes after the third week of the semester is charged a $40 late registration fee. **For short or late starting classes**, a late fee will be charged to a student who registers for the class after it has ended.

Student ID cards can be obtained from the Business Services Office. Dates and times of student ID photo shoots are posted on campus bulletin boards at the beginning of each semester.

Early Registration

Early registration dates vary by semester. See the academic calendar on page 2 for specific dates and deadlines.

General Registration

All registrations should be completed by the first day of the semester. Schedule changes will be accepted through the second week, but permission from the instructor will be required to register for classes after the first week of the semester. New semester registrations will not be accepted after the first week of the semester for full-semester classes. Refer to the academic calendar on page 2 for specific registration dates and deadlines.

Online Registration

Online Registration is available from early registration through general registration. Student access is limited. Students should stop by the Admissions and Records Office or call (406) 756-3845 for assistance in registering online. See the academic calendar on page 2 for specific dates and deadlines.

Change of Class Schedule

Adding or dropping classes requires advisor consultation. A student who decides to change his/her class schedule should complete the following process:

1. Obtain a schedule change form from the Registration Office;
2. With the help of the assigned advisor, complete the schedule change form and ask the advisor to sign it;
3. Secure signatures from financial aid and all instructors of added or dropped classes after the first week of classes; and
4. Return the completed form to the Registration Office.

Refunds for dropped courses are determined by the refund schedule. Added classes will be charged full tuition and fees.

A student who receives financial aid or veterans' benefits is required to have the Financial Aid Director and/or Veterans' Coordinator sign the schedule change form.

NOTE: Classes may only be added during the **first two weeks** of the semester **with the exception of late starting classes.**

The last day to drop a class is indicated on the academic calendar on page 2. A student who wishes to drop a class without the class appearing on his/her transcript is required to drop the class during the first three weeks of the semester. *(The above information applies to classes that meet the full semester.)* Failure to attend class **DOES NOT** constitute withdrawal.

In order to prevent short or late starting classes from appearing on a student's transcript he/she is required to drop the class during its refund period.

No refunds will be granted for semester classes dropped after the second week of the semester. Refer to the refund schedule on page 13.

Cancelled Classes

If a student is enrolled in a class that is cancelled, all tuition and fees automatically will be refunded to him/her by mail.

Changes in Student Records

The maximum time frame to petition a revision/change to student transcripts or records is within two years of the semester in question. For name changes, the student must provide official documentation, such as court documents, updated social security card or driver's license.

Tuition and Fees

Chuck Jensen, Vice President of Administration and Finance,
Business Services Office
Blake Hall, Room BH 128
(406) 756-3808 - cjensen@fvcc.edu

Payment Overview

- All accounts are due in full at the time of registration.
- The Business Services Office accepts cash, personal checks, money orders, Visa, Mastercard, Discover or American Express. Payments can also be made online at www.fvcc.edu.
- Deferred Payment Plans are available at the Business Services Office for all accounts not paid in full at the start of the semester unless these accounts are already covered in full by financial aid and/or scholarships.
- In case of default or delinquency in the repayment of all or any part of a scheduled installment, a late charge of $25 shall be assessed against each late installment.
- A $20 fee is charged for any personal check returned for non-sufficient funds.
- Grades and/or transcripts will not be released to students who have hold flags like unpaid library fines or outstanding balances owed the college.
- Registration for subsequent semesters is blocked for students with unpaid balances.
- Non-payment of tuition and fees may result in turning the account over for collections to Montana Department of Revenue. Collection costs will be added to the balance.

Release of Information

The Business Services Office will not release a student's account information without written permission of the student. Students may complete an Information Release Form at the Business Services Office which will permit the Business Services Office to discuss payment arrangements with parents, spouses, or others designated by the student.

It is assumed if a student has an authorization for payment from a third party (a contractual agreement) that the Business Services Office can discuss the student's account with the payer.

Running Start

Classes taken as part of the Running Start program are offered at a reduced **tuition**. Fees, payment policies and refund policies apply as stated for all students.

Senior Citizen Discount

The senior citizen discount is available to Flathead and Lincoln County in-district residents 65 years of age and older. For information on tuition and fees, visit www.fvcc.edu.

Semester Tuition and Fee Schedule

Tuition is charged on a per credit basis, depending on the student's residency status. See page 9 of this catalog for residency information. See the tuition and fee schedule online at www.fvcc.edu. Contact the Registration Office at (406) 756-3848 for verification of rates.

Non-Resident, Fully Online Tuition

A non-resident student who lives outside Montana taking all classes via online delivery will be charged a tuition rate that is a minimum of 150% of the in-district tuition rate.

Books and Supplies

For two regular semesters of study, a full-time student taking 14 to 18 credits can expect to pay $1,000 for books and supplies. Visit **www.fvccbookstore.com** for the most up-to-date information regarding cost and availability of textbooks.

A more detailed cost of attending budget is available in the Financial Aid Office and online at www.fvcc.edu.

Deferred Payment Plan

A Deferred Payment Plan is established for all accounts not paid in full at the start of the semester unless these accounts are already covered in full by financial aid and/or scholarships.

For fall and spring semesters, a fourth of the total tuition and fees is required prior to the start of the semester. The remaining balance is payable in three monthly installments.

For summer semester, a third of the total tuition is required prior to the start of the semester.

For interim or short classes, half of the total tuition is required prior to the start of the class and the remainder must be paid before the end of the class.

Applications for the Deferred Payment Plan are available online at www.fvcc.edu or from the Business Services Office.

In case of default or delinquency in the repayment of all or any part of a scheduled installment, a late charge of $25 is assessed for each late installment.

Financial Liability

Unless a student **officially** withdraws from classes before the start of the semester, the student remains responsible for the remaining balance of the account. **The non-attendance of classes does not release the student from the obligations for the debt.**

Students receiving financial aid may be liable for a repayment of funds to the college. They should consult with the Financial Aid Office **before** withdrawing.

Students receiving payment from an employer or job retraining program are responsible for the remaining balance of the account if they withdraw before fulfilling those contractual agreements. Students should check with their sponsor before withdrawing.

1098T Forms/Hope Tax Credit

FVCC will send a 1098T form to all students completing credits during the calendar year. A billing statement for the entire year will be provided upon request.

The *Taxpayer Relief Act of 1997* provides for a federal tax credit of 100 percent of the first $1,000 of tuition and fees paid and 50 percent of the second $1,000 for **qualifying** students or their families. For more information, visit a tax advisor.

Refund of Tuition and Per Credit Fees

Refunds of tuition and fees are made according to the following guidelines:

- Students must officially withdraw from the college at the Admissions and Records Office located in Blake Hall.
- Tuition and fees are refunded according to the refund schedule.
- The amount (percentage) of the refund is calculated based on the TOTAL tuition and fee charges.
- When a student whose tuition and fees are paid under contractual agreement withdraws, he/she is required to make full payment on the balance owed.
- Refunds are calculated from the date of official withdrawal, not from the date the student stopped attending classes.
- The college processes all refunds after the third week of the semester.
- Refunds are mailed to the student's address on file with the Business Services Office.
- All existing debts such as library charges, calculator replacement, and deferred payment plan balance, etc. may be deducted from any refund due to the student.

Questions regarding refunds should be directed to the Business Services Office in BH 132 or call (406) 756-3831.

Refund Schedule

The refund schedule presumes the account is paid in full at the time of registration. It is based on the total amount owed the college, not the amount paid. The refund schedule is date specific.

Refunds are calculated from the day the Schedule Change form is received in the Registration Office. Students who do not officially withdraw owe full tuition and fees and may receive an "F" for the course. **The length of a course determines which refund schedule applies when a student drops a course.**

9 to 16-week courses:	**Refund of Tuition and Fees**
Courses that last at least 63 calendar days	
1st week of semester	100%
2nd week of semester	50%
After 2nd week of semester	No Refund
Classes beginning before or after the 1st week of the semester:	
1st week of class	100%
2nd week of class	50%
After second week of class	No Refund
Short courses up to 8 weeks:	
Courses that last less than 63 calendar days	
1st business day following 1st class	100%
After 1st business day following 1st class	No Refund

Note: Students may withdraw from courses until the 75% point of the course.

In order to prevent a full semester course from appearing on a student's transcript, the course must be dropped by the end of the third week of the semester. For interim and late starting courses, the course must be dropped by the end of its refund period.

Financial Aid students should refer to the withdrawal policy in the Financial Aid section of the catalog.

Appeals

Inadequate knowledge regarding the refund policy is not considered sufficient cause for student appeal.

Students wishing to appeal the refund policy may do so **before the end of the term** by submitting a written appeal explaining their particular circumstances to the college's Vice President of Administration and Finance.

Students with Third Party Sponsors should meet with their sponsor prior to making changes to their schedules. Sponsorship payment of tuition and fees may be withheld making the student responsible for payment to the college.

Semester Fees

Activity Fee
A per credit activity fee is administered by Student Government to support programs, services and activities for FVCC students. **See current Tuition and Fee schedule at www.fvcc.edu for most current information.**

Building Fee
A per credit building fee is assessed to maintain and improve existing facilities, to construct facilities and to purchase new land or buildings. **See current Tuition and Fee schedule at www.fvcc.edu for most current information.**

Technology Fee
A per credit technology fee is assessed to off-set the cost of purchasing or leasing computer equipment, software, maintenance or related items which benefit instructional programs. **See current Tuition and Fee schedule at www.fvcc.edu for most current information**.

Equipment Fee
A per credit equipment fee is assessed to assist FVCC in maintaining and updating instructional equipment. **See current Tuition and Fee schedule at www.fvcc.edu for most current information.**

Grounds and Maintenance Fee
A per credit grounds and maintenance fee is assessed for the purpose of maintaining and improving the campus grounds and existing parking and to construct new parking areas. **See current Tuition and Fee schedule at www.fvcc.edu for most current information.**

Student Health Fee
A flat fee is assessed to maintain and operate the Student Health Clinic for students enrolled in seven or more credits. Fully online, Lincoln County Campus, and students registered for 4 - 6 credits may opt in at Business Services.

Course Fee
Where classes provide consumable materials used by students, course fees may be charged. These vary from class to class and are listed in the semester course schedule. All students, including those attending under tuition and fee waivers, must pay course fees.

Late Registration Fee
A $40 late registration fee is charged to each student registering or adding classes after the third week of the semester. For short and late starting classes, the fee will be charged if registering after the class has ended.

Special Fees

Calculator Late Fee
An overdue fee of $10 per day will be assessed if not returned by the due date. A hold will be placed on the borrower's college account and grades and transcripts from FVCC will not be accessible until the balance has been paid.

Calculator Replacement Fee
A fee of $100 is added to the student's account if the math calculator is lost or damaged.

Late Payment Fee
In case of default or delinquency in the repayment of all or any part of a scheduled installment, a late charge of $25 shall be assessed against each late installment.

Distance Learning Fee
Fully online courses using the Desire2Learn℠ platform are charged an additional $65 for a one credit class or $30 per credit for classes that are two credits or more.

Hybrid (partially online) courses using the Desire2Learn platform are charged an additional $45 flat fee (regardless of the number of credits).

Students receiving a course delivered via interactive television (ITV) are charged an additional fee of $30 per credit.

Distance Learning fees are refundable per the college's refund policy.

NSF Check
A penalty fee of $20 is charged for each non-sufficient fund check written to the college.

Transcript Fee
Transcripts are free, but please allow 5-10 business days to process each request. Rush and fax requests are $15 per transcript and will be processed within 1-2 business days. Current students may print an unofficial transcript through the student portal at www.fvcc.edu.

Financial Obligations

Students who owe FVCC money cannot register for the succeeding semester, secure transcripts, records, grades, diplomas or degrees until the obligations are paid or satisfactorily adjusted through the Business Services Office.

Financial Aid

Cindy Kiefer, Director, Financial Aid
Blake Hall, Room BH 113
(406) 756-3843 - ckiefer@fvcc.edu

Federal and State Aid

Flathead Valley Community College administers a variety of government financial assistance programs for degree-seeking students who can provide evidence of financial need. Students are required to complete the FAFSA (Free Application for Federal Student Aid) to determine eligibility.

- **Federal Pell Grant**
  The value of this grant varies from year to year depending on the appropriations from Congress. The projected maximum annual award is $5,550 for two semesters of full-time attendance. Full and part-time students are eligible. A student's particular dollar amount depends on the student's expected family contribution (EFC) from the FAFSA and enrollment status term by term during the year.

- **Federal Supplemental Educational Opportunity Grant (FSEOG)**
  This grant is awarded to students with the lowest EFCs who are also eligible for the Pell Grant. Full and part-time students are eligible. Annual awards range from $200 to $500.

- **Iraq and Afghanistan Service Grant (IASG)**
  For students who are not Pell-eligible; who's parent or guardian died as a result of military service in Iraq or Afghanistan after September 11, 2001; and who, at the time of the parent's or guardian's death, were less than 24 years old or were enrolled at least part-time at an institution of higher education. Maximum is same as Pell maximum; payment adjusted for less-than-full-time study.

- **Montana Higher Education Grant (MHEG)**
  This grant is awarded to full-and/or part-time students with Montana residency and high financial need. Annual awards range from $200 to $500.

- **Montana Baker Grant**
  This grant is awarded to full-time students with Montana residency. Annual awards range from $100 to $1,000.

- **Work Study**
  Through part-time employment on campus, students who show financial need may earn a portion of their educational expenses. Ten to fifteen hours per week is the recommended work load. Students are paid a competitive wage and may gain experience in their career field. Paychecks are mailed on the 15th of the month following the month the hours were worked.

- **Direct Stafford Loans**
  Eligible students registered in six or more credits may borrow up to $5,500/$6,500 per year. Additional eligibility may exist for an independent student. New interest rates go into effect on July 1st of each year and the rate is set by Congress annually. Please check out our website at http://www.fvcc.edu/admissions/financial-aid/types-of-financial-aid/loans.html for the current rates or contact the financial aid office. Repayment of principal and interest begins six months after the student is no longer enrolled or drops below half-time attendance (six credits).

- **Direct Plus Loans**
  Eligible parents may borrow for their dependent undergraduate student(s) enrolled at least half-time. New interest rates go into effect on July 1st of each year and the rate is set by Congress annually. Please check out our website at http://www.fvcc.edu/admissions/financial-aid/types-of-financial-aid/loans.html for the current rates or contact the Financial Aid Office.

In addition to the above programs, FVCC also works with Third Party Sponsors who provide payment. These include Job Service, Community Action Partnership of Northwest Montana, Vocational Rehabilitation, Worker's Comp, Head Start, various employers, and others. All sponsorship authorizations must be sent to the Financial Aid Office. Authorization letters must be received prior to General Registration.

Eligibility

- A student must be a U.S. citizen or eligible non-citizen.
- A male student must be registered with Selective Service.
- A student must have a high school diploma or GED.
- A student may receive federal or state financial assistance only if he/she does not owe a repayment on federal financial aid previously awarded and is not in default on any federal loan previously received.
- A student must be enrolled in a program leading toward a degree or certificate offered by FVCC.
- A student must maintain satisfactory academic progress.

  A) A student must have a minimum 2.0 cumulative grade point average in previous coursework at FVCC and have successfully completed 67% of his/her attempted hours at FVCC.

  B) At the time federal and/or state aid is awarded, a student receives a copy of the satisfactory academic progress requirements. The document explains how to continue to be eligible for financial aid at FVCC and how to regain eligibility once it has been suspended.

C) Degree requirements must be completed within a specific time frame. The maximum time frame for a program of study at FVCC is 150% of the program requirements (i.e. an AS degree requires 60 credits for graduation so maximum time frame would be 90 attempted credits). Hours earned at FVCC, as well as hours transferred and accepted by FVCC, are considered in this maximum time frame.

How to Apply

- Complete the FVCC admission process for a degree or certificate program; and
- Complete the *Free Application for Federal Student Aid* (FAFSA) at **www.fafsa.gov**. This application can take three to four weeks to process, so early application is encouraged.

Students who submit their FAFSA by March 1 and provide all requested additional information by March 15 (for the following academic year beginning in August) will be given first priority for Work Study funds, MHEG, MT Baker, and FSEOG as funding permits.

When To Apply

Students must apply for financial aid each academic year. Applications are available after January 1 for the following fall and should be submitted as soon as income tax return information from the previous year has been compiled by the students and/or their parents. Applications are processed in the order received, according to students' needs and available funds. Students are notified of their awards beginning in May.

Changes in Enrollment Status

Financial aid will be awarded based on the student's FAFSA application. Enrollment verification will be completed after the 15th class day and financial aid awards will be adjusted based on the student's current registration at that point in time. Any changes to enrollment after that date will not affect the value of a student's award package, unless a student drops or adds a course that has not started, or withdraws from all courses for that term.

Students who are withdrawing from classes after the 15th class day should review the eligibility section of the Satisfactory Academic Progress Requirements to ensure they are maintaining the required academic standards.

Financial Aid Refunds

If students are receiving more financial aid than their direct institutional costs, they will receive a refund check from the college. These checks will be issued about a month into the semester.

In some circumstances, students who are registered in late starting classes may have their refund check reduced or held until they are in attendance in the late starting courses and have passed the refund period for those courses.

Withdrawal/Return of Title IV Funds

Financial aid recipients of Pell Grant, FSEOG, IASG, Stafford or Plus Loan funds are advised to first meet with the Director of Financial Aid before completely withdrawing from all classes for the semester. The Director will explain the consequences of a withdrawal, as well as the financial implications of this action.

If a student officially or unofficially withdraws (stops attending classes) before the 60% point of the semester, federal regulations require that the school complete the Return of Title IV Funds calculation.

The student's withdrawal date, in calendar days, is used to determine the percentage of the semester that the student completed. This percentage is used to determine the "earned" aid that a student is eligible to retain. The student will be responsible for any "unearned" aid that MUST be returned. Examples of this calculation can be provided by the Financial Aid Office.

The student's withdrawal date is either the date they began the withdrawal process or last day they attended classes. For a student who didn't officially withdraw, the withdrawal date is the last date of attendance as reported by the instructor or the 50% point in the semester.

Scholarships

Flathead Valley Community College offers numerous need-based and merit-based institutional and privately funded scholarships. To qualify for need-based scholarships, students must have applied for financial aid by completing the FAFSA (Free Application for Federal Student Aid) application at www.fafsa.gov and demonstrate financial need. Merit-based scholarships are based on grade point average, academic standing, program of study, or activities.

Applications and the detailed scholarship brochure listing all the available scholarships are available at the FVCC Financial Aid Office and the LCC Student Services Office. This information can also be found online at http://www.fvcc.edu/admissions/financial-aid/types-of-financial-aid/scholarships.html. Scholarship deadlines exist throughout the calendar year; however, for priority consideration apply by March 15th for the following academic year. The award process and regulations are subject to change. In addition, outside scholarship opportunities are published in The Privy Press as they become available.

Veterans' Benefits

Nancy Hanchett, Coordinator, Work Study & Veterans' Affairs
Blake Hall, Room BH 111
(406) 756-3850 - nhanchet@fvcc.edu

The Veterans' Affairs Office assists veterans in enrolling at FVCC, applying for their educational benefits, contacting the Veterans Administration when benefits payments are delayed, securing tutorial assistance and arranging transfer to other institutions so that payment of educational benefits will not be unnecessarily interrupted.

Applications for veterans' educational benefits should be initiated through the Veterans' Affairs Office in Blake Hall or by calling (406) 756-3892 or (406) 756-3850. Veterans should be prepared to provide a certified copy of their *DD-214* and/or *DD Form 2384* (notice of basic eligibility) along with some personal history. To receive advance payment, students are required to have a complete admissions file and to contact the veterans' coordinator at FVCC at least 90 days in advance of the semester for which they plan to register.

All degree and certificate programs offered at FVCC are approved for benefits under the current GI Bills.

Widows and children of veterans who died of service-connected disabilities or who have total and permanent service-connected disabilities may be eligible for Chapter 35 educational benefits.

The Montgomery GI Bill - Active Duty Educational Assistance Program, Chapter 30 – may provide benefits for individuals who first entered on active duty after July 1, 1985.

The Montgomery GI Bill, Chapter 1606 – Selected Reserve Educational Assistance Program (including National Guard) provides benefits for individuals who enlist, extend or reenlist for at least six years after July 1, 1985. Those individuals are required to have completed an initial active duty for training.

The Ronald Reagan National Defense Authorization Act established Chapter 1607 – Department of Defense Educational Program to provide educational assistance to members of the reserve components called or ordered to active duty in response to a war or national emergency (contingency operations) as declared by the President or Congress.

The post-9/11 Veterans Educational Assistance Act of 2008 or "New GI Bill" has been enacted into law.

Although most veterans have 10 years from their date of discharge to use their VA educational benefits, the "New GI Bill" allows 15 years.

Congress passed, and the President has signed into law, the VOW to Hire Heroes Act of 2011. Included in this new law is the Veterans Retraining Assistance Program (VRAP) for unemployed Veterans. More information (including a benefit fact sheet, questions and answers, a list of high demand jobs, and access to the required electronic application) can be found online at http://benefits.va.gov/vow/education.htm. The VRAP program is scheduled to expire on March 31, 2014.

Rates of benefits vary. For the most recent information or more information on all VA educational programs, visit the VA web site at **www.gibill.va.gov** or call toll free 1-888-442-4551.

All veterans and eligible individuals receiving subsistence allowances under the GI Bill are required to report PROMPTLY to the Veterans Affairs any changes which may affect the amount of money being received. Students are required to report when they drop courses, withdraw from school, change marital status or stop attending classes for any reason. Students are not only expected to achieve satisfactory progress but to regularly pursue goals and attend classes.

The repeat of a course for a grade of A, B, C, D, S or I will not count toward the required minimum credit hours. However, if the first grade earned was a F, the course may be repeated for veteran's credit. Veterans' educational benefits will not pay for audited classes, course challenges or unsatisfactory grades.

Students receiving Veterans' benefits will be placed on academic probation any time his/her cumulative grade point average (GPA) falls below 2.0.

A student on probation will be required to meet with a retention advisor before starting the next semester to discuss academic goals and barriers and ways to achieve the goals. A review of the academic assistance available at FVCC and the development of a plan to assist the individual in achieving his/her academic goals will also take place.

If a student fails to improve his/her GPA each term while on academic probation, he/she will have two options – to choose academic suspension for a period of no less than one year or to agree to a plan of extensive remediation developed by the college. If remediation is unsuccessful or if the student fails to comply with the prescribed plan, he/she will be suspended immediately for no less than one year. A student reinstated after being on academic suspension will be required to meet with a retention advisor prior to registering each semester.

Once a student's cumulative GPA improves to a 2.0 or better, he/she will be removed from academic probation or suspension status and will no longer be required to meet with a retention advisor.

FVCC will be participating in the Yellow Ribbon program for Veterans using the Post-9/11 GI Bill during the 2013/2014 academic year. Visit www.gibill.va.gov for more information about the Yellow Ribbon Program.

VA laws are subject to change without notice. Students should visit the GI Bill web site for the most updated information: **www.gibill.va.gov.**

Learning Center

Learning Resource Center, Room LRC 129
(406) 756-3890

The mission of the Learning Center is to promote student success, increase retention, graduation, transfer and placement rates and foster an institutional climate conducive to student success.

The FVCC Learning Center provides a number of related and shared services and activities, mostly federally funded, designed to promote student access and success in postsecondary education. Specific services and activities include:

- Adult Basic Education and GED testing;
- Testing (COMPASS placement testing, ACT, SAT, career, personality, and learning disabilities);
- Advising for Associate of Arts, Associate of Science, Associate of Applied Science, Certificate of Applied Science, transfer degrees and certificate and transfer students in coordination with faculty advisors;
- Counseling (group and individual personal, academic, and career);
- Disability services;
- Career exploration;
- Placement services;
- Tutoring (individual and group);
- Learning labs (math, language arts); and
- Developmental courses.

Besides general-funded activities and services, the Learning Center hosts a Student Support Services TRIO grant and a Carl Perkins grant.

Adult Basic Education - GED

Flathead County
Margaret Girkins, Director, Adult Basic Education
Learning Resource Center, Room LRC 129
(406) 756-3884 - mgirkins@fvcc.edu

Lincoln County
FVCC Lincoln County Campus - 225 Commerce Way
(406) 293-2721

The Adult Basic Education Center offers <u>FREE</u> day and evening classes in Flathead and Lincoln Counties. The center assists individuals age 16 and older who wish to:

- Improve reading, writing, math, language, computer and study skills;
- Prepare for the General Education Development (GED) test (HiSET test as of 1/1/2014);
- Refresh skills before entering college;
- Vocational training;
- Build skills to enhance transition to college-level work; and
- Build English as a Second Language (ESL) communication skills if their native language is not English.

As of July 1, 2012, a GED, high school equivalency diploma, or high school diploma will be required to be eligible for a Pell Grant.

GED/high school equivalency testing is conducted in both Flathead and Lincoln counties. Call (406) 756-3884 in Flathead County or (406) 293-2721 ext. 235 in Lincoln County for testing schedules and registration.

General Basic Education - Individualized program of instruction in reading, writing, math, spelling, study and job readiness skills.

Writing Skills - Individualized and small group instruction and practice in basic English grammar, capitalization, punctuation, usage, spelling and effective writing.

Reading Improvement - Individualized and small group instruction to improve vocabulary and comprehension skills.

Basic Mathematics - Individualized and small group instruction in basic math and problem solving skills with whole numbers, fractions, decimals, percents, measurement, algebra and geometry.

English as a Second Language (ESL) - Individualized and small group instruction in basic reading, phonics and written communication skills for adults whose native language is not English.

Testing

For appointments, call (406) 756-3880.
Learning Resource Center, Room LRC 129

All degree-seeking students, as well as anyone taking writing and math classes, are required to take the COMPASS placement tests as part of the admissions process.

Additional tests administered through the Learning Center include:

- ACT and SAT for college admissions;
- Testing accommodations for students with learning disabilities;
- Proctored testing for correspondence courses;
- TABE and GED tests for adult basic education; and
- Alternative testing site for classroom support.

Advising and Counseling

For appointments, call (406) 756-3880
Learning Resource Center, Room LRC 129

Karrie Bolivar - kbolivar@fvcc.edu
Carlin Hale - chale@fvcc.edu
Lynn Farris - lfarris@fvcc.edu
Charlene Herron - cherron@fvcc.edu
Russ Lamson - rlamson@fvcc.edu
Dan Voermans - dvoerman@fvcc.edu

Learning Center staff provides advising for Associate of Arts, Associate of Science, Associate of Applied Science, certificate and transfer students in coordination with faculty advisors. Additionally, counseling staff will assist any student seeking counseling services including personal, career, or academic, or provide appropriate referral if necessary.

Disability Support Services

Anna San Diego, Specialist, Disabilities Services and Assessment
asandiego@fvcc.edu
For appointments, call (406) 756-3880 or (406) 756-3890.
Learning Resource Center, Room LRC 129

The Disability Support Services Office coordinates reasonable academic accommodations for students with disabilities. Accommodations may include but are not limited to ASL interpreting, note takers, audio books, alternative testing, and assistive technology. To access services and accommodations, students should contact the Specialist, Disabilities Services and Assessment upon their decision to attend FVCC or immediately following the diagnosis of a disability. Each qualified person shall receive the accommodations needed to ensure equal access to educational opportunities, programs, and activities. FVCC strives to create an accessible and inclusive campus environment for students with disabilities.

Americans with Disabilities Act

Flathead Valley Community College, as required by the Americans with Disabilities Act (ADA), has an established grievance procedure for handling a claim or allegation of discrimination based on a disability. The purpose of this procedure is to promote the prompt and efficient resolution of complaints by any person of alleged discrimination concerning program, activity, service or physical accessibility at FVCC.

Copies of this procedure may be obtained from the Disability Support Services Office.

Tutoring

Russ Lamson - rlamson@fvcc.edu
For appointments, call (406) 756-3880 or (406) 756-3890.
Learning Resource Center, Room LRC 129

Tutors are available for most classes at FVCC and LCC. The service is free to eligible TRIO students.

Learning Labs

Learning Resource Center
Lori Nicholas, Instructional/Tutorial Specialist, Math Lab
Room LRC 148 - (406) 756-3892 - lnicholas@fvcc.edu
Jim Soular, Instructional/Tutorial Specialist, Writing Lab
Room LRC 147 - (406) 756-3891 - jsoular@fvcc.edu
Carole Pinnell, Reading Lab Instructor
Room LRC 147 - (406) 756-3376 - cpinnell@fvcc.edu

Professional instruction in math, reading, and writing is available in the math and language arts labs located in the Learning Resource Center. The labs are open to all students and provide support for all academic areas.

Developmental Courses

For appointments, call (406) 756-3880 or (406) 756-3890.
Learning Resource Center, Room LRC 129

Students who are not ready for college-level course work are advised to take developmental courses to improve their academic skills and chances for success in postsecondary education. Students who are undecided about majors and/or who have not been exposed to formal education for a time may also benefit from these courses. COMPASS test scores indicate the appropriate levels for students to begin.

Courses numbered under 100 may not be applied to an Associate of Arts or Associate of Science degree but may be counted for credit for Pell Grant purposes.

Career Exploration

Charlene Herron, Career Counselor
Learning Resource Center, Room LRC 129
(406) 756-3890 - cherron@fvcc.edu

Career planning services are available to students and the community.

Services include:

- Assisting students in the selection of college majors or providing career directions;
- Career Inventories and Interpretations Interest (SCII), Skills (MCIS), Personality (MBTI);
- Montana Career Information System (MCIS);
- Individual career counseling, decision making and goal setting;
- Assistance with college admissions, selection of majors and financial aid resources;
- Assistance with computerized career systems; and
- Library of career, college and employment information.

Employment self-marketing services include:

- Job search skills, resume writing and networking; and
- Access to state labor market information.

Career Development

Karen Darrow, Coordinator, Career Development
Learning Resource Center, Room LRC 144
(406) 756-3900 - kdarrow@fvcc.edu

The Career Development Office is a resource for students interested in finding either full or part-time employment. Job placement services available to FVCC students and alumni include:

- Job Board listing current job openings;
- Employer information;
- Job search skills:
  (workshops and individual appointments)
  - Resumes;
  - Interviewing; and
  - Effective job search techniques;
- *Graduate Placement Survey* information; and
- Career Coach

TRIO Student Support Services

A Department of Education TRIO Program
Lynn Farris, Director, TRIO
Learning Resource Center, Room LRC 129
(406) 756-3880 - lfarris@fvcc.edu

The TRIO/SSS assists program-eligible students to succeed in college. Services include:

- Career and personal counseling;
- Tutoring;
- Academic, transfer and financial aid advising;
- Math and language arts labs; and
- Courses in developmental math, reading, writing, career awareness and study skills.

Educational Opportunity Center

A Department of Education TRIO Program
Linda Ornowski, EOC Outreach Counselor
Room LRC 141 - (406) 756-3916 - lornowsk@fvcc.edu

The Educational Opportunity Center caters to individuals who are no longer in school but want to pursue high school, GED or college diplomas. The EOC encourages individuals to return to high school or enter college by providing:

- Career guidance;
- Academic advising;
- Financial aid assistance;
- College application; and
- Linkages to other agencies providing assistance.

The EOC is part of a Montana State University - Northern program that serves potential students all across northern Montana. The EOC is a federally-funded TRIO program.

Student Activities and Development

Sharon Randolph, Coordinator,
Student Activities and Development
Blake Hall, Room BH 155
(406) 756-3981 - srandolp@fvcc.edu

The Student Activities and Development Coordinator serves as a resource for all student organizations on campus and for Student Government. A monthly activity planning meeting takes place for organization members and their advisors to share ideas for campus activities and to discuss ways to co-facilitate events. A variety of campus events, including fall and spring semester Welcome Weeks, are scheduled through this office.

The Student Activities and Development Coordinator also coordinates the Healthy Lifestyle Awareness Center, which promotes happiness, HIV/STD awareness, women's and men's resources, as well as healthy emotional and spiritual lifestyles and relationships. The center provides education and promotes good decision making.

Native American Services

Mick Stemborski, Coordinator, Multicultural Services
AT 226, (406) 756-3945 - mstembor@fvcc.edu

In recognition of the unique and culturally based needs of Native American students, the office serves as a liaison between administration, students and community, providing information and referral services for Native American students. Over the years, the office has expanded to include **Multicultural Services**, recognizing all ethnically diverse students on campus with sensitivity to their individual academic experience. Multicultural activities and presentations are planned throughout each year, raising local, global and cultural awareness on campus. All students are encouraged to participate.

The **Native American Tuition Waiver** is offered each semester in limited numbers to those students who qualify. Visit or call Native American Services for details.

Food Service

The Eagle's Nest Cafe, located in Blake Hall, serves breakfast, lunch and snacks on weekdays when classes are in session. A cooler with grab and go items is located by the coffee cart for evening classes. Dining cards of $10 and $20 values are available in the Business Services Office. Menus and prices are established with student budgets in mind.

Bookstore

Denise Shuman, Bookstore Manager
Blake Hall, Room BH 164
(406) 756-3814 - dshuman@fvcc.edu

The FVCC Bookstore supplies all textbooks, school supplies and art supplies required for classes. The bookstore also stocks study aids, computer supplies, postage stamps, snack items, college T-shirts and sweatshirts, greeting cards and gift items. Visa, Mastercard and American Express are accepted.

Check policy: Student ID number is required. Checks may be written for $5 over the amount of purchase.

Textbooks

Textbook Refund Return Policy (beginning of term)
Students: Do not write in new textbooks until you are certain they are for the course in which you are enrolled.

1. **Books must be returned during the first two weeks of class for a full refund.**
2. All refunds or exchanges require the cash register receipt - ***No exceptions.***
3. Be sure you return the book immediately if:
   a. You have the wrong book.
   b. You dropped a class or class was cancelled.
   c. You decide you don't need the book.
4. Price stickers must be left on textbooks.
5. After the first two weeks of the term, textbook returns must be made within three days of purchase for a full refund.
6. Textbooks purchased for short, interim or late starting block classes have a three day return policy, three days from the beginning of the class.
7. New books must be in mint condition.
   a. No marks or blemishes.
   b. Clean pages.
   c. No folded corners - ***No exceptions***.
8. Caution: ***Do not write in a new book*** until you are sure it is the correct text book.
9. Any defective new or used book must be exchanged at least four weeks before finals.
10. New textbooks which are shrink wrapped may not be returned if unwrapped.

No exceptions will be allowed.

Textbook Buy-back Policy (at the end of the semester)
If textbook is purchased from the FVCC Bookstore -

1. Student ID required.
2. **Cash register receipt required for book buy back.**
3. The bookstore cannot guarantee the buy back of any books at any time.
4. We pay 50% of the current new price for books to be used in the coming term. Overstocked books do not qualify for the 50%.
5. If student owes the college money, then buy back funds are posted to student's account.
6. Textbooks not purchased at the FVCC Bookstore are not eligible for book buy back.
7. The best national wholesale prices available will be offered for books which are not in use on our campus or are overstocked.

8. Study guides, books with questions and answer spaces filled in and reproduced materials are not bought back.
9. Book buy back periods are limited to the week of finals.
10. Books classified as old editions and out-of-print may have no monetary value to the bookstore or the used book dealer; you may want to keep them for reference or donate.

Textbook Reservations

Students have the option of filling out a textbook reservation form to reserve and pay for textbooks each semester. Forms are available in the bookstore. Students complete schedule information with course numbers and instructors' names. Students may choose to pick up books or have them mailed to their home addresses. Payment may be made by cash, check or credit card. Students receiving federal/state grants, student loans or other scholarships may request that the bookstore take the cost of books out of their financial aid.

Campus Grounds

Campus Grounds is operated by the FVCC Bookstore and located in Blake Hall and the Arts and Technology building. Campus Grounds serves up espressos, lattes, mochas and steamers, sells fun merchandise and provides an inviting, relaxing and comfortable space for students to lounge, study, watch television or read the daily newspaper. Coffee cards and gift certificates are available for purchase in the bookstore.

Student Health Clinic

The Student Health Clinic, funded by the Student Health Fee and located in the Broussard Center, is available to degree-seeking students enrolled in seven or more credits for urgent care and general health needs.

Health Insurance

Student health insurance is not offered through the college. Students are responsible for making their own arrangements for health insurance. For information on obtaining insurance, contact the Admissions and Records Office by calling (406) 756-3846.

Library

Flathead Valley Community College's library is located in LRC. Its growing collection includes 62,133 volumes and 130 periodical subscriptions. The well-equipped library features seating for over 110 in a variety of settings including individual study areas, lounge seating and traditional study tables. A full-time staff of three and student assistants are available to assist students with their information needs. A wireless Internet lobby and study zone extends the library's space in the LRC.

Some of the library services offered include:

- SIRSI/DYNIX automated web catalog and circulation system;
- Internet work stations;
- Self-service photocopier;
- Interlibrary loans;
- OCLC/WORLDCAT, featuring the holdings of libraries worldwide, totaling 61,000,000 records;
- Personal computers for student use linked to the college's LAN and network printer;
- Quiet study rooms with overhead projectors for group study;
- Non-circulating collection of college textbooks;
- Faculty reserves;
- Circulating video and CD collection;
- Periodical and reference online databases including EBSCO, SCIENCE SOURCE, NEWSBANK and SIRS; ENCYCLOPEDIA AMERICANA ONLINE; CLC (Contemporary, Literary, Criticism) and PROQUEST SCIENCE JOURNALS;
- Montana periodicals index;
- Extensive USGS topographic map collection;
- Bibliographic instruction and tours in the use of the library for classes or groups;
- Montana and Northwest city phone books;
- Telefacsimile (Fax) service;
- Wireless Internet Node;
- Member of Montana Shared Catalog (MSC), a consortium of 166 member libraries;
- Test proctoring services;
- 3,000 Online E-Books;
- Circulationg laptops;
- Extensive hard-copy current newspaper and periodical subscriptions;
- Campus test proctoring site; and
- Self-service flatbed scanner.

During fall and spring semesters, the library is open Monday through Thursday from 8 a.m. - 8 p.m. and Friday from 8 a.m. - 5 p.m. Summer hours are 8 a.m. - 5 p.m. daily during the summer session.

Instructional Media Services

The Media Center, located in LRC 117, provides faculty, students, and staff with non-print instructional materials, audio-visual equipment, and related services used in the classroom or for instruction. For students, these services often include assistance in making PowerPoint presentations, renting of graphing calculators, and the digitizing of print, photo, or video materials to be used in multimedia applications. For faculty and staff, these services also include scheduling or meetings via interactive television, maintenance or a video library and equipment collection that supports the curriculum and other collge endeavors, and support utilizing equipment in classrooms and meeting rooms. For a complete list of services, please visit the Media Center website at http://www.fvcc.edu/current-students/student-resources/media-center.html.

The Media Center is open during fall and spring semesters, Monday through Thursday, from 8 a.m. - 7 p.m. and Friday from 8 a.m. - 4:30 p.m. Summer hours and interim hours vary.

Campus Childcare

Laurie Peiffer, Director, ECC
(406) 756-3991, lpeiffer@fvcc.edu

The FVCC Early Childhood Center accepts children ages six-weeks old to six-years old. The program is based on developmentally appropriate practices that meet the needs of each individual child. The center offers full-day and half-day programs in each of the infant, toddler and pre-school areas.

Mission and Philosophy

The FVCC Early Childhood Center will provide an environment in which children can have limitless opportunities to maximize their developmental and learning potential.

Enrollment

Enrollment is based on the Center's needs and the following priority order:

- Current family members
- FVCC students (Must be enrolled in a minimum of nine credits)
- Full-time regular FVCC employees
- Community members/general public

Financial assistance is available to FVCC students enrolled in a minimum of nine credits through the FVCC Financial Aid Office. For more information, or to obtain an application for child care assistance, contact the FVCC Financial Aid Office by calling (406) 756-3849.

To schedule a tour of the facility, please contact Laurie Peiffer by calling (406) 756-3991 or by emailing lpeiffer@fvcc.edu.

Student Activities

American Sign Language Club

The American Sign Language Club establishes an environment where students are given the opportunity to learn, exercise, and improve their sign language skills. The club acts as a support system coinciding with the language and cultural learning process required to become a successful bi-lingual individual. For more information, contact advisor Collette Taylor at cataylor@fvcc.edu.

Art Club

The Art Club is committed to furthering education and inspiration to developing artists and the community. This organization meets once a month in the Arts and Technology Building. For more information, contact John Rawlings at (406) 756-3896.

Business Professionals of America

Business Professionals of America (BPA) is a nationally recognized organization for students interested in developing their business and professional skills. Students may gain experience in business relations and represent the college at divisional, state and national competitions. Students are encouraged to use the skills they have learned through course work and interact with the business world to enhance their future careers. For more information, contact Brenda Rudolph at (406) 756-3858, or email brudolph@fvcc.edu.

Christian Student Ministries

Christian Student Ministries is committed to helping students discover the truths of the Bible through study and discussion groups. Christian Student Ministries is dedicated to sharing the adventure of the Christian life. The organization aims to assist in meeting the spiritual, emotional and physical needs of students on campus by becoming personally involved. For more information, contact (406) 756-3981.

College Democrats

As an affiliation of the College Democrats of America, FVCC College Democrats are dedicated to inspiring and assisting the organization of college students to participate in the American political process and the Democratic party. Members strive to better the country and promote principles of equality, opportunity, social justice and freedom within a just and strong society. The organization promotes voter registration, participates in local and national campaigns, sponsors community events and holds fundraisers for local charities. For more information, contact Russ Lamson at (406) 756-3885 or email rlamson@fvcc.edu.

College Republicans

The FVCC College Republicans are affiliated with the Montana College Republican Federation and the College Republicans National Committee. The club also works with the Flathead County Central Committee, the Flathead County Republican Women's Club and the Flathead County Republican Assembly on local elections and political events. The club promotes the Republican Party, aids in the election of candidates and assists in the active functioning of Republicans at all levels. Participants will develop political skills and leadership activities to provide service to the party and the community. For further information, contact Sharon Randolph at (406) 756-3981 or email srandolph@fvcc.edu.

Habitat for Humanity

The campus chapter for Habitat for Humanity works directly with the local non-profit affiliate to build houses using volunteer labor and donated materials. The houses are sold at no interest and no profit to low-income families who are unable to secure bank loans. Students can give back to their community and have the opportunity to receive service learning credit for participating. For further information, contact the Service Learning/Campus Corps Office at (406) 756-3908.

Human Service Club

The Human Service Club identifies and meets the needs of students and their families. For students entering the human service field, the club is a valuable opportunity to learn more by reaching out and becoming involved in the community. For new students in the human service program, the club is a valuable resource. Students will be given the opportunity to receive service learning credit for participating in the program. For more information, contact Rick Halverson at (406) 756-3871 or email rhalvers@fvcc.edu.

Intramurals

Participating in the Intramurals program is a great way to stay in shape, have fun and get connected with friends at FVCC. Intramurals activities are open to all FVCC students, faculty and staff; these programs are co-ed. There are numerous activities offered such as basketball, volleyball, soccer, softball, golf scrambles, flag football, ski trips, hockey and ping pong. Summer intramurals are also a great way to explore the outdoors with fellow FVCC students. Some activities offered in the summer are raft trips, kayaking, biking, group hikes, and zip line tours. To find out more about Intramurals, stop by Blake Hall 155, call the Intramurals office at (406) 756-3893, or email Sarah Bergford, Intramurals Coordinator, at sbergford@fvcc.edu.

Logger Sports

Membership on the FVCC Logger Sports team is open to all FVCC students. The team competes with universities and community colleges in the northwestern United States and western Canada and has been rated the top team in many competitions. For more information, email abeall@fvcc.edu.

Northern Knights Chess Club

The FVCC Northern Knights Chess Club is a student club. The purpose of the club is to offer students the opportunity to play chess and learn more about the game. For more information, call (406) 756-3891.

Phi Theta Kappa

Phi Theta Kappa is a national scholastic honor society for two-year colleges. Alpha Iota Pi Chapter was organized on the Kalispell campus in 1983 as Montana's first two-year college honor society. Beta Theta Theta Chapter at the Libby campus was organized in 1999. A student who achieves outstanding academic record, has completed 12 semester credits and has a minimum 3.4 GPA is eligible for membership. For more information, contact Janaya Okerlund at (406) 756-3908 or email jokerlun@fvcc.edu, or Chris Hanchett at (406) 756-3857 or email chanchet@fvcc.edu, or the Lincoln County Campus at (406) 293-2721.

Renewable Resource Education Club

The Renewable Resource Education Club welcomes all students interested in recycling and environmental awareness. Through education, RREC promotes waste reduction on the FVCC campus as well as in the greater Flathead community. All proceeds from recycling on campus go toward an established scholarship available to FVCC students. For more information, contact advisor Anita Ho at (406) 756-3873 or email aho@fvcc.edu.

Service Learning Club

The Service Learning Club participates in various community activities such as Seussville University, Make a Difference Day and Youth Service Day. The club is dedicated to education, new ideas and promoting interest in community service among the students. For more information, contact Janaya Okerlund at (406) 756-3908 or email jokerlun@fvcc.edu.

Single Parents' Group

The Single Parents' Group provides a support group for parents who are working and going to school while raising children. The group welcomes new students and offers a variety of activities involving parents and children. For more information, contact the Student Development Office at (406) 756-3981.

Student Ambassador Program

The Student Ambassador program provides leadership opportunities for students. As ambassadors, students assist the FVCC Foundation with fundraising efforts through participation in events and activities. Ambassadors receive leadership training, sharpen their speaking and conversation skills, and develop self-confidence. Ambassadors are allowed to earn service learning credit for their service hours. Applying for the Student Ambassador program is a competitive process in September of each year and involves an application and interview. For more information, contact Colleen Unterreiner at (406) 756-3914 or email colleenu@fvcc.edu.

Student Government

All students enrolled at Flathead Valley Community College are represented by the Student Government. The Student Government sophomore senators and officers election is held in April while the freshman senators election is conducted in September. The Student Government works towards involving students in the decision-making process on campus by acting as a liaison with administration and encouraging active participation in campus activities and student organizations, thereby promoting a positive educational environment for the campus community.

For more information, contact the Student Government Office at (406) 756-3367.

The Mercury News

The Mercury News, FVCC's student newspaper, covers campus events, issues and news of interest to FVCC students. The paper is written by FVCC students, although anyone is welcome to submit articles, stories or photographs for publication.

All enrolled FVCC students are eligible to be staff members and may earn up to three credits per semester (see journalism course offerings) while working on *The Mercury News*. To be recognized as a staff member, students must be registered for a minimum of three credits each semester. For more information, contact Lowell Jaeger at (406) 756-3907, or email mercury@fvcc.edu.

Theatre

The FVCC Theatre Arts department strives to produce a number of quality theatrical productions each academic year. FVCC Theatre produces comedies, dramas, musicals and much more in the state-of-the-art black box theatre. Auditions for acting positions and technical assistants are always open to FVCC students, employees and members of the community. For more information, contact Rich Haptonstall at (406) 756-3962, or email rhaptonstall@fvcc.edu.

Veterans' Association

The FVCC Veterans' Association is a service-support oriented organization with the primary objective of developing a foundation of understanding between veterans and non-veterans.

All students, veterans and non-veterans, are encouraged to participate as members of the association. For more information, contact Rick Halverson at (406) 756-3871 or email rhalvers@fvcc.edu.

Campus Corps

Janaya Okerlund, Supervisor
Blake Hall, Room BH 155
(406) 756-3908 - jokerlun@fvcc.edu

The mission of the FVCC Campus Corps program is to engage students in community service. Some courses offer Service Learning components in which students volunteer 15 hours of community service with non-profit agencies or schools whose work reinforces learning in the classroom. Agency supervisors evaluate the students' work and the evaluation is used by the instructors as part of assigned course work. Upon completion, students receive special designation on their transcripts.

Current partnerships through FVCC include Citizens for a Better Flathead, FVCC Recycling Club, Habitat for Humanity, Edgerton Elementary School, United Way and Whitefish Care. Students have the opportunity to volunteer for these programs, earn a living stipend and/or receive an education award. Students who provide a minimum of 300 hours of service related to their program requirements may also be eligible to receive an education award.

Internships

Karen Darrow, Career Development Coordinator
Learning Center, Room 129
(406) 756-3900 - kdarrow@fvcc.edu

Internships are academic courses that offer college credit. Like classroom work, internships are an integral part of a student's educational preparation. An internship gives the student the opportunity to apply their classroom knowledge to the workplace, learn new skills, network with potential employers and gain confidence in their abilities.

Internships are a partnership between students and local business/organizations. Some internship experiences include compensation to the student while others that meet the federal and state guidelines criteria for "work-based learning" may be unpaid. Interns spend approximately 50 hours/credit at their internship sites, usually working about 10-30 hours per week throughout the semester.

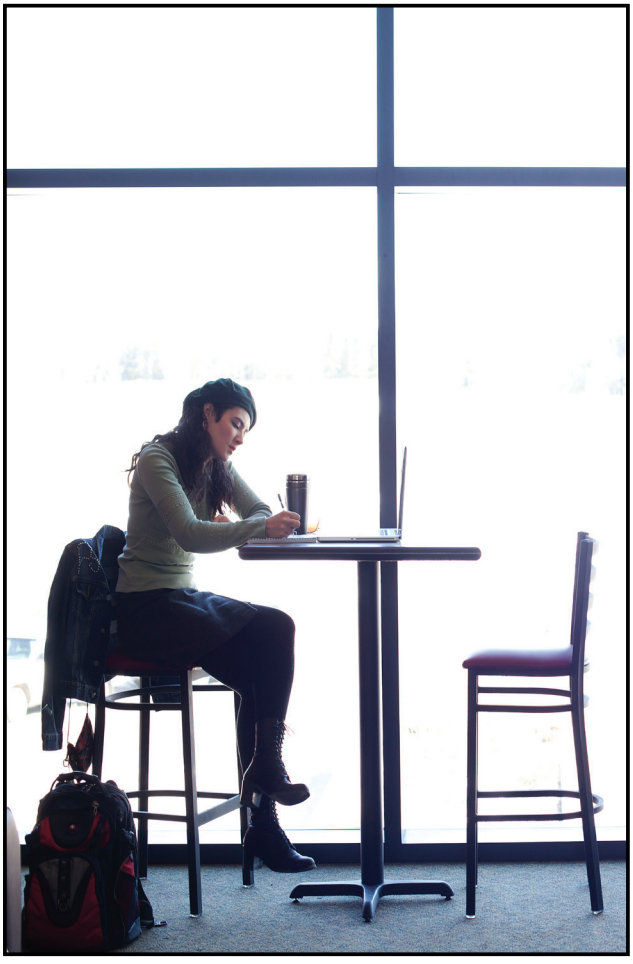
In order to be considered for placement at an internship site, complete applications, including an approved resume and list of references, must be submitted by the first Monday in July for a fall semester placement, the first Monday in November for a spring semester placement, or the first Monday in April for a summer semester placement. Internship applications are available online at www.fvcc.edu or in LRC 129.

After submitting a complete application packet, prospective interns will be interviewed by potential intern sites. Once an intern site (i.e. business or organization) accepts an intern, an internship agreement can be signed and the student intern may register for the internship course. Additionally, an instructor will be assigned to the intern to monitor the student's learning and evaluate the student's progress through assignments, evaluations, and site visits.

Study Abroad

The Study Abroad program at FVCC invites students to study internationally in both short-term (one to six weeks) and full-semester trips abroad. These cultural immersion programs to various destinations around the world provide students with a learning opportunity of a lifetime. Some of the adventures have included exploring ancient Inca ruins in Peru, trekking the magnificent Himilaya mountain region in Nepal, discovering some of the world's finest art in Venice and attending various Hindu festivals in Bali. All study abroad trips offer classes that enhance the cultural experience, such as language, social psychology, comparative religion, anthropology, numerous art classes, history and photography, among others.

To find out more about these exciting opportunities, contact Mick Stemborski at (406) 756-3945 or email mstembor@fvcc.edu.



The Scholars Program at Flathead Valley Community College

The Scholars Program at FVCC, established in 2009, provides an opportunity for highly motivated students to experience academically rigorous cross-disciplinary honors courses. The program is limited to 20 students. The seminar style courses are four credits each and are primarily taught through the Socratic method with emphasis placed on class discussion and student presentation.

The classes combine any two of the traditional academic disciplines – global issues, humanities, social sciences, mathematics, science and fine arts – and are taught by a team of two instructors. Students can choose to apply the credits toward the appropriate category of general education courses required for graduation. These courses are offered in the fall and spring semesters.

The Scholars Program offers academic preparation and curriculum planning to help students succeed in transferring to honors programs and articulates with both the Davidson Honors College at The University of Montana, and the University Honors Program at Montana State University.

Program benefits include a full-tuition scholarship plus a renewable stipend, one-on-one mentoring with faculty, an enriched learning environment with a specially designed classroom and study area and increased potential for financial aid upon transfer.

Graduates of the Scholars Program receive special designations on their transcripts and are presented with medallions at FVCC commencement. Admission requirements include a complete scholars program application, an essay, letter of reference, statement of career and academic plans, transcripts and ACT, SAT or Compass placement test scores.

For more information visit http://www.fvcc.edu/academics/the-scholars-program.html.

For further information on student activities, stop by the Student Activities Office in BH 155, or call (406) 756-3981.

Student Rights and Responsibilities

Release of Information

Flathead Valley Community College will release to outside agencies or persons, upon request, the following directory information:

- Name;
- Photograph;
- Phone number;
- Temporary or permanent address;
- Email address;
- Campus;
- Enrollment status;
- Dates of attendance;
- Area of study;
- Degrees/certificates awarded;
- Participation in officially recognized activities and sports;
- Honors and awards received; and
- Grade level.

If a student chooses not to have any or all of the directory information released, he/she is required to inform the Admissions and Records Office in writing, by submitting a *Release of Information* form available in the Admissions and Records Office. The college will not release other information without written permission, unless sub-poenaed by a court or tribunal of competent jurisdiction.

Students have the right to review and inspect all information pertaining to their educational records, including admissions and academic records. The Admissions and Records Office requires at least 48 hours notice if a student wishes to review his/her records. A student may request an amendment to his/her records on the grounds he/she feels the records are inaccurate, misleading or violate his/her rights. If the amendment is denied, the contents can be challenged through a hearing process with the Dean of Students.

According to *Family Educational Rights and Privacy Act* (FERPA) regulations, a student's educational records may be disclosed without prior written consent to specific bodies. A record of each request will be kept in the student's file. Students who believe that FVCC is not complying with the requirements of the Family Educational Rights and Privacy Act (FERPA) may file complaints in writing to: The FERPA Office, U.S. Department of Education, 400 Maryland Ave., SW, Washington, D.C. 20202-5920.

The Family Educational Rights and Privacy Act of 1974 prohibits disclosure of academic information to third parties without prior written consent of the student.

Academic Probation and Dismissal

A degree-seeking student will be placed on academic probation anytime his/her cumulative grade point average (GPA) falls below 2.0.

A student on probation will be required to meet with a retention advisor before starting the next semester to discuss academic goals and barriers and ways to achieve the goals. A review of the academic assistance available at FVCC and the development of a plan to assist the individual in achieving his/her academic goals will also take place.

If a student fails to improve his/her GPA each term while on academic probation, he/she will have two options—to choose academic suspension for a period of no less than one year or agree to a plan of extensive remediation developed by the college. If remediation is unsuccessful or if the student fails to comply with the prescribed plan, he/she will be suspended immediately for no less than one year. A student reinstated after being on academic suspension will be required to meet with a retention advisor prior to registering each semester.

Once a student's cumulative GPA improves to a 2.0 or better, he/she will be removed from academic probation or suspension status and will no longer be required to meet with a retention advisor.

Student Code of Conduct

In order to promote an atmosphere that protects students' rights and is responsive to students' needs, all students are expected to maintain acceptable standards of behavior on or off campus at any college-sponsored event. The following behavior is considered unacceptable and may lead to disciplinary action including suspension or expulsion from the college:

- Disruption in the classroom or at any college activities;
- Cheating, plagiarism and other forms of dishonesty including knowingly giving false information to the college;
- Forgery, alteration or misuse of community college documents, records or identification or computer programs or accounts;
- Physical abuse, harassment or bullying toward another person;
- Theft or damage to property of the college;
- Use/possession of illegal drugs or alcohol on or off campus at any college-sponsored event;
- Carrying/discharging firearms or other weapons on campus; and
- Unauthorized use or occupancy of college facilities.

Academic Integrity Guidelines

The faculty, staff and administration of Flathead Valley Community College believe academic dishonesty conflicts with a college education and the free inquiry of knowledge. Plagiarism, cheating, forgery, facilitating or aiding academic dishonesty, unauthorized access, or otherwise manipulating student records, and computer programs, are all forms of dishonesty that corrupt the learning process and threaten the educational environment for all students.

Plagiarism is using another person's writing or works as one's own. Plagiarism is an intolerable offense in the academic community and is strictly forbidden. Students must always carefully acknowledge others' ideas as well as words.

The consequences of academic dishonesty may vary depending on the situation and the individual instructor involved. Any student involved in academic dishonesty will be subject to disciplinary action imposed by the instructor up to and including administrative withdrawal or a failing grade for the course.

In addition, academic dishonesty is grounds for disciplinary action under the *Student Code of Conduct* rules. The student found guilty of academic dishonesty may be reported to the Dean of Students for the initiation of disciplinary sanctions ranging from a warning to expulsion from the college.

Right of Appeals and Grievances

A Student Appeals Policy (Board Policy 701) was developed for those situations that cannot be resolved informally. The purpose of the student grievance procedure is to promote the prompt and efficient resolution of student complaints (with the exception of sexual harassment charges which are dealt with in board policy number 920.1, page **33**) about college faculty, administration, classified staff, professional and temporary employees. Copies of the current policy, procedures and the Student Appeals Complaint Form may be obtained from the Information Desk, Student Services, the Vice President of Instruction and Student Services' Office, Student Senate or the Library.

The term "complaint" shall mean a claim or allegation by a student that members of the college faculty, administration, professional, or classified staff:

1. Significantly failed to carry out their professional responsibilities or failed to deal with a student fairly and impartially;

2. Significantly failed to carry out an assigned responsibility or failed to apply college policy fairly and impartially; or

3. Performed an action which impinged on the rights or activities of a student in the legitimate pursuit of the educative process.

Procedure

Step 1

Informal resolution of a problem must be attempted first by communicating with the person(s) against whom the complaint exists. This communication may be accomplished orally or in writing. If the complaint is oral, a mutually agreeable meeting time and place shall be established. Each party may bring another person as a witness. If the student's complaint is made in writing, all documents shall be dated and signed and the employee's written response must be made within seven (7) calendar days of receipt of the written complaint.

Step 2

If the matter cannot be informally resolved, a student may make a formal request using the Student Appeals Complaint Form. The form identifies the complaint and desired remedy. It is submitted to the Student Appeals Officer for a hearing before the employee's supervisor. The Step Two hearing will be held within ten (10) working days of the receipt of this written request. Those present at this session shall be the student, the person against whom the grievance is filed, the complainant's supervisor and the Student Appeals Officer. The student may also request that either his/her advisor or counselor and/or the Dean of Students be present. The supervisor shall decide upon the requested remedy at the conclusion of this meeting. The student may either accept this decision or refer the complaint for Step Three resolution. If a complaint is lodged by a student against the college President, the Step Two procedure will be bypassed and the Step Three process will be initiated.

Step 3

If a student feels the matter was not resolved satisfactorily at Step Two, he/she shall instruct the Dean of Students to convene the Student Appeals Committee for Step Three. The Student Appeals Committee shall consist of two (2) members of the faculty appointed by the Faculty Senate President, two (2) members from within the college community (other than faculty or students) appointed by the college President, two (2) students appointed by the college Student Senate and one (1) student appointed by the Dean of Students.

Within ten (10) calendar days of the completion of the fact finding portion of Step Three, the Student Appeals Committee shall review its findings and issue a decision. If the complaint is denied, the committee's decision shall be the final college disposition of the complaint. Copies of the resolution of the claim or allegation shall be forwarded to the college President, the appropriate Dean or Director and to each of the parties.

If a student seeks resolution of a complaint in any forum other than that established by this procedure, whether administrative or judicial, the parties to the complaint shall have no obligation to proceed further under the provisions of this procedure.

Cell Phones

Cell phones and other noise-making devices are required to be turned off in classrooms, labs, library and study areas and at other functions where they may be disruptive.

Student Publications

Flathead Valley Community College recognizes that student publications are a valuable aid in establishing and maintaining an atmosphere of free and responsible discussion and intellectual exploration. They serve as vehicles to bring student concerns to the college community's and public's attention, and formulate student opinions on various issues.

As citizens, students enjoy the same basic rights and are bound by the same responsibilities as are all citizens. Among these rights are freedom of speech and freedom of press. The Flathead Valley Community College Board, faculty and staff shall not exercise editorial control over student publications, except where specifically provided by FVCC policies and procedures. The college shall not be deemed to endorse the content of these publications unless so stated.

Waiver of Regulations

Rules and regulations contained in this catalog have been adopted by the Flathead Valley Community College faculty, administration and Board of Trustees and are subject to modification and revision. Students who feel that extenuating circumstances might justify the waiver of any college regulation may file a petition with the Dean of Students.

Drug and Alcohol Policy

Flathead Valley Community College is committed to maintaining a work and learning environment free of drug and alcohol abuse and strives to create an environment that promotes healthy and responsible living and respect for community and campus standards and regulations. The following guidelines describe college policy regarding the use of alcohol and drugs:

- The possession, use and/or consumption of alcohol and/or illicit drugs by anyone on or off campus at any college-sponsored event is prohibited;
- The distribution of alcohol by the college or by any college-affiliated organization is prohibited;
- Alcohol-free events are promoted;
- Assistance should be provided to individuals who are abusing drugs and alcohol;
- Safe transportation to and from events is encouraged; and
- Ongoing education is provided by Flathead Valley Community College to inform individuals about the potential risk associated with excessive use of alcohol and the illicit use of drugs.

Tobacco-free Policy

The College is committed to complying with the Montana Clean Indoor Air Act, and further supports a healthy, comfortable and productive work environment for all students, employees and visitors to the campus. Therefore, FVCC prohibits any form of smoking including the use of electronic cigarettes (e-cigarettes) or any form of tobacco usage in all of its campus facilities as well as at all points of entrance and exit from its facilities, including all walkways and parking lots. Smoking or tobacco usage is only allowed inside designated enclosures or designated tobacco usage areas. Failure to comply will result in disciplinary action as stipulated by College Policy for student infractions and the appropriate disciplinary process as set forth in collective bargaining agreements or Board of Trustees policy for faculty and staff.

Sexual Harassment Policy

Flathead Valley Community College recognizes the importance of every individual's personal dignity and is therefore committed to providing an educational and work environment where students, faculty and staff are safe, secure and respected. FVCC is committed to serving as a learning community free of all forms of sexual harassment, exploitation or intimidation. Sexual harassment unfairly interferes with the opportunity for all persons, regardless of gender, to have comfortable and productive education and work environments.

It is also unlawful and against college policy to retaliate against an employee or student for filing a complaint of sexual harassment or cooperate in an investigation of sexual harassment.

Sexual harassment consists of unwanted or unwelcome behavior of a sexual or gender directed nature severe or pervasive enough to create an intimidating, hostile or offensive work or learning environment when:

A. Submission to such conduct is made (either explicitly or implicitly) a term or condition of instruction, employment, or participation in any other college activity (quid pro quo); or
B. Submission to or rejection of such conduct by an individual is used as a basis for evaluation in making academic or personnel decisions affecting an individual (quid pro quo); or
C. Such conduct has the purpose or effect of unreasonably interfering with an individual's performance or creating an intimidating, hostile, or offensive work or learning environment.

Sexual harassment may result from an intentional or unintentional action and can be subtle or blatant. It can be verbal or physical and can occur in any setting, and the spectrum of behavior may range from verbal remarks to physical assault. The context of events and the totality of the circumstances surrounding those events are important in determining whether a particular act or series of events constitutes sexual harassment.

Student's Responsibility

A student should speak up about sexual harassment when he/she witnesses or experiences it, either among students or staff. Retaliation is illegal.

A student who has been a victim of any form of sexual harassment, knows someone who has been a victim, or has questions regarding sexual harassment should contact the Vice President of Instruction and Student Services at (406) 756-3894. Students may also contact Title IX liaisons in each campus building. The names of Title IX liaisons are posted in each building.

Campus Safety

FVCC works diligently to provide a safe learning environment for students, faculty, staff and visitors. For a copy of the annual crime report or to register for FVCC's emerging notification system powered by e2campus, visit www.fvcc.edu/current-students/student-life/campus-safety.html.

Student Consumer Information

The following information is available to the general public, prospective students and enrolled students. Please refer to the specific contact information to obtain additional information or to receive printed documentation. This information may also be requested in writing or viewed on our web site at www.fvcc.edu.

Campus Safety Information
- Campus security policies and crime statistics - *Annual Campus Crime Report*
- Warnings of forcible and non-forcible offenses will be sent via e2Campus alerts and posted on bulletin boards in a timely manner on campus.
  Safety Committee Chair: (406) 756-3901
  Dean of Students: (406) 756-3812
  Lincoln County Campus: (406) 293-2721
  www.fvcc.edu/current-students/student-life/campus-safety.html

Drug and Alcohol Abuse Prevention
- Drug and Alcohol Policy - FVCC Catalog, p. 29
  Counselor: (406) 756-3886
  Coordinator: Student Activities and Development: (406) 756-3981
  Lincoln County Campus: (406) 293-2721

Family Educational Rights and Privacy Act (FERPA)
- Student Rights and Responsibilities - FVCC catalog, p. 27
  Registrar: (406) 756-3846
  Lincoln County Campus: 406) 293-2721

Financial Aid Information
- Types of Aid - FVCC catalog, p. 15
  Financial Aid Office: (406) 756-3849
  http://www.fvcc.edu/about-fvcc/administration-governance/administrative-departments/business-services/tuition-fees.html

General Information
- Tuition and Fees
  http://www.fvcc.edu/about-fvcc/administration-governance/administrative-departments/business-services/tuition-fees.html
- Academic Programs - FVCC catalog, p. 50-184
  http://www.fvcc.edu/academics.html
- Disability Support Services - FVCC catalog, p. 19
  Specialist, Disabilities Services and Assessment: (406) 756-3881
  http://www.fvcc.edu/current-students/student-resources/learning-center/disability-support-services.html
- Accrediting Agency - Northwest Commission on Colleges and Universities - FVCC catalog, p. 5
  http://www.nwccu.org/

Graduation Completion Rate
- *Executive Director, Institutional Research, Assessment and Planning: (406) 756-3619*

Refund Policy
- College refund policy - FVCC catalog, p. 13
  Business Services Office: (406) 756-3831
  Lincoln County Campus: (406) 293-2721
  http://www.fvcc.edu/admissions/register-for-classes/refund-policy.html
- Withdrawal/Return of Title IV Funds - FVCC catalog, p. 16
  Financial Aid Office: (406) 756-3849
  Lincoln County Campus: (406) 293-2721
  http://www.fvcc.edu/admissions/financial-aid/rights-responsibilities/withdrawal-policyreturn-of-title-iv-funds.html

Sexual Harassment Policy
- Sexual Harassment Policy - FVCC catalog, p. 29
  Vice President of Instruction and Student Services: (406) 756-3894

Transfer to Other Institutions

FVCC is fully accredited, enabling students to transfer to other colleges or universities with ease. Courses numbered 100 or above are considered transfer courses. FVCC keeps in frequent contact with other Montana colleges and universities in order to accommodate changes in curriculum and programs and to provide the best advising to students. Written transfer agreements with all six Montana University System units, as well as many other colleges and universities, are available from advisors or in the Admissions and Records Office.

Regardless of the number of credits earned at FVCC, the number accepted toward a degree at another institution is determined by the institution awarding the degree. A student will be expected to meet the program requirements in effect at the institution to which he/she transfers. A FVCC student who has completed the FVCC general education core requirements can transfer to any Montana University System school and be guaranteed the transfer institution's lower division core requirements have been met.

Contact the Transfer Advisor at (406) 756-3887 for transfer assistance.

How to Transfer

A student who plans to transfer to a four-year college or university, should follow these steps:

1. Plan Ahead
a. Obtain or view online a current catalog from the transfer institution;
b. Review the transfer institution's transfer and major requirements. Enroll in classes a typical freshman and sophomore take for the major field of interest selected; and
c. Review the transfer institution's course equivalency guides or the Montana University System course equivalency guide at www.mus.edu/Transfer/transfer.asp.

2. Keep in Touch and Pay Attention

a. Confer with the faculty advisor about fulfilling FVCC's and the transfer institution's general education and major requirements;
b. Contact the transfer advisor to assist in the transfer process;
c. Contact the Admissions Office and/or the major department of the transfer institution to learn about applicable transfer regulations. For example, several schools will only accept a grade of "C" or higher for major requirements. Similarly, some programs such as nursing and education have specific application deadlines; and
d. Meet with the faculty advisor and transfer advisor often to assure a smooth transfer and appropriate course selection.

3. Apply for Admission

a. Apply for admission and send official copies of transcripts to the transfer institution. Or, request a transmittal of record to be forwarded to any college within the Montana University System for $8 at the Admissions Office in Blake Hall.

Single Admissions File/Transmittals

In order to assist undergraduate, degree-seeking students who (1) transfer between units of the Montana University System; or (2) enroll in coursework at more than one unit of the Montana University System in the same semester, the Montana Board of Regents authorizes a "single admissions file" that will follow the student throughout the System, much like a patient's medical records, regardless of which campus(es) the student enrolls in.

If a student decides to attend another unit of the Montana University System under the two (2) situations described above, the student must complete a Request for Transmittal of Application Materials and submit it to the FVCC Admissions and Records Office. The Admissions and Records Office will prepare a certified copy of the student's admissions file and pass it along to the unit or units identified in the admissions file transmittal form. **An $8.00 fee will be assessed for the transmittal of records.**

Copies of the Single Admissions policy (MUS policy 301.5.4) are available from the FVCC Admissions and Records Office or from Montana Board of Regents' web site at http://mus.edu/borpol/bor300/301-5-4.pdf.

Transfer Agreements

Transfer agreements have been established in certain programs to facilitate transfer of Flathead Valley Community College credits to other institutions. Agreements include articulation procedures as well as course equivalency lists. The agreements guarantee transfer of credits once specific curriculums have been satisfactorily completed. Students interested in transferring under articulation agreements should discuss their plans with their academic advisors early in their studies.

Degree Completion Opportunities in the Flathead Valley

College students in the Flathead Valley have several opportunities to earn bachelor and master degrees upon graduating with their associate degrees. At FVCC, students can earn Associate of Arts or Associate of Science degrees which prepare them to successfully transfer to any four-year college or university as juniors. Students interested in pursuing career and technical degrees can earn a variety of Associate of Applied Science degrees at FVCC. Students who earn AAS degrees and choose to continue their education can easily apply their degrees toward Bachelor of Applied Science degrees. In partnership with several Montana universities, FVCC provides the setting for students to complete bachelor's and master's degree programs without leaving the valley.

The University of Montana - Missoula

In partnership with The University of Montana (UM), students may earn the following degrees through UM:

- **Bachelor of Arts in Social Work**
  For more information, call (406) 243-5543; or visit www.health.umt.edu/schools/sw/default.php.
- **Master of Business Administration**
  For more information, contact MBA program assistant at (406)-243-2064 or visit mba.business.umt.edu.
- **Master of Education in Curriculum Studies** (online degree)
  For more information, contact Morgen Alwell, graduate co-coordinator at morgen.alwell@umontana.edu or at (406) 243-5512; or Matthew Schertz, graduate co-coordinator at matthew.schertz@umon tana.edu or at (406) 243-2163; or visit http://coehs.umt.edu/currinst/master/admission.html.
- **Master of Education in Educational Leadership** (online degree)
  For more information, contact Sarah Knobel at Sarah.Knobel@mso.umt.edu or at (406) 243-5586; or visit www.coehs.umt.edu.
- **Master of Public Administration** (online degree)
  For more information, contact Dr. Jeffrey Greene at jeffrey.greene@umontana.edu or at (406) 243-6181; or visit www.cas.umt.edu/polsci.
- **Library Media Endorsement** (online program)
  For more information, contact Michael Schulz at m_schulz@umwestern.edu or at (406) 683-7492; or visit http://www.umwestern.edu/programs/outreach/continuing-education.
- **Doctor of Education** (cohort in Missoula)
  For more information, contact Sarah Knobel at Sarah.Knobel@mso.umt.edu or at (406) 243-5586; or visit www.coehs.umt.edu.
- **For online classes,** visit www.umt.edu/ce and select "UM online," or contact Jeffrey Wimett at jeffrey.wimett@umontana.edu or at (406) 243-4470.

Montana State University - Bozeman

In partnership with Montana State University - Bozeman, students may earn the following degrees through MSU:

- **Bachelor of Science in Nursing**
  Students may complete their entire Bachelor of Science in Nursing degree in the Flathead, if accepted into the Kalispell clinical site. For more information, contact Dr. Sue Justis at sjustis@fvcc.edu or at (406) 756-3866.

- **Bachelor of Arts in Liberal Studies (online)**
  For more information, contact Peg Wherry, Director of Online and Distance Learing, at margaret.wherry@montana.edu or (406) 994-6685.

Montana State University - Billings

In partnership with Montana State University - Billings, students may earn the following degrees online. For more information, contact the advising center by calling (406) 657-2240 or (800) 565-6782 or by emailing advising@msubillings.edu; or visiting www.msubillings.edu/msubonline/.

- **Bachelor of Applied Science**
- **Bachelor of Arts in Communication - Mass**
- **Bachelor of Arts in Organizational Communication**
- **Bachelor of Science in Business Administration, Accounting or General Business**
- **Bachelor of Science in Health Administration**
- **Bachelor of Science in Liberal Studies**
- **Bachelor of Science in Public Relations**
- **Master of Health Administration**
- **Master of Rehabilitation and Mental Health Counseling**
- **Master of Science in Public Relations**
- **Master of Science in Special Education**

Montana State Northern - Havre

In partnership with Montana State University - Northern, students may earn the following degree online. For more information, call (406) 265- 3736.

- **Bachelor of Science in Business Administration**

Montana Tech of The University of Montana

In partnership with Montana Tech of The University of Montana, students may earn the following degree through Montana Tech - UM. For more information, contact Charlie Faught at cfaught@mtech.edu or at (406) 496-4884.

- **Bachelor of Science in Health Care Informatics**

University of Great Falls

In partnership with the University of Great Falls (UGF), students may earn the following degrees through the UGF in the Flathead Valley:

- **Bachelor of Arts in Elementary Education**
  Faculty from UGF, FVCC and local professional educators provide regular live instruction to complete this degree and for some secondary education fields in the Flathead or to earn endorsements in reading instruction and special education.
- **Bachelor of Arts in Secondary Education** for English, History, Math and Social Studies, and teacher certification classes for students with a Bachelor's Degree.
- **Bachelor of Arts in Psychology**
- **Bachelor of Science in Criminal Justice**

For more information on any of the UGF programs, contact Dennis Haverlandt at (406) 756-8042 or at ugffvcc@ugf.edu.

Transcripts

A transcript is an official record of each student's course work at FVCC and is maintained in the Admissions and Records Office. Requests for transcripts must be made in writing by the student to the Admissions and Records Office. Transcripts are free, but allow 5-10 business days to process each request. Rush and fax requests are $15 per transcript and will be processed within 1-2 business days. Current students may print an unofficial transcript through the student portal at www.fvcc.edu. Transcripts are withheld if students have library fines or owe money to the college.

Transfer of Credits to FVCC

Students wishing to transfer credits to FVCC must:

1) Have a completed application on file in the Admissions Office; and
2) Arrange to have an official transcript of previously attended institutions mailed to the FVCC Admissions and Records Office. Transcripts should be submitted at least 30 days before the semester begins. Credits will be evaluated by the Admissions and Records Office and accepted according to current scholastic standards. Students will be given written notification of the evaluation and the evaluation will be posted on the student portal. The number of credits accepted will be posted on the student's FVCC transcript.

General Education Core

An undergraduate student entering or moving from one institution to another within the Montana Unversity System who has not completed the general education core at the sending institution will be required to either complete the general education core at the campus to which they transfer or complete the MUS core.

FVCC, as a public institution legally committed to church-state separation, cannot accept as fulfilling the Humanities requirement those doctrinally-oriented courses in religion, scripture study and theology which are taught at Bible schools, seminaries, and theological institutes or which are directed primarily toward training clergy and lay missionaries in a specific faith or set of religious beliefs.

Outdated Coursework

In evaluating coursework from postsecondary institutions, the campuses within the Montana University System will:

1) Guarantee that any postsecondary coursework taken within five (5) years of being admitted or readmitted to the campus will be included in the transfer analysis of specific required classes in a major, minor, option or certificate;
2) Guarantee that any postsecondary coursework taken within fifteen (15) years of being admitted or readmitted to the campus will be included in the transfer analysis of general education coursework; and
3) Guarantee that any postsecondary coursework taken within fifteen (15) years of being admitted or readmitted to the campus will be included in the transfer analysis of elective coursework.

Coursework that falls outside these guarantee periods may be included in the evaluation, at the discretion of the individual campuses. Since it is a discretionary decision, it cannot be challenged by students.

Transfer Appeal Process

The following process has been implemented to assist students in resolving any questions or concerns they may have regarding the evaluation and acceptance of their transferred credits:

1. The student should complete the *Request to Appeal Evaluation of Credits Transferred to FVCC* form. (Forms are available in the Admissions and Records Office.)
2. The student should obtain a copy of the description for the course(s) in question; if it is available, the course syllabus is preferred.
3. If the course(s) under review will be applied toward either an AA or AS degree, the student should take this information and any other pertinent information they may have to the appropriate division chair. If the course(s) in question will be applied toward an AAS degree or certificate program, the student is directed to see the faculty in the appropriate program of study.
4. The division chair or progam faculty review the material supplied by the student and either concur with the decision of the Admissions and Records Office or agree to accept the credit.
5. If the division chair/program faculty agrees with the decision of the Admissions and Records Office, the student can appeal the decision to FVCC's Vice President of Instruction and Student Services.
6. The decision of the Vice President of Instruction and Student Services will be final.

Courses and Credits

Credits

The typical unit of measurement of college work is called a credit hour. One credit is usually assigned for one lecture or laboratory period per week. The lecture period consists of 50 minutes; the laboratory period may consist of two or more hours. In addition to class time, the average student may expect two hours of outside work for each period of lecture or laboratory.

Class Standing

Freshmen are degree-seeking students who earned fewer than 30 semester credits. Degree-seeking students who have completed 30 or more semester credits are considered sophomores.

Full-time Student

In general, FVCC defines a full-time student as a person enrolled in 12 or more credit hours per semester. A part-time student is enrolled in 11 or fewer credits per semester. However, other definitions of full-time and part-time loads exist specifically pertaining to athletes, veterans, Social Security recipients, etc.

In order to earn a degree in two years, a student must enroll in an average of 15 credits per semester. For more information see your assigned academic advisor.

Students registering for more than 18 credits are required to obtain special approval from the Registrar/Admissions Coordinator or the Associate Registrar.

Military Credits

Credits may be earned for courses completed in military service schools and training programs at the associate degree level as recommended by the American Council on Education in "A Guide to Evaluation of Education Experiences in the Armed Services." A student is required to provide an official *DD-214* and any transcripts of courses completed. **A maximum of 15 credits may be used toward an associate degree.**

Credit for Prior Experiential Learning/Work Experience

Course Substitution: A student who believes he/she possesses skill proficiency due to work experience can request a substitute class. The appropriate Division will review the student's credentials that support proficiency, and if satisfied the student meets the class requirements, can approve a substitute class of equal or greater academic or technical content to be completed in substitution for the required class. This can include independent study course offerings.

Course Challenge: See page 35 for the course challenge policy.

Advanced Placement (AP) and CLEP Credit

Students may earn college credit by taking Advanced Placement (AP) Program tests while in high school and providing official transcripts showing satisfactory scores. The College Level Entrance Exam (CLEP) Program can also be used by anyone who can demonstrate competency in a variety of subjects by receiving a satisfactory grade on a CLEP general or subject test. FVCC awards credit based on ACE (American Council on Education) recommendations for both AP and CLEP.

The closest CLEP testing site is at The University of Montana, and their testing center can be reached at (406) 243-2175. Official transcripts can be obtained from CLEP Transcript Service, PO Box 6600, Princeton, NJ 08541-6600 or calling (609) 771-7865. Tests cost $70 each and are instantly scored (except the English Writing Test with Essay).

The FVCC policy for accepting either AP or CLEP credit is:

1. Students must be degree-seeking.
2. Official transcripts showing scores at the ACE minimums or above will be awarded credit with an "S" (satisfactory) grade. This grade is not used for calculation of the student's grade point average. The number of credits awarded per test is determined by the Admissions and Records Office.
3. There is no limit to the number of credits that may be granted, but only 15 credits of "S" grades may be used towards graduation requirements.
4. General Education courses may be satisfied with CLEP/AP credit. The Admissions and Records Office makes these designations on the student's FVCC transcript. Caution: Every college and university makes their own policies on the acceptance of CLEP and AP credit. Students intending to transfer cannot automatically assume every school will accept these credits as FVCC does. Students should verify the intended school's policy.

Department approval may be necessary to replace specific requirements with CLEP/AP scores in the major.

Subject	AP Score	Credit/Placement
Art (Visual & Studio)	3	ARTZ 105F(3)
Art (History)	3	ARTH 200FGH & 201FGH (3,3)
Economics	3	ECNS 201B & 202GB (3,3)
English	3 (for score on either the language and composition or the composition and literature exam)	WRIT 101W (3)
	3 (for score on both the language and composition and the composition and literature exams)	WRIT 101W & 201W (3,3)
Italian (Language)	3	ITLN 101GH & 102GH (5,5)
French (Language)	3	FRCH 101GH & 102GH (5,5)
German (Language)	3	GRMN 101GH & 102GH (5,5)
Russian (Language)	3	RUSS 101GH & 102GH (5,5)
Spanish (Language)	3	SPNS 101GH & 102GH (5,5)
Political Science	3	PSCI 210B (3)
History - World	3	HSTR 101B & 102B (4,4)
History - American	3	HSTA 101B & 102B (4,4)
Math A.B. Exam	3	M 171M (5)
Math B.C. Exam	3	M 171M & 172M (5,5)
Psychology	3	PSYX 100A (4)

AP credits are available for biology, chemistry, and physics if the AP score is three or greater under the following conditions:

1. AP credits may be granted for the lecture portion of the course at the discretion of the appropriate college department; and
2. AP credits may be granted for the laboratory portion of the course. Students applying for such credit must document their high school laboratory experience with lab reports/notebooks. The decision to grant credit for the laboratory portion will be made by the appropriate college department.

Credits for other AP exams may be available.
Contact the Admissions and Records Office for more information.

International Baccalaureate (IB)

Students may earn college credit by taking International Baccalaureate tests while in high school and providing official transcripts showing satisfactory scores. International Baccalaureate credits will be accepted for college credit on a case-by-case basis until an official college policy is put in place.

Up to 30 credits of IB credit with scores of four or higher on the higher level exam will be accepted, however only a maximum of 15 credits may be used towards graduation.

IB Credit

Flathead Valley Community College recognizes IB achievement and awards eight credits for each higher level exam passed with examination scores of four or higher. **STANDARD LEVEL EXAMS ARE NOT ACCEPTED.**

IB Examination	Minimum Score	Semester Credit	Gen Ed*
Biology HL	4	8	NL
Business & Mgmt. HL	4	8	–
Chemistry HL	4	8	NL
Classical Languages HL	4	8	GH
Design Technology HL	4	8	–
Economics HL	4	8	B
English A1 HL	4	3 credit W 5 credit H	W, H
English A2 HL	4	8	W
English B HL	4	8	W
French A1 HL	4	8	GH
French A2 HL	4	8	GH
French B HL	4	8	GH
Geography HL	4	8	G
German A1 HL	4	8	GH
German A2 HL	4	8	GH
German B HL	4	8	GH
History HL	4	8	B
Info Tech Global Society (ITGS) HL	4	8	–
Islamic History HL	4	8	GB
Language B HL	4	8	GH
Mathematics HL	4	8	M
Philosophy HL	4	8	H
Physics HL	4	8	NL
Psychology HL	4	8	A
Social & Cultural Anthropology HL	4	8	GA
Spanish A1 HL	4	8	GH
Spanish A2 HL	4	8	GH
Spanish B HL	4	8	GH
Theatre Arts HL	4	8	FH
Visual Arts HL	4	8	F

***Key**

– - Elective
F - Fine Arts
G - Global Issues
H - Humanities
M - Mathematics
N - Natural Science w/o Lab
NL - Natural Science w/Lab
A, B - Social Sciences
W - Writing

Repeating Courses

Students may repeat any courses offered by FVCC. However, credits will be granted for the courses only once unless the catalog lists the classes as repeatable for credit. Each time students take the classes, the grades and credits will be recorded on their transcripts. This information will not be removed, but only the last grades and credits will affect the grade point averages and total number of credits. Non-letter grades such as I, AU, W and WI will not replace letter grades such as A or B. **If students receive financial aid or veterans' benefits, they should check with the Financial Aid Office before repeating a course.**

Course Challenge

A student admitted to FVCC may petition to challenge courses based on work done through private study and/or experience or to validate courses taken at non-accredited institutions. Course challenges will be considered on an individual case basis. Only courses listed in the current college catalog may be considered for challenge, although not all of the courses may be challenged. Additional stipulations include the following:

- Students are not permitted to challenge a prerequisite course after having completed an advanced course.
- Credit by examination will not be granted for a course that a student has previously taken for credit or audited.
- Credit will be granted provided the student earns the equivalent of a grade of "C" or better.
- Neither the grade of "S" nor credit earned through the challenge process will be counted in any given semester to determine credit load or grade point average, nor will they be included in computing cumulative grade point averages.
- Students may challenge a course prior to or during enrollment through the first week of the semester.
- Prior to challenging a course, a request to challenge form must be completed with the approval of the full-time faculty member and Vice President of Instruction and Student Services.
- A $50/course challenge fee must be paid before taking the exam.

Math Waiver / Substitution Policy

Students with a math disability may apply to waive M 095, M 121M and M145Q, provided the courses are not program requirements. The waivers apply only to potential Associate of Arts graduates. All students may petition for math course substitutions. Applicants should make requests prior to the semester in which graduation is expected. Contact Laura VanDeKop at (406) 756-3998 for a complete copy of the policy.

WRIT 101 Bypass Policy

Students who meet one of the following criteria may bypass WRIT 101 College Writing I and enroll in WRIT 201 College Writing II to satisfy a WRIT 101 requirement. The student does not receive a grade for WRIT 101, nor is the student waiving a composition course. This is not a challenge policy, meaning that students must still take a writing course as required by their program or course of study, but can choose to challenge themselves in a higher level course if one of the following criteria is met:

- A score of 99 on the COMPASS placement test
- A score of at least 32 on the ACT combined English/Writing section
- A score of at least 11 on the ACT Writing Test Subscore
- A score of at least 700 on the SAT Writing Section
- A score of at least 11 on the SAT Essay Subscore
- A score of at least 5.5 on the Montana Univeristy System Writing Assessment

Students may still bypass WRIT 101 through AP, IB, and CLEP. (See pages 34-35 of this catalog.)

Interactive Television (ITV) Courses

State-of-the-art interactive television (ITV) allows both the Kalispell campus and the Libby campus to televise and receive live, two-way audio and video transmissions of select FVCC courses. Additional technology fees apply only to students registering to attend at a remote site. These courses will have section numbers in the 70's in semester schedules.

Online Courses

Online courses allow students and instructors greater flexibility. Credit for these courses may be applied to certificate or degree programs. Additional technology fees apply. Students are responsible for obtaining access to a computer with internet access, the required browser and software, and a personal email account. For specific requirements, visit **www.fvcc.edu/academics/online-education.html** and click on "Please click here for a system check before you log in." Students may use the campus computer labs as scheduling permits.

There are two types of online courses available at FVCC, hybrid and fully online. Hybrid courses replace some face-to-face time with an online requirement, but there will still be some required meetings on campus. These courses will have section numbers in the 90's in semester schedules.

Fully online courses have no requirement for coming to campus or meeting face-to-face with instructors and take place completely online. However, online courses are *not* self-paced. Students are responsible for accessing their courses promptly and for meeting course due dates and deadlines. These courses will have section numbers in the 80's in semester schedules.

For complete information regarding online courses at FVCC, including how to access your courses once you have registered, please visit "Online Resources" on the FVCC web site at **www.fvcc.edu/academics/online-education**.

Students registered for a fully online course who need technical assistance can contact the FVCC Helpdesk at 1-877-443-5741 or onlinehelp@fvcc.edu. Desire2Learn also provides 24/7 technical support at 1-877-325-7778.

Independent Study

Credits through independent study are available to allow students to study in subject areas outside existing courses.

An independent study proposal should include a detailed description stating the objective(s) and the methodology of research and/or instruction to be employed by the student and the instructor.

An independent study course is developed with the guidance of a supervising full-time faculty member. The Vice President of Instruction and Student Services and division chair must approve all independent study proposals. Each credit of independent study should involve 45 plus hours of study. Regularly scheduled classes are not available for independent study.

Regular tuition and fee costs will be charged for independent study courses, and registration must be completed before starting the course.

A $40 late registration fee will be assessed to students registering for an independent study course after the third week of the semester or after the start of the course, whichever is later.

Directed Study

Directed study courses are courses currently approved by the Curriculum Committee, included in the current catalog and taught on an individual basis by full-time instructors at the same level as regularly scheduled courses.

The directed study option can be utilized only in unusual circumstances and is not an alternative to inadequate planning or inconvenient timing. Only persons who normally teach the courses are expected to teach the directed study courses. Regular tuition and fees will be charged for every directed study credit. Registration must be completed within the first three weeks of the semester.

Grades

Grade Reports

Grade reports are available at the end of each academic semester after all financial obligations to the college are met. Grade reports are available online at www.fvcc.edu (student portal) or students can provide a self-addressed, stamped envelope to the Admissions and Records office.

Students are required to meet course requirements to receive grades and credits. The courses will not be recorded on official transcripts unless one of the below grades is received.

All of the campuses that make up the Montana University System have adopted a grading system that includes pluses and minuses. This means that faculty system-wide now have the right to award letter grades that include a plus or a minus (i.e., B+, B and B-; or C+, C and C-). Students should be aware of the following details; however, faculty members are not required to attach a plus or minus to their letter grades. That flexibility is based on the very important principle that faculty have the right to determine grades in their classes, based on their evaluation of student work. The highest grade a student can earn is an A. An A+ grade is not possible. Pluses and minuses will not be attached to an F. If a student has failed a class, the amount or degree of failure is unimportant.

GRADE	INTERPRETATION	GRADE POINTS
A	High degree of excellence	4.0
A-		3.7
B+		3.3
B	Above average	3.0
B-		2.7
C+		2.3
C	Average	2.0
C-		1.7
D+		1.3
D	Below average	1.0
D-		0.7
F	Failure	0.0
S	Satisfactory (Equivalent to a "C" or better)	N/A
SA*	Satisfactory/Advance The student has achieved the needed competencies to advance to a higher level course.	N/A
SR*	Satisfactory/Repeat The student has met individual expectations but must repeat before advancing to a higher level course.	N/A
U	Unsatisfactory completion of course	N/A
I	Incomplete	N/A
AU	Audit	N/A
W	Withdrawal	N/A
WI	Withdrawal by Instructor or Administrative Withdrawal	N/A
NG	No Grade The instructor has not submitted a grade for the student at the time of posting.	N/A

* This grading option is only available for developmental courses that can be repeated for credit.

Grade point average (GPA) is determined by dividing total grade points by number of semester hours attempted. S, SA, SR, U, I, W, WI, AU and NG grades are not included in the calculations. If the course has been repeated, the last grade received in a course will be used to calculate the GPA with the exception of W, WI, AU, NG or I grades.

If a student receives a grade he/she feels is inaccurate or inequitable, the student should consult with the instructor. Only the instructor can initiate a grade change. This is done by completing a grade change form and filing it with the Admissions and Records Office. The change will appear on the student's transcript, and the student will not receive any other notice of the correction. If the student feels the situation has not been resolved equitably, he/she should review the *Student Appeals Procedure*. Copies of this procedure are available by calling the Dean of Students at (406) 756-3812.

The maximum time frame to petition a revision/change to student transcripts or records is within two years of the semester in question. The maximum time frame to petition adjustments to records prior to fall semester 2011 is within 10 years of the semester in question.

Honors

FVCC recognizes academic achievements according to the following standards.

Dean's List

A student taking 12 or more credits in courses numbered 100 or above and earning a grade point average (GPA) of 3.5 or more for that semester will be placed on the honor roll. The honor roll is distributed to area newspapers for publishing unless a student files a do not release form in the Admissions and Records Office.

Graduation with Honors

Students graduating with final cumulative grade point averages of at least 3.75, will receive honors designations on their college transcripts. To be acknowledged at the graduation ceremony with high honors, students must have a cumulative GPA of at least 3.75 as of the semester prior to graduation.

Satisfactory/Unsatisfactory

Satisfactory/Unsatisfactory ("S/U") grading is available only at the discretion of the instructor. A limit of 15 semester credits graded "S" may count toward an associate degree at FVCC.

Note: Transfer students must check their transfer institutions' policies regarding acceptance of "S" credits.

Minimum Course Grades

All students must earn a "D-" or better in all classes used to satisfy elective credits in an associate or baccalaureate degree program; a "C-" or better in all classes used to satisfy a general education program; and a "C-" or better in all classes used to satisfy the prerequisites or required courses in a major, minor, option or certificate.

NOTE: Students need to be aware that although "C-" grades are accepted in general education, prerequisite and required courses (with some exceptions), students must maintain a cumulative grade point average of 2.0 ("C") to graduate. The grade point equivalent of the "C-" grade is 1.7 which does not meet the 2.0 GPA graduation requirement.

The Minimum Course Grades policy applies to all students who are enrolled in the Montana University System or the three community colleges on or after fall 2005.

Copies of the Minimum Course Grades policy (MUS policy 301.5.3) are available from the FVCC Admissions and Records Office or from Montana Board of Regents' web site at http://mus.edu/transfer/minimumgrades.asp.

Incomplete

An incomplete ("I") grade is given when, in the opinion of the instructor, there is strong probability the student can complete the course without retaking it. In all cases, the "I" grade is given at the discretion of the instructor within the following guidelines:

- The student has been in attendance and doing passing work up to three weeks before the end of the semester;
- The student is unable to complete the requirements of the course on time because of extenuating circumstances, i.e., illness, death or illness in the immediate family, family emergencies, or military orders;
- The instructor sets the conditions for the completion of the course work including the time period within which the work must be made up (Due date for make-up);
- The instructor prepares an "I" Grade Authorization form which specifies the course work that must be made up as well as the time period within which the work must be completed. A copy of this form must be attached to the instructor's grade roster;
- An "I" grade shall be made up within 12 months from the end of semester the "I" grade was assigned unless the instructor sets a shorter time period.
- An "I" grade converts to a failure ("F") if it is not made up by the due date.
- The "I" (incomplete) must be completed/made up through the instructor who assigned the "I" grade; the instructor changes the grade with the Grade Change Form which must be submitted to the Admissions and Records Office.

Audit

A student who audits a course attends class but does not receive credit for the course. To audit a course, a student must register for the course, complete an audit form and submit the form to the Admissions and Records Office by the date listed in the academic calendar on page 2 or 75% point of short or late starting courses. Instructor's approval is required before a student may audit a class. The grade of "AU" will be recorded on the student's transcript for this course. Full tuition and fees are charged for course audits. The audit grade cannot be changed to a letter grade once grades have been posted to the student's transcript. In order to receive a letter grade in an audited course, a statement from the instructor and the student rescinding the audit grade option must be submitted to the Admissions and Records Office **by the 75% point of the course.**

Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before auditing a course.

Withdrawal

- A withdrawal is initiated by a student who wishes to drop a course. The effective date of withdrawal is the date the drop form is received by the Admissions and Records Office. Refunds, etc., are governed by regulations in effect on that date. In order to prevent a course from appearing on a student's transcript, he/she is required to drop the class during its refund period.
- Failing to attend class **DOES NOT** constitute withdrawal.
- To withdraw from a course lasting the full semester, the student must have a schedule change form on file in the Admissions and Records Office by the date listed in the academic calendar on page 2. The student can withdraw from short or late starting courses until the 75 % point of the course.

Withdrawal by Instructor

A Withdrawal by Instructor ("WI") grade is given at the option of the instructor at the end of the term when a student has stopped attending class and has failed to officially withdraw.

Medical Withdrawal

A student may be eligible to withdraw from college classes due to certain medical conditions (applies to student or immediate family member only).

In order to qualify for this benefit, a student must complete an official withdrawal form, accompanied by medical documentation, signed by a doctor and attesting to an inability to complete classes due to health problems. Submit these two items to the Admissions and Records Office with a completed medical withdrawal form. Forms are available in the Admissions and Records Office.

The documents will be reviewed, and if they are approved, all grades for the semester in question will be removed and replaced with a "W." "Medical Withdrawal" will be printed on the student's transcript across the semester in question.

Early Alert Program

Flathead Valley Community College is committed to student success and, therefore, has developed an Early Alert/Progress Monitoring program. The Early Alert Program is a college-wide collaborative effort designed to support student learning by identifying and warning students who may be experiencing academic and/or personal difficulties. Participating faculty are asked to identify students in their classes who may be in danger of failing as well as the reason for their concern. Alerts may be issued for excessive absences, tardiness, trouble with subject matter, late, incomplete or missing assignments, poor quiz results, missing exams, etc.

Alerts are issued via e-mail and the Student Portal. In addition, all alerted students receive a phone call. To ensure that students benefit from this valuable success tool, students should update their e-mail and phone numbers in the Student Portal each semester.

The goal of the Early Alert system is not to penalize students, but rather to address academic problems or difficulties early on in the semester so that a student can successfully complete the course. Students who have received an Early Alert notice are urged to speak with their instructor and/or Retention Coordinator to work out a constructive plan for the remainder of the semester. Early Alerts are not grades. There are no permanent records of alerts. They are a means for faculty to communicate to students that a change is necessary and to activate additional resources to help students succeed.

Can I refer myself to Early Alert?

At this time, referrals come through a faculty or staff member. However, if a student is concerned and could benefit from these services, he or she could talk to an advisor or instructor about the issues of concern. This person will be able to refer the student to the appropriate resource to help; there are many services available to help students and finding the right one is important.

Academic Requirements

Student's Responsibilities

The following regulations, procedures and definitions are important for all students taking classes for credit. Understanding and following these procedures is an essential part of acquiring a college degree or other credentials. Any questions should be directed to the Admissions and Records Office.

Students are responsible for following their curriculum, meeting graduation requirements and/or meeting transfer requirements. Assistance in planning acceptable programs is available from faculty advisors and FVCC counselors.

Application for Graduation

Official applications are due the **last week in February** to graduate at the end of spring, **last week in July** to graduate at the end of summer and **mid-November** to graduate at the end of fall semester. See the academic calendar on page 2 for specific dates and deadlines. Graduation information will be recorded on the student's transcript by the following month after the student has graduated**.** Applications for Graduation are available from the Admissions and Records Office in BH 111.

Students commonly graduate from FVCC under the catalog in use during the first year they attended FVCC. However, a student may graduate using any FVCC catalog under which they have attended, up to **five years** prior to graduation.

If a student initially enrolled more than **five years** before their graduation, they must select a catalog program in affect during the five-year period prior to their expected graduation.

Graduation Waivers and Substitutions

Given unusual circumstances, specific program requirements may be waived with the approval of the advisor, the instructor supervising the specific program and the Division Chair. This approval must be in writing, signed and dated. Program waivers are granted **only** when there is evidence of competency that will satisfy the program requirement.

General Education course requirements may be waived in extremely unusual situations. The waiver must be approved by a majority vote of the Curriculum Committee and by the student's advisor and the Division Chair.

Individuals with prior work experience may request an appropriate course substitution for a program requirement(s). The substitute course must be of equal or greater academic or technical content as that of the required course and must have the approval of the Division Chair and program director.

A single course may not be used to meet more than one group requirement, e.g., if FRCH 101GH is used to meet the humanities requirement, it cannot be used to meet the global issues requirement.

Academic Advising at FVCC

Why is Advising Important?

Advising is a critical ingredient in students' transition to and success in college. FVCC is committed to providing every student with meaningful academic advising. At FVCC, we employ a mixed advising model with full-time faculty advisors and Learning Center advisors.

All degree-seeking students (including transfer students) are required to meet with an academic advisor for course schedule approval each semester. Non-degree students taking courses with prerequisites need to meet with an advisor in the Learning Center. **Degree students are blocked from registration until they meet with their advisors.**

Students with a declared major are generally assigned to a faculty advisor most closely aligned to their field of study.

The role of the advisor:

- Assist students with defining and developing realistic educational and career plans.
- Make available pertinent and accurate information about FVCC programs and professional requirements.
- Approve designated educational transactions (e.g. registration, drop-adds, directed study, petitions, graduation applications, other forms).
- Assist students in the evaluation of progress toward established goals.
- Provide accurate information about resources.
- Assist students in identifying career opportunities.
- Refer students when attitudinal, educational or personal problems require intervention.
- Reinforce student responsibility for academic decisions and behaviors.
- Encourage program completion.

The role of the student:

- Spend time and effort to identify and clarify personal values, abilities, interests and goals.
- Communicate and share ideas in the academic planning process.
- Become knowledgeable about and adhere to institutional procedures, policies and requirements. This means reading, understanding and utilizing the catalog.
- Contact and make appointments with advisors when required or in need of assistance. The college catalog has phone numbers, email addresses and office locations. Office hours are posted outside faculty offices.
- Notify the advisor about changes in appointments, career or major plans or course schedules.
- Plan in advance for advising sessions: bring necessary materials such as transcripts, placement scores, FVCC catalog, proposed class schedule and questions.
- Follow through on actions identified in each academic advising session.
- Request a change in advisor, if necessary (change of major) by completing a change of major/advisor form at the Admissions and Records Office.
- Accept final responsibility for all decisions.
- Most courses assume proficiency in basic computer skills.

ASSOCIATE OF ARTS (AA) DEGREE

The Associate of Arts (AA) degree is a general transfer degree. This degree indicates that the student has completed a course of study equivalent to the first two years of a bachelor degree. This degree does not officially include a major or minor course of study.

With an Associate of Arts degree from FVCC, a student can transfer to any Montana University System school with junior class status and be guaranteed that the lower division general education core requirements have been completed for the transfer school.

To receive the AA degree, the following requirements must be met:

I. **Completion of 60 semester credits in courses numbered 100 level and above. A course cannot satisfy more than one general education core or graduation requirement.**
II. **Completion of the General Education Core Curriculum (30 credits)**
III. **Completion of Additional Degree Requirements: three semester credits of Fine Arts (F) and three semester credits of either Writing (W), Communications (C), Humanities (H), or Social Sciences (A or B).**
IV. **Final cumulative grade point average of 2.0 or above. A grade of "C-" or better is required for all courses other than electives unless otherwise stated.**
V. **At least 20 semester credits earned at FVCC and the final 10 credits earned at FVCC.**
VI. **A limit of 15 semester credits graded "S" may count toward the Associate degree. Check with transfer institution regarding the acceptance of "S" credits.**

GRADUATION CHECKLIST: Associate of Arts (AA) Degree

✔	General Education Core*	Minimum Credits	# of Courses	Courses Completed	Grade
	WRITING (W)	3	1 W		
	COMMUNICATIONS (C)	3	1 C		
	MATHEMATICS (M, Q)	3	1 M or Q		
	HUMANITIES (H)/FINE ARTS (F)	6	1 H **and** 1 H or 1 F		
	SOCIAL SCIENCES (A, B)	6	1 A **and** 1 B		
	NATURAL SCIENCE (NL, N)	6	1 NL **and** 1 NL or 1 N		
	GLOBAL ISSUES (G)	3	1 G		

✔	Additional Degree Requirements				
	FINE ARTS (F)	3	1 F		
	WRITING (W) or COMMUNICATIONS (C) or HUMANITIES (H) or SOCIAL SCIENCES (A, B)	3	3 credits from W, C, H, A or B courses		

✔	Recommended Electives	Approximately 20-24 credits	Grade
	Total	**60**	

*Refer to the General Education Core Curriculum (pgs. 44-46) for a list of courses meeting these requirements.

ASSOCIATE OF SCIENCE(AS) DEGREE

The Associate of Science (AS) degree is a general transfer degree. This degree indicates that the student has completed a course of study equivalent to the first two years of a bachelor degree. This degree does not officially include a major or minor course of study.

With an Associate of Science degree from FVCC, a student can transfer to any Montana University System school with junior class status and be guaranteed that the lower division general education core requirements have been completed for the transfer school.

To receive the AS degree, the following requirements must be met:

I. **Completion of 60 semester credits in courses numbered 100 level and above. A course cannot satisfy more than one general education core or graduation requirement.**
II. **Completion of the General Education Core Curriculum (30 credits).**
III. **Completion of Additional Degree Requirements: six semester credits of Mathematics (M) and/or Natural Science (NL or N or L). If the Mathematics (M,Q) Gen Ed Core Requirement was satisfied by a "Q" course, then three of the six credits must be a Mathematics (M) course.**
IV. **Final cumulative grade point average of 2.0 or above. A grade of "C-" or better is required for all courses other than electives unless otherwise stated.**
V. **At least 20 semester credits earned at FVCC and the final 10 credits earned at FVCC.**
VI. **A limit of 15 semester credits graded "S" may count toward the Associate degree. Check with transfer institution regarding the acceptance of "S" credits.**

GRADUATION CHECKLIST: Associate of Science (AS) Degree

✔	General Education Core*	Minimum Credits	# of Courses	Courses Completed	Grade
	WRITING (W)	3	1 W		
	COMMUNICATIONS (C)	3	1 C		
	MATHEMATICS (M, Q)	3	1 M or Q		
	HUMANITIES (H)/FINE ARTS (F)	6	1 H **and** 1 H or 1 F		
	SOCIAL SCIENCES (A, B)	6	1 A **and** 1 B		
	NATURAL SCIENCE (NL, N)	6	1 NL **and** 1 NL or 1N		
	GLOBAL ISSUES (G)	3	1 G		

✔ Additional Degree Requirements

	MATHEMATICS (M) or NATURAL SCIENCE (NL, N, L) If the Mathematics (M , Q) Gen Ed Core Requirement was satisfied by a "Q" course, then three of the six credits must be a Mathematics (M) course.	6	6 credits from M,NL, N, or L courses		

✔	Recommended Electives	Approximately 20-24 cedits	Grade

Total 60

*Refer to the General Education Core Curriculum (pgs. 44-46) for a list of courses meeting these requirements.

COMBINED ASSOCIATE OF ARTS (AA) AND ASSOCIATE OF SCIENCE (AS) DEGREE

To receive both transfer degrees (Associate of Arts and Associate of Science), the degree requirements for BOTH degrees must be met. An additional 15 credits are required as specified below.

To receive both the AA and AS degrees, the following requirements must be met:

I. Completion of 75 semester credit hours in courses numbered 100 level and above. A course cannot satisfy- more than one general education core or graduation requirement.
II. Completion of the General Education Core Curriculum (30 credits).
III. Completion of nine semester credits of Writing (W), Communications (C), Mathematics (M or Q), Humanities (H), Social Sciences (A or B), Natural Science (NL, N or L), and/or Global Issues (G).
IV. Completion of three semester credits of Fine Arts (F) and three semester credits of either Writing (W), Communications (C), Humanities (H), or Social Sciences (A or B).
V. Completion of six semester credits of Mathematics (M) and/or Natural Science (NL, N or L). If the Mathematics (M, Q) Gen Ed Core Requirement was satisfied by a "Q" course, then three of the six credits must be a Mathematics (M) course.
VI. Final cumulative grade point average of 2.0 or above. A grade of "C-" or better is required for courses other than electives unless otherwise stated.
VII. At least 20 semester credits earned at FVCC and the final 10 credits earned at FVCC.
VIII. A limit of 15 semester credits graded "S" may count toward the Associate degree. Check with transfer institution regarding the acceptance of "S" credits.

GRADUATION CHECKLIST: Associate of Arts (AA) and Associate of Science (AS) Degrees

✔	General Education Core*	Minimum Credits	# of Courses	Courses Completed	Grade
	WRITING (W)	3	1 W		
	COMMUNICATIONS (C)	3	1 C		
	MATHEMATICS (M, Q)	3	1 M or Q		
	HUMANITIES (H)/FINE ARTS (F)	6	1 H **and** 1 H or 1 F		
	SOCIAL SCIENCES (A, B)	6	1 A **and** 1 B		
	NATURAL SCIENCE (NL, N)	6	1 NL **and** 1 NL or 1 N		
	GLOBAL ISSUES (G)	3	1 G		

✔	Additional Degree Requirements				
	FINE ARTS (F)	3	1 F		
	WRITING (W) *or* COMMUNICATIONS (C) *or* HUMANITIES (H) *or* SOCIAL SCIENCES (A,B)	3	3 credits from W, C, H, A or B courses		
	MATHEMATICS (M) *or* NATURAL SCIENCE (NL, N, L) If the Mathematics (M , Q) Gen Ed Core Requirement was satisfied by a "Q" course, then three of the six credits must be a Mathematics (M) course.	6	6 credits from M, NL, N or L courses		
	WRITING (W) or COMMUNICATIONS (C) or MATHEMATICS (M,Q) or HUMANITIES (H) or SOCIAL SCIENCES (A, B) or NATURAL SCIENCE (NL, N or L) or GLOBAL ISSUES (G)	9	9 credits from W, C, M, Q, H, A, B, N, NL, L, or G courses		

✔	Recommended Electives	Approximately 20-24 credits	Grade

*Refer to the General Education Core Curriculum (pgs. 44-46) for a list of courses meeting these requirements.

Total 75

GENERAL EDUCATION CORE CURRICULUM

Montana University System General Education Core criteria, in addition to departmental review, were used as a guideline in determining the core requirements listed below. Please note in some cases an individual course may transfer to one school, but not another, as an individual general education core course.

An FVCC student having completed ALL the FVCC General Education Core requirements can transfer to any Montana University System school and be guaranteed the lower division general education core requirements of that school have been met.

WRITING (W) 3 credits
Writing courses focus on the writing process, rhetorical knowledge, conventions, critical thinking, reading, and research. Writing courses are foundational to success in college-level writing assignments.

Complete three (3) semester credits selected from the following:

_____	WRIT	101W*	College Writing I	3
_____	WRIT	201W*	College Writing II	3

COMMUNICATIONS (C) 3 credits
Communication courses will help students with the diverse applied writing and listening, speaking, and presenting opportunities they will encounter in their lives.

Complete three (3) semester credits selected from the following:

_____	CJLE	109C	Police Report Writing	3
_____	COMX	100C	Introduction to New Media Studies	3
_____	COMX	111C	Introduction to Public Speaking	3
_____	COMX	115C	Introduction to Interpersonal Communication	3
_____	COMX	150CF	Video Communication	3
_____	COMX	217CF	Oral Interpretation of Literature	3
_____	IDS	135C	Thinkering: How to Problem Solve	3
_____	JRNL	111C*	College Publications I	3
_____	JRNL	272C*	News Writing and Reporting	3
_____	THTR	122C	Acting for Non-Majors	3
_____	WRIT	121C*	Introduction to Technical Writing	3
_____	WRIT	122C*	Introduction to Business Writing	3

MATHEMATICS (M, Q) 3 credits
Mathematics courses focus on comprehension of elementary quantitative concepts, development of quantitative reasoning skills, and the ability to reasonably ascertain the implications of quantitative information.

Complete three (3) semester credits selected from the following:

_____	HONS	252HQ*	Honors: Humanities/Mathematics	4
_____	HONS	254AQ*	Honors: Social Sciences-A/Mathematics	4
_____	HONS	256NQ*	Honors: Science/Mathematics	4
_____	HONS	259QB*	Honors: Mathematics/Social Sciences-B	4
_____	HONS	263FQ*	Honors: Fine Arts/Mathematics	4
_____	HONS	265GQ*	Honors: Global Issues/Mathematics	4
_____	M	115M*	Probability and Linear Mathematics	3
_____	M	121M*	College Algebra	3
_____	M	135Q*	Mathematics for K-8 Teachers I	5
_____	M	136Q*	Mathematics for K-8 Teachers II	4
_____	M	145Q*	Mathematics for the Liberal Arts	3
_____	M	152M*	Precalculus Algebra	4
_____	M	153M*	Precalculus Trigonometry	3
_____	M	162M*	Applied Calculus	5
_____	M	171M*	Calculus I	5
_____	M	172M*	Calculus II	5
_____	M	221M*	Introduction to Linear Algebra	4
_____	M	225M*	Introduction to Discrete Mathematics	4
_____	M	273M*	Multivariable Calculus	5
_____	M	274M*	Introduction to Differential Equations	5
_____	STAT	216M*	Introduction to Statistics	4

HUMANITIES (H) / FINE ARTS (F) 6 credits
The Humanities reveal what it means to be human. Humanities courses explore societies, cultures, ideas and art, as well as examine the forces that shape and connect them.

Fine Arts courses explore how people reveal and express feelings, emotions and beliefs, as well as how different cultures value the arts. Through the Fine Arts, students explore the creative process as they study and construct expressions of their own creativity, talent, and passion.

Complete six (6) semester credits in Humanities/Fine Arts selected from the list below. Students may choose to take six (6) credits in Humanities or three (3) in Humanities and three (3) in Fine Arts.

HUMANITIES (H)

_____	ARTH	200FGH	Art of World Civilization I	3
_____	ARTH	201FGH	Art of World Civilization II	3
_____	ARTH	228FGH	History of Early Italian Renaissance	3
_____	ARTH	229FGH	History: Italian Renaissance II	3
_____	CHIN	101GH	Elementary Chinese I	5
_____	CHIN	102GH*	Elementary Chinese II	5
_____	FRCH	101GH	Elementary French I	5
_____	FRCH	102GH*	Elementary French II	5
_____	GRMN	101GH	Elementary German I	5
_____	GRMN	102GH*	Elementary German II	5
_____	HONS	251HA*	Honors: Humanities/Social Sciences-A	4
_____	HONS	252HQ*	Honors: Humanities/Mathematics	4
_____	HONS	253HN*	Honors: Humanities/Science	4
_____	HONS	257HB*	Honors: Humanities/Social Sciences-B	4
_____	HONS	264GH*	Honors: Global Issues/Humanities	4
_____	ITLN	101GH	Elementary Italian I	5
_____	ITLN	102GH*	Elementary Italian II	5
_____	ITLN	201GH*	Intermediate Italian I	4
_____	ITLN	202GH*	Intermediate Italian II	4
_____	LIT	110H	Introduction to Literature	3
_____	LIT	112H	Introduction to Fiction	3
_____	LIT	120H	Poetry	3
_____	LIT	206GH*	European Literature of the 20th Century	3
_____	LIT	210H	American Literature I	3
_____	LIT	211H	American Literature II	3
_____	LIT	213H	Montana Literature	3
_____	LIT	216H	American Short Story	3
_____	LIT	223H	British Literature I	3
_____	LIT	224H	British Literature II	3
_____	LIT	225H	Shakespeare: Tragedy and Comedy	3
_____	LIT	226H	Shakespeare: History and Tragedy	3

* Indicates a prerequisite and/or corequisite is needed. Check course description.

_____	LIT	240H	Bible as Literature	3
_____	LIT	285H	Mythologies	3
_____	LIT	286GH	Comparative Mythology	3
_____	LSH	261H	Introduction to the Humanities Origins and Influences I	4
_____	LSH	262H	Introduction to the Humanities Origins and Influences II	4
_____	PHL	101H	Introduction to Philosophy: Reason and Reality	3
_____	PHL	110H	Introduction to Ethics: Problems of Good and Evil	3
_____	PSCI	250HB	Introduction to Political Theory	3
_____	RUSS	101GH	Elementary Russian I	5
_____	RUSS	102GH*	Elementary Russian II	5
_____	SPNS	101GH	Elementary Spanish I	5
_____	SPNS	102GH*	Elementary Spanish II	5
_____	SPNS	201GH*	Intermediate Spanish I	4
_____	SPNS	202GH*	Intermediate Spanish II	4
_____	THTR	101FH	Introduction to Theatre	3
_____	THTR	235H	Dramatic Literature	3

FINE ARTS (F)

_____	ARTH	200FGH	Art of World Civilization I	3
_____	ARTH	201FGH	Art of World Civilization II	3
_____	ARTH	225FG*	Art and Architecture of Venice	3
_____	ARTH	227FG*	History of Theatre in Venice	3
_____	ARTH	228FGH	History of Early Italian Renaissance	3
_____	ARTH	229FGH	History: Italian Renaissance II	3
_____	ARTJ	210F	Jewelry and Metalsmithing I	3
_____	ARTJ	211F*	Jewelry and Metalsmithing II	3
_____	ARTJ	212F*	Jewelry and Metalsmithing III	3
_____	ARTZ	105F	Visual Language-Drawing	3
_____	ARTZ	106F	Visual Language 2-D Foundations	3
_____	ARTZ	108F*	Visual Language 3-D Foundations	3
_____	ARTZ	221F	Painting I	3
_____	ARTZ	224F	Watercolor I	3
_____	ARTZ	231F	Ceramics I	3
_____	COMX	150CF	Video Communication	3
_____	COMX	217CF	Oral Interpretation of Literature	3
_____	CRWR	110F*	Beginning Fiction	3
_____	CRWR	111F	Beginning Poetry	3
_____	FILM	111F*	Basic Videomaking	3
_____	HONS	260FA*	Honors: Fine Arts/Social Sciences-A	4
_____	HONS	261FB*	Honors: Fine Arts/Social Sciences-B	4
_____	HONS	262FN*	Honors: Fine Arts/Science	4
_____	HONS	263FQ*	Honors: Fine Arts/Mathematics	4
_____	HONS	268GF*	Honors: Global Issues/Fine Arts	4
_____	MUSI	101F	Enjoyment of Music	3
_____	MUSI	105F	Music Theory I	2
_____	MUSI	106F*	Music Theory II	2
_____	MUSI	130F	History of Jazz	3
_____	MUSI	132F	History of Rock and Roll	3
_____	MUSI	207FG	World Music	3
_____	PHOT	113F	Understanding Photography	3
_____	PHOT	116F*	Intermediate Black and White Photography	3
_____	PHOT	154F*	Exploring Digital Photography	3
_____	PHOT	213F*	Intermediate Photography	3
_____	PHOT	254F*	Intermediate Digital Photography	3
_____	PHOT	255F*	Introduction to Color Photography	3
_____	THTR	101FH	Introduction to Theatre	3
_____	THTR	102F	Introduction to Theatre Design	3
_____	THTR	120F	Introduction to Acting I	3
_____	THTR	121F*	Introduction to Acting II	3

SOCIALSCIENCES (A, B) 6 credits

Social Sciences courses explore people, movements, institutions, and forces which play a major role in human history and development.

Complete six (6) semester credits selected from the following. At least one (1) course must be selected from each of Group A and Group B.

Group A (one course):

_____	ANTY	101A	Anthropology and the Human Experience	3
_____	CJUS	121A	Introduction to Criminal Justice	3
_____	GPHY	121GA	Human Geography	3
_____	GPHY	141GA	Geography of World Regions	3
_____	HONS	251HA*	Honors: Humanities/Social Sciences-A	4
_____	HONS	254AQ*	Honors: Social Sciences-A/Mathematics	4
_____	HONS	255AN*	Honors: Social Sciences-A/Science	4
_____	HONS	260FA*	Honors: Fine Arts/Social Sciences-A	4
_____	HONS	266GA*	Honors: Global Issues/Social Sciences-A	4
_____	HS	100A*	Introduction to Human Services/ Social Work	3
_____	PSYX	100A	Introduction to Psychology	4
_____	PSYX	230A*	Developmental Psychology	3
_____	PSYX	240A*	Fundamentals of Abnormal Psychology	3
_____	PSYX	250NA*	Fundamentals of Biological Psychology	3
_____	PSYX	260A*	Fundamentals of Social Psychology	3
_____	SOCI	101A	Introduction to Sociology	3
_____	SOCI	220GA	Race, Gender, and Class	3

Group B (one course):

_____	ECNS	101B	Economic Way of Thinking	3
_____	ECNS	201B	Principles of Microeconomics	3
_____	ECNS	202GB	Principles of Macroeconomics	3
_____	HONS	257HB*	Honors: Humanities/Social Sciences-B	4
_____	HONS	258NB*	Honors: Science/Social Sciences-B	4
_____	HONS	259QB*	Honors: Mathematics/Social Sciences-B	4
_____	HONS	261FB*	Honors: Fine Arts/Social Sciences-B	4
_____	HONS	267GB*	Honors: Global Issues/Social Sciences-B	4
_____	HSTA	101B	American History I	4
_____	HSTA	102B	American History II	4
_____	HSTA	255B	Montana History	3
_____	HSTR	101B	Western Civilization I	4
_____	HSTR	102B	Western Civilization II	4
_____	PSCI	210B	Introduction to American Government	3
_____	PSCI	212B	Introduction to American Issues and Policy Making	3
_____	PSCI	250HB	Introduction to Political Theory	3

NATURAL SCIENCE (NL, N) 6 credits

Natural Science courses explore the principles that rule the physical universe by asking and answering questions about processes that can be observed and measured.

Complete two (2) or more courses selected from the following (at least one [1] course must be a conventional laboratory experience selected from Group NL):

Group NL (Laboratory Courses):

_____	BCH	280N* & 281L*	Biochemistry and Lab	5
_____	BIOB	101NL	Discover Biology	4
	or			
_____	BIOB	160NL	Principles of Living Systems	4
_____	BIOB	105NL*	Introduction to Biotechnology	3
_____	BIOB	110N & BIOB 111L*	Plant Science and Lab	4
_____	BIOB	170N* & 171L*	Principles of Biological Diversity and Lab	5

*Indicates a prerequisite and/or corequisite is needed. Check course description.

_____	BIOB	256NL*	Intro Biol: Cells to Organisms	4
_____	BIOB	258NL*	Intro Biol: Organism to Populations	4
_____	BIOB	260NL*	Cellular and Molecular Biology	5
_____	BIOE	172N* & 173L*	Introductory Ecology and Lab	4
_____	BIOH	104N & 105L*	Basic Human Biology and Lab	4
_____	BIOH	201NL*	Human Anatomy and Physiology I	4
_____	BIOH	211NL*	Human Anatomy and Physiology II	4
_____	BIOM	250NL*	Microbiology for Health Sciences	4
_____	BIOM	260N* & 261L*	General Microbiology and Lab	5
_____	BIOO	105NL	Introduction to Botany	3
	or			
_____	BIOO	235NL	Rocky Mountain Flora	3
_____	BIOO	262NL*	Introduction to Entomology	3
_____	CHMY	105NL*	Explorations in Chemistry	4
_____	CHMY	121NL*	Introduction to General Chemistry	4
_____	CHMY	123NL*	Introduction to Organic and Biochemistry	4
_____	CHMY	141NL*	College Chemistry I	5
_____	CHMY	143NL*	College Chemistry II	5
_____	CHMY	221NL*	Organic Chemistry I	5
_____	CHMY	223NL*	Organic Chemistry II	5
_____	CHMY	280NL*	Forensic Science I	4
_____	CHMY	282NL*	Forensic Science II	4
_____	ENSC	105NL	Environmental Science	4
_____	ENSC	245NL	Soils	4
_____	GEO	100NL	Introduction to Earth Science	4
_____	GEO	101NL	Introduction to Physical Geology	4
_____	GPHY	111NL	Introduction to Physical Geography	4
_____	NSCI	102NL*	The Nature of Science	4
_____	NSCI	103NL*	Basic Physical Science	4
_____	PHSX	205NL*	College Physics I	5
_____	PHSX	207NL*	College Physics II	5
_____	PHSX	210NL*	General Physics I	6
_____	PHSX	212NL*	General Physics II	6

Group N (Non-Conventional Lab):

_____	AHXR	108N*	Introduction to Radiologic Physics	3
_____	ASTR	110N	Introduction to Astronomy	3
_____	BCH	280N*	Biochemistry	3
_____	BIOB	110N	Plant Science	3
_____	BIOB	170N*	Principles of Biological Diversity	3
_____	BIOB	272N*	Genetics and Evolution	4
_____	BIOB	275N*	General Genetics	4
_____	BIOE	172N*	Introductory Ecology	3
_____	BIOH	104N	Basic Human Biology	3
_____	BIOM	260N*	General Microbiology	3
_____	BIOO	115N	Practical Botany	3
_____	BIOO	215N	Field Botany	3
_____	GEO	130N	Geology of Northwest Montana	3
_____	HONS	253HN*	Honors: Humanities/Science	4
_____	HONS	255AN*	Honors: Social Sciences-A/Science	4
_____	HONS	256NQ*	Honors: Science/Mathematics	4
_____	HONS	258NB*	Honors: Science/Social Sciences-B	4
_____	HONS	262FN*	Honors: Fine Arts/Science	4
_____	HONS	269GN*	Honors: Global Issues/Science	4
_____	NRSG	258N*	Principles of Pathophysiology	4
_____	NRSM	271GN	Conservation Ecology	3
_____	NUTR	221N	Basic Human Nutrition	3
_____	PSYX	250NA*	Fundamentals of Biological Psychology	3
_____	WILD	270N	Wildlife Habitat and Conservation	3

GLOBAL ISSUES (G) 3 credits

Global Issues courses explore differences in race, ethnicity, gender, sexual orientation, class, disability status, language, national origin, and/or religion within and across peoples and nations.

Complete three (3) semester credits selected from the following:

_____	ANTY	220G	Culture and Society	3
_____	ARTH	200FGH	Art of World Civilization I	3
_____	ARTH	201FGH	Art of World Civilization II	3
_____	ARTH	225FG*	Art and Architecture of Venice	3
_____	ARTH	227FG*	History of Theatre in Venice	3
_____	ARTH	228FGH	History of Early Italian Renaissance	3
_____	ARTH	229FGH	History: Italian Renaissance II	3
_____	CHIN	101GH	Elementary Chinese I	5
_____	CHIN	102GH*	Elementary Chinese II	5
_____	ECNS	202GB	Principles of Macroeconomics	3
_____	FRCH	101GH	Elementary French I	5
_____	FRCH	102GH*	Elementary French II	5
_____	GPHY	121GA	Human Geography	3
_____	GPHY	141GA	Geography of World Regions	3
_____	GPHY	246G	Geography of North America	3
_____	GRMN	101GH	Elementary German I	5
_____	GRMN	102GH*	Elementary German II	5
_____	HONS	264GH*	Honors: Global Issues/Humanities	4
_____	HONS	265GQ*	Honors: Global Issues/Mathematics	4
_____	HONS	266GA*	Honors: Global Issues/Social Sciences-A	4
_____	HONS	267GB*	Honors: Global Issues/Social Sciences-B	4
_____	HONS	268GF*	Honors: Global Issues/Fine Arts	4
_____	HONS	269GN*	Honors: Global Issues/Science	4
_____	HSTR	284G	Environmental History	3
_____	ITLN	101GH	Elementary Italian I	5
_____	ITLN	102GH*	Elementary Italian II	5
_____	ITLN	201GH*	Intermediate Italian I	4
_____	ITLN	202GH*	Intermediate Italian II	4
_____	LIT	206GH*	European Literature of the 20th Century	3
_____	LIT	286GH	Comparative Mythology	3
_____	MUSI	207FG	World Music	3
_____	NASX	105G*	Introduction to Native American Studies	3
_____	NASX	232G	Montana Indians: Cultures, Histories, Current Issues	3
_____	NRSM	271GN	Conservation Ecology	3
_____	RLST	100G	Introduction to the Study of Religion	3
_____	RLST	220G	Interpretations of American Religion	3
_____	RUSS	101GH	Elementary Russian I	5
_____	RUSS	102GH*	Elementary Russian II	5
_____	SIGN	101G	Introduction to American Sign Language	3
_____	SIGN	201G*	Intermediate American Sign Language	3
_____	SIGN	243G*	Advanced American Sign Language	3
_____	SOCI	220GA	Race, Gender, and Class	3
_____	SPNS	101GH	Elementary Spanish I	5
_____	SPNS	102GH*	Elementary Spanish II	5
_____	SPNS	201GH*	Intermediate Spanish I	4
_____	SPNS	202GH*	Intermediate Spanish II	4

*Indicates a prerequisite and/or corequisite is needed. Check course description.

FVCC CRITERIA FOR GENERAL EDUCATION COURSES

Writing

Writing courses focus on the writing process, rhetorical knowledge, conventions, critical thinking, reading, and research. Writing courses are foundational to success in college-level writing assignments. These courses will provide instruction and practice in the following:

- multiple, flexible strategies for the writing process;
- writing as a means to engage in critical inquiry ;
- conventions of language and forms of discourse;
- research as a process ;
- formulating and supporting assertions with appropriate evidence ;
- how to use appropriate documentation; and
- use of a variety of technologies to facilitate academic research.

Communications

Communication courses will help students with the diverse applied writing and listening, speaking, and presenting opportunities they will encounter in their lives. These courses will provide instruction and practice in four or more of the following:

- speaking with clarity, accuracy, and fluency in a variety of contexts;
- use of the conventions of language and forms of discourse;
- research as a process;
- listening actively in a variety of situations;
- adapting content and mode of presentation to fit a given audience and medium;
- conventions for the discipline including format and media presentation; and
- practical writing skills in the workplace.

Mathematics

Mathematics courses focus on comprehension of elementary quantitative concepts, development of quantitative reasoning skills, and the ability to reasonably ascertain the implications of quantitative information. These courses will provide instruction and practice in the following:

- methods employed in the mathematical sciences;
- application of mathematical or statistical models to complex problems;
- quantitatively-based problems of importance to contemporary society; and
- practical applications for consumers of quantitative information.

Humanities

The humanities reveal what it means to be human. Humanities courses explore societies, cultures, ideas, and art as well as examine the forces that shape and connect them. These courses will provide instruction and practice in the following:

- critical analysis of how others perceive and express the human condition;
- the human search for meaning and value in one or more time period(s) and cultures;
- understanding how others make and express meaning in their lives;
- respectful inquiry to understand global concepts, values, and beliefs; and
- personal reflection and values identification.

Social Sciences

Social Sciences courses explore people, movements, institutions, and forces which play a major role in human history and development. These courses will provide instruction and practice in two or more of the following:

Social Sciences A course criteria

- diversity of purpose, focus, and methodology among social sciences;
- the role and impact of major social institutions on the daily existence of individuals, and on social and cultural groups;
- analysis of human behavior, ideas, and social institutions for historical and cultural meaning and significance; and
- historical construction of differences and similarities among peoples within and across groups, regions, and nations.

Social Sciences B course criteria

- nature, structure, and historical development of human organization and the extent to which individuals (in contrast to physical or social forces) are able to influence events;
- historical, economic, and/or political analysis of interrelations among humans;
- analysis of interactions between humans and their environments, on local, national, and international scales;
- uses and limitations of historical, economic, and/or political comparison as an analytical tool; and
- distinctions between primary and secondary sources.

Natural Science

Natural Science courses explore the principles that rule the physical universe by asking and answering questions about processes that can be observed and measured. These courses will provide instruction and/or practice in the following:

- the experimental basis of science and how scientists accumulate new knowledge;
- methods scientists use to gather, validate, and interpret data within the broad area of the specific discipline being studied;
- scientific facts and how those facts help us understand our observations and the laws that govern the natural world;
- goals and limitations of science; and
- the role of science in the development of modern technological civilization.

Global Issues

Global Issues courses explore differences in race, ethnicity, gender, sexual orientation, class, disability status, language, national origin, and/or religion within and across peoples and nations. These courses will provide instruction and practice in the following:

- impact of historical events, geography, institutionalized differences in power, and long-standing customs on cultural diversity;
- discrimination within and across specific institutions and groups and the attitudes that create barriers for some and opportunities for others; and
- effect of cultural diversity on the ways in which individuals and peoples perceive, understand, and live in the world.

Fine Arts

Fine Arts courses explore how people reveal and express feelings, emotions and beliefs, as well as how different cultures value the arts. Through the Fine Arts, students explore the creative process as they study and construct expressions of their own creativity, talent, and passion. These courses will provide instruction and practice in three or more the following:

- examination of aesthetic expressions from a historical/cultural perspective;
- personal responses to various aesthetic expressions;
- expressions of creativity and talent;
- influence of the arts on individuals and society; and
- the place of arts in cultural and intellectual history.

Montana University System Board Policy:

I. Policy:

A. The Montana University System is committed to facilitating the ease of undergraduate student transfer to its campuses, particularly in the area of general education. Therefore, all campuses of the Montana University System will recognize the integrity of general education programs and courses offered by units of the Montana University System, Montana's three publicly supported community colleges, the seven tribal colleges and regionally accredited independent colleges in the State of Montana. All campuses in the Montana University System shall also recognize the integrity and transferability of the Montana University System Transferable Core. **http://mus.edu/borpol/default.asp.**

II. Procedures:

A. Campus General Education Programs.

An undergraduate student who has completed the lower division coursework in an approved general education program at one of the institutions noted above, and who transfers to another of those institutions, cannot be required to take additional general education coursework at the lower division level. The student may be required to take additional coursework at the upper division level that is part of an approved general education program at the new campus. The approved general education program at each of the campuses can be found at this link:

http://mus.edu/transfer/genedbycampus.asp.

B. The Montana University System Transferable Core.

An undergraduate student who has completed courses identified as part of the Montana University System Transferable Core, hereafter referred to as the MUS Core, will be governed by the following rules:

1. If the student has completed the entire 30 credit MUS Core, following the operating rules approved by the Montana Board of Regents, and transfers to another unit in the Montana University System, that student cannot be required to take additional general education courses at the lower division level.

2. If that student has completed fewer than 20 MUS Core credits, that student will be required to complete the approved general education program at the campus to which he/she transfers. All general education transfer credits that are part of the MUS Core will be reviewed for possible application in the approved general education program at the campus.

3. If that student has completed 20 or more MUS Core credits, that student may choose to complete either the MUS Core or the approved general education program at the campus to which he/she transfers. The student should make that decision in consultation with a faculty advisor.

4. The student may be required to take additional coursework at the upper division level that is part of an approved general education program at the new campus.

Montana University System Core

In order to satisfy the MUS core, students must successfully complete at least one course that includes significant content related to the cultural heritage of American Indians. These courses are designated on the MUS Core course lists available at http://mus.edu/transfer/MUScorebyCampus.asp.

Natural Science At least one of the classes must have a laboratory experience	6 semester credits
Social Sciences/History	6 semester credits
Mathematics	3 semester credits
Communication Written communication and oral communication	6 semester credits
Humanities/Fine Arts	6 semester credits
Cultural Diversity	3 semester credits
TOTAL CREDITS	**30 semester credits**

Transfer Curricula

Introduction

FVCC has developed the following curricula to assist students in planning a two-year course of study. These programs emphasize particular academic or occupational areas and are recommended to students planning careers and/or further college work in those areas. Where FVCC has a formal transfer agreement with another institution, the curriculum is designated "Transfer to _____." The selection of programs is not limited to those listed. Students seeking emphasis in other academic areas are invited to see a counselor or academic advisor to explore other options.

Programs of study are suggested only and are kept current with the lower division requirements at the four-year institution. Sometimes the four-year school makes subsequent changes after this catalog is printed, so it is advisable to go over the curriculum in the catalog of the four-year school a year prior to transferring to ensure all transferable courses can be taken at FVCC as some may be offered once a year.

All programs can be modified to meet individual needs and to fulfill specific degree requirements. These modifications should be made with the assistance of the student's faculty advisor. Students planning to transfer to another institution should refer to the transfer procedure described in the Student Services section of the catalog.

For specific degree and core curriculum requirements, consult the "Academic Requirements" section.

The following pages have been developed in a worksheet style to assist students in meeting graduation requirements. General Education courses can be taken in either year unless they have a prerequisite. Mark off each course as it is completed. Indicate the name and number of courses selected as electives.

Agriculture
Transfer Curricula

The Agriculture transfer program at FVCC offers a range of freshman and sophomore level classes to prepare students transferring to one of three Bachelor of Science programs offered within the College of Agriculture at **Montana State University – Bozeman.**

The Bachelor of Science in Agricultural Business prepares students for careers that apply business and economic principles to farming and ranching. Currently, **Montana State University – Bozeman** offers two different concentrations within this degree program, Agribusiness Management and Farm and Ranch Management. The recommended course of study specified below is suggested for both concentrations.

Associate of Science Degree

Suggested course of study for transfer to **Montana State University - Bozeman** in Agricultural Business:

First Year

✔	Course	#	Title	Credits
___	ANSC	100	Introduction to Animal Science	3
___	BIOB	110N	Plant Science	3
___	CHMY	121NL*	Introduction to General Chemistry	4
___	COMX	111C	Introduction to Public Speaking	3
___	ECNS	101B	Economic Way of Thinking	3
___	ECNS	202GB	Principles of Macroeconomics	3
___	M	115M*	Probability and Linear Mathematics	3
___	M	162M*	Applied Calculus	
	or			
___	M	171M*	Calculus I	5
___	WRIT	101W*	College Writing I	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	ACTG	202*	Principles of Managerial Accounting	4
___	ENSC	245NL	Soils	4
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	201W*	College Writing II	3
___	_____	____	Electives	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			Second Year Total	**31**

Total Credits **62**

*Indicates prerequisite and/or corequisite needed.
Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

The Bachelor of Science in Plant Science prepares students for careers in agriculture, biotechnology, and recreational land management. **Montana State University – Bozeman** offers two options within this degree program, Crop Science and Plant Biology. The course of study specified below is suggested for the Crop Science option only.

Associate of Science Degree

Suggested course of study for a transfer to **Montana State University - Bozeman** in Plant Science (Crop Science option):

First Year

✔	Course	#	Title	Credits
___	BIOB	110N	Plant Science	3
___	BIOB	160NL	Principles of Living Systems	4
___	BIOB	170N*	Principles of Biological Diversity	3
	and			
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	CHMY	121NL*	Introduction to General Chemistry	4
___	CHMY	123NL*	Introduction to Organic and Biochemistry	4
___	M	115M*	Probability and Linear Mathematics	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			First Year Total	**32**

Second Year

✔	Course	#	Title	Credits
___	BIOB	275N*	General Genetics	4
___	BIOO	262NL*	Introduction to Entomology	3
___	ECNS	101B	Economic Way of Thinking	3
___	ENSC	245NL	Soils	4
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	201W*	College Writing II	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			Second Year Total	**30**

Total Credits **62**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

The Bachelor of Science in Sustainable Food and Bioenergy Systems is an interdisciplinary program designed for students interested in the processes of crop production, processing, distribution, and utilization of food and bioenergy. **Montana State University – Bozeman** offers four program options within this degree program: Sustainable Food Systems, Agroecology, Sustainable Crop Production, and Sustainable Livestock Production. Students completing this degree program are prepared for careers in an array of related disciplines, including agriculture business, public health and community food security, food and bioenergy production, marketing, distribution and local food systems. The course of study specified below is suggested for all four options, with footnotes recommending coursework specific to each option.

As programs change and evolve, it is important to consult with an advisor to keep abreast of changes and to register for classes in the proper order.

Associate of Science Degree

Suggested course of study for a transfer to **Montana State University - Bozeman** in Sustainable Food and Bioenergy Systems (Sustainable Food Systems, Agroecology, Sustainable Crop Production, or Sustainable Livestock Production option):

First Year

✔	Course	#	Title	Credits
___	BIOB	110N	Introduction to Plant Science	3
___	BIOB	160NL	Principles of Living Systems	4
___	BIOB	170N*	Principles of Biological Diversity[1]	3
	and			
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	CHMY	121NL*	Introduction to General Chemistry[2]	4
	or			
___	CHMY	141NL*	College Chemistry I[3]	5
___	ENSC	105NL	Environmental Science	4
___	M	115M*	Probability and Linear Mathematics	3
___	SFBS	146	Introduction to Sustainable Food and Bioenergy Systems	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Electives[4]	3-5
			First Year Total	**32-35**

Second Year

✔	Course	#	Title	Credits
___	ANSC	222*	Livestock in Sustainable Systems	3
___	ECNS	101B	Economic Way of Thinking	3
___	ENSC	245NL	Soils	4
___	NASX	232G	Montana Indians: Cultures, Histories, Current Issues	3
___	NUTR	221N	Basic Human Nutrition	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Communications (C) Requirement[5]	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (A) Requirement[6]	3
___	_____	____	Electives[7]	0-4
			Second Year Total	**32-36**
			Total Credits	**64-71**

[1] Not required for Sustainable Livestock Production option; take ANSC 100 and NRSM 101 instead.
[2] Not required for Agroecology option; take CHMY 141NL* instead.
[3] Not required for Sustainable Livestock Production option; take CHMY 121NL* instead.
[4] Students choosing to pursue the Agroecology option should take CHMY 143NL*.
[5] Students choosing to pursue the Sustainable Livestock Production option should take COMX 111C.
[6] Students pursuing Sustainable Food Systems option should take SOCI 101A.
[7] Students choosing to pursue the Agroecology or Sustainable Livestock Production option should take CHMY 123NL*.

*Indicates prerequisite and/or corequisite needed. Check course description.

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Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Art
Transfer Curricula

The School of Fine Arts at **The University of Montana - Missoula** and the School of Art at **Montana State University - Bozeman** provide students with intensive professional training for students interested in careers in the field of art. Admission into the Bachelor of Fine Arts program is competitive at both schools and successful completion of lower division art classes is only a first step. Students will need to submit an extensive portfolio and adhere to specific application deadlines. **The University of Montana - Missoula** offers a BA and BFA in Sculpture, Ceramics, Printmaking, Photography, Painting and Drawing and a degree in Art Education K-12. **Montana State University - Bozeman** offers a BFA in Studio Arts and Graphic Design and a BA in Art History, Art Education K-12, Liberal Arts Studio and a Photography option in the Film and Photography department.

Associate of Arts Degree

Suggested course of study for a transfer to **The University of Montana - Missoula** in **Fine Arts:**

First Year

✔	Course	#	Title	Credits
___	ARTH	200FGH	Art of World Civilization I	3
___	ARTZ	105F	Visual Language-Drawing	3
___	ARTZ	106F	Visual Language 2-D Foundations	3
___	ARTZ	231F	Ceramics I	3
___	PHOT	113F	Understanding Photography	3
___	PHOT	116F*	Intermediate Black and White Photography	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	ARTH	201FGH	Art of World Civilization II	3
___	ARTZ	108F*	Visual Language 3-D Foundations	3
___	ARTZ	211*	Drawing I	3
___	ARTZ	221F	Painting I	3
___	ARTZ	222*	Painting Studio: Composition	3
___	ARTZ	271*	Printmaking I	3
___	_____	____	Communications (C), Humanities (H), or Social Sciences (A or B) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**30**
			Total Credits	**60**[1]

[1] As time and interest allows students can take ***studio level*** art classes which are the next step up from entry level art classes (i.e. Painting I, Ceramics I, etc). Although these credits do not transfer directly as level II classes at the university, these advanced classes are designed for the development of more specific skills, and allows the student to develop a portfolio which can be used to petition for credit at the university level.

Associate of Arts Degree

Suggested course of study for a transfer to **Montana State University - Bozeman** in **Fine Arts**:

First Year

✔	Course	#	Title	Credits
___	ARTH	200FGH	Art of World Civilization I	3
___	ARTZ	105F	Visual Language-Drawing	3
___	ARTZ	106F	Visual Language 2-D Foundations	3
___	ARTZ	231F	Ceramics I[1,2]	3
___	COMX	111C	Introduction to Public Speaking	3
___	PHOT	113F	Understanding Photography	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Global Issues (G) or Humanities (H) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	ARTH	201FGH	Art of World Civilization II	3
___	ARTJ	210F	Jewelry and Metalsmithing I[1,2]	3
___	ARTJ	211F*	Jewelry and Metalsmithing II[1,2]	3
___	ARTZ	108F*	Visual Language 3-D Foundations	3
___	ARTZ	211*	Drawing I[1,2]	3
___	ARTZ	221F	Painting I[1,2]	3
___	_____	____	Communications (C), Humanities (H), or Social Sciences (A or B) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**30**
			Total Credits	**60**

[1]Students who wish to pursue the Photography option should take the following courses instead.

___	PHOT	116F*	Intermediate Black and White Photography	3
___	PHOT	213F*	Intermediate Photography	3
___	PHOT	255F*	Introduction to Color Photography	3

[2] Graphic Design students only need one of the studio arts classes and can take other electives.

*Indicates prerequisite and/or corequisite needed. Check course description.

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Aviation
Transfer Curricula

The Aviation transfer program at FVCC provides a broad range of freshman and sophomore level classes designed to provide students with the first two years of a four-year baccalaureate degree program to prepare them for transfer to aeronautical science and aviation-related programs at four-year colleges and universities. The aviation transfer program provides a firm foundation in the liberal arts, together with flight training if a flying career is planned. It is designed specifically for transfer to the aviation program of Rocky Mountain College in Billings, Montana, the mission of which is to educate and train individuals to be professionals and leaders in the aviation industry. Rocky Mountain College offers Bachelor of Science degrees in Aeronautical Science (Professional Pilot), as well as in Aviation Management. Graduates of the Rocky Mountain Aviation program are prepared to begin careers as pilots or managers in the airline, business, air cargo, military, or other sectors of the aviation industry. Completion of the general education core and appropriate aviation course requirements at FVCC for a two-year Associate of Science degree will permit the student to transfer to the Rocky Mountain Aviation program as a third-year student (junior). Since programs, courses, and degree requirements evolve with time, it is important that students interested in the Aviation transfer program consult with an FVCC academic advisor before beginning the program in order to keep abreast of program changes, as well as to register for classes in the proper order and at the proper time. All AVFT courses meet at Red Eagle Aviation in Kalispell. Students are encouraged to contact Red Eagle Aviation prior to enrolling in AVFT courses.

Associate of Science Degree

Suggested course of study for a transfer to **Rocky Mountain College - Billings**
(this curriculum has some requirements specific to RMC's requirements as explained by the numbered notations)**:**

First Year

✔	Course	#	Title	Credits
___	AVFT	131	Private Pilot Ground School[1]	3
___	AVFT	132*	Private Pilot Flight Training (Fixed Wing)	
	or			
___	AVFT	133*	Private Pilot Flight Training (Rotary Wing)[1]	3
___	COMX	111C	Introduction to Public Speaking	3
___	M	152M*	Precalculus Algebra	4
___	M	162M*	Applied Calculus	5
___	PSCI	210B	Introduction to American Government	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Health and Wellness Elective	1
___	_____	____	Humanities (H) Requirement[3]	3
			First Year Total	**32**

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Second Year

✔	Course	#	Title	Credits
___	COMX	115C	Introduction to Interpersonal Communication	3
___	PHSX	205NL*	College Physics I	5
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	201W*	College Writing II	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement[3]	3
___	_____	____	Natural Science (NL or N) Requirement[4]	3
___	_____	____	Pilot Course[2]	6
___	_____	____	RLST 100G or RLST 220G	3
			Second Year Total	**30**
			Total Credits	**62**

*Indicates prerequisite and/or corequisite needed. Check course description.

Additional Costs:
- All AVFT courses have fees which range from $630 to $30,000.
- Students applying for financial aid should do so by March 1st for the following academic year to ensure funding options are available prior to registering for courses.
- Federal financial aid can be insufficient to cover the high cost of fees associated with this program and alternative funding may be required. Please visit with the Financial Aid Office directly for more details.
- VA students should visit with the VA certifying officials in the Financial Aid Office for any questions pertaining to funding eligibility.

Notes:
General: Rocky Mountain College has a 3 semester-hour Economic Decision-making general education requirement, and a 3 semester-hour Experiential Learning general education requirement that students should discuss with their academic advisor when enrolling in FVCC's Aviation transfer program. Some or all of these requirements may be met by a student's choice of major, course work or internships.

[1]For students pursuing a professional pilot career. Meets at Red Eagle Aviation in Kalispell. Total flight time for airplane is 250 hours. Total flight time for helicopter is 150 hours. Students pursuing an Aviation Management career should elect appropriate courses from the Management curriculum.

[2] Students should consult their advisor regarding their specific area of interest.

[3] One Humanities course should be a Literature course and the other an Art History course.

[4] To also work for RMC, this course should be either in Biology, Geology or Chemistry.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Biology
Transfer Curricula

Biologists are employed in a wide variety of fields including: research, teaching, industry, governmental agencies, consulting firms in environmental work, health, and wildlife. Some positions are open to holders of the bachelor's degree, but most opportunities exist at the master's and doctoral levels of preparation. Most biologists need a broad background in the natural sciences, mathematics, and communication skills.

Students may prepare themselves for transfer for nearly any biology-related bachelor's degree, and they should be aware of the options in Montana. The biology department at **The University of Montana - Missoula** offers the following options: Biology Education (see Education section in this catalog), Cellular and Molecular Biology, Ecology and Organismal Biology, Field Ecology, Ecology for Teacher Preparation in General Science (see Education section in this catalog), Human Biological Sciences, and Natural History. The Ecology and Organismal Biology and the Human Biological Sciences curriculums each have options of one or two years of Chemistry.

The biology department at **Montana State University - Bozeman** offers: Ecology and Evolution, Biomedical Sciences, Biology Teaching (see Education section in this catalog), and Fish and Wildlife Management (See Wildlife Biology section in this catalog.) The intent of this program is to generally prepare students for biology-related programs for Montana universities, including **The University of Montana - Missoula, Montana Tech of The University of Montana** and **Montana State University - Bozeman,** and most other four-year institutions.

Students should choose from among the recommended courses with the close assistance of their advisor. Those with inadequate preparation to begin these courses can expect more than two years to ready themselves for transfer to the junior level. Close attention should be paid to specific program requirements at your desired four-year college or university.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	GEO	101NL	Introduction to Physical Geology[4]	4
	or			
___	PHSX	205NL*	College Physics I[3]	5
___	M	162M*	Applied Calculus[4]	5
___	WRIT	101W*	College Writing I	3
___	_____	____	CHMY 121NL*[1] & CHMY 123NL*[1] or CHMY 141NL*[2] & CHMY 143NL*[2]	8-10
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**32-35**

Second Year

✔	Course	#	Title	Credits
___	BIOB	260NL*	Cellular and Molecular Biology	5
___	BIOB	272N*	Genetics and Evolution	4
___	BIOO	235NL	Rocky Mountain Flora[1]	3
	or			
___	STAT	216M*	Introduction to Statistics	4
___	PHSX	207NL*	College Physics II[6]	5
___	PSYX	100A	Introduction to Psychology[5]	
	or			
___	_____	____	Social Sciences (A) Requirement	3-4
___	_____	____	Communications (C) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**32-34**
			Total Credits	**64-69[7]**

[1] If pursuing the Natural History option.
[2] If pursuing the Human Biological Sciences, Field Ecology or the Ecology and Organismal Biology option students should take either CHMY 121NL* and CHMY 123NL* or CHMY 141NL* and CHMY 143NL*, CHMY 221NL* and CHMY 223NL*. If pursing the Cellular or Molecular Biology or Microbiology options, take CHMY 141NL* and CHMY 143NL*, CHMY 221NL* and CHMY 223NL*.
[3] For all options other than Natural History, students can take either PHSX 205NL* and PHSX 207NL* or PHSX 210NL* and PHSX 212NL* if they desire to take the Calculus I and II series rather than M 162M*.
[4] If pursuing the Natural History option, student should take M 121M* instead of M 162M* and take GEO 101NL instead of Physics.
[5] Required for Human Biological Sciences option as the SSA requirement.
[6] If doing the Physics sequence rather than the GEO 101NL course choice.
[7] If time permits, students pursuing the Human Biological Sciences option may consider taking the following courses:

___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	BIOH	211NL*	Human Anatomy and Physiology II	4

*Indicates prerequisite and/or corequisite needed.
Check course description.

Associate of Science Degree

Suggested course of study for a transfer to **Montana State University - Bozeman**:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	WRIT	101W*	College Writing I	3
___	_____	____	CHMY 121NL* & CHMY 123NL* or CHMY 141NL*[1] & CHMY 143NL*[1]	8-10
___	_____	____	M 162M* or M 171M*[2]	5
___	_____	____	PHSX 205NL*[3] or PHSX 210NL*[3]	5-6
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**33-36**

Second Year

✔	Course	#	Title	Credits
___	BIOB	260NL*	Cellular and Molecular Biology	5
___	BIOB	275N*	General Genetics	4
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	COMX 111C or WRIT 121C*[4]	3
___	_____	____	PHSX 207NL*[3] or PHSX 212NL*[3]	5-6
___	_____	____	Elective[5,6] or M 172M*[2]	3-5
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**36-39**
			Total Credits	**69-75[7]**

[1] If pursuing the Ecology and Evolution option, students may select either chemistry sequence. If pursuing the Organismal Biology or Biomedical Science or Cell Biology and Neuroscience option, students should take CHMY 141NL* and CHMY 143NL*.

[2] If pursuing the Cell Biology and Neuroscience option, students should take M 171M* and M 172M*.

[3] If pursuing the Ecology and Evolution option, students may select either physics sequence. If pursuing the Organismal Biology, Biomedical Sciences, or Cell Biology and Neuroscience option, students should take PHSX 205NL* and PHSX 207NL*.

[4] For the Biomedical Sciences option take WRIT 121C*.

[5] If time permits, students may consider taking the following courses if pursuing the Biomedical Sciences option:

___ BCH	280N*	Biochemistry	3
___ BCH	281L*	Biochemistry Lab	2
___ BIOH	201NL*	Human Anatomy and Physiology I	4
___ CHMY	221NL*	Organic Chemistry I	5
___ CHMY	223NL*	Organic Chemistry II	5

[6] For the Ecology and Evolution option additional requirements that could be completed if time and course load allow:

___ BCH	280N*	Biochemistry	3
___ BCH	281L*	Biochemistry Lab	2
___ WRIT	201W*	College Writing II	3

[7] If time permits, students may consider taking the following courses if pursuing the Cell Biology and Neuroscience option:

___ BCH	280N*	Biochemistry	3
___ BCH	281L*	Biochemistry Lab	2
___ CHMY	221NL*	Organic Chemistry I	5
___ CHMY	223NL*	Organic Chemistry II	5

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Associate of Science Degree

Suggested course of study for a transfer to **Montana Tech of The University of Montana**:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	BIOE	172N*	Introductory Ecology	3
___	BIOE	173L*	Introductory Ecology Laboratory	1
___	CHMY	141NL*	College Chemistry I	5
___	CHMY	143NL*	College Chemistry II	5
___	M	171M*	Calculus I	5
___	M	172M*	Calculus II	5
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**34**

Second Year

✔	Course	#	Title	Credits
___	CAPP	156*	MS Excel	3
___	COMX	111C	Introduction to Public Speaking	3
___	PHSX	205NL*	College Physics I	5
___	PHSX	207NL*	College Physics II	5
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**32**
			Total Credits	**66[1]**

[1] If time permits students may consider taking the following courses:

___ BIOH	201NL*	Human Anatomy and Physiology I	4
___ BIOH	211NL*	Human Anatomy and Physiology II	4
___ BIOM	260N*	General Microbiology	3
___ BIOO	235NL	Rocky Mountain Flora	3
___ CHMY	123NL*	Introduction to Organic and Biochemistry	4
___ CHMY	221NL*	Organic Chemistry I	5
___ CHMY	223NL*	Organic Chemistry II	5

*Indicates prerequisite and/or corequisite needed. Check course description.

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Biotechnology
Transfer Curricula

Biotechnology is a rapidly expanding field of academic research and industry. Biotechnology industries are developing new approaches to treating diseases, finding new pharmaceutical agents, developing renewable energy sources, and improving food production. Students who are interested in entering this field will find many challenging career opportunities and the potential to develop new products aimed at solving some of society's urgent problems. To prepare for careers in Biotechnology students need to have a foundation in biology, microbiology, chemistry, and mathematics.

Associate of Science Degree

Suggested course of study for transfer to
Montana State University - Bozeman

First Year

✔	Course	#	Title	Credits
___	BIOB	105NL*	Introduction to Biotechnology	3
___	BIOB	160NL	Principles of Living Systems	4
___	BIOB	170N*	Principles of Biological Diversity	3
___	CHMY	141NL*	College Chemistry I	5
___	CHMY	143NL*	College Chemistry II	5
___	M	162M*	Applied Calculus	5
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3-4
			First Year Total	**34-35**

Second Year

✔	Course	#	Title	Credits
___	BIOB	205 *	Methods in Biotechnology	3
___	BIOB	260NL*	Cellular and Molecular Biology	5
___	BIOM	260N*	General Microbiology	3
___	BIOM	261L*	General Microbiology Lab	2
___	CHMY	221NL*	Organic Chemistry I	5
___	CHMY	223NL*	Organic Chemistry II	5
___	_____	____	Communications (C) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3-4
			Second Year Total	**35-36**

	Total Credits **69-71**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisor:
Dr. Ruth Wrightsman
RH 132
(406) 756-3878
rwrightsman@fvcc.edu

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Business Administration
Transfer Curricula

The study of business administration leads to career opportunities in accounting, economics, information systems, finance, human resources management, marketing, production management, and other business-related fields of study. This program provides the first two years of study leading to a bachelor's degree in these fields.

Completion of the following courses results in an associate degree. The associate degree meets the lower division general core requirements at **The University of Montana - Missoula**, **Montana State University - Billings, Montana State University - Bozeman**, **Montana State University - Northern,** the **University of Great Falls**, and most other four-year institutions. The suggested course work normally fulfills the first half of baccalaureate degree requirements in Business Administration. Course selection should be tailored to match requirements defined by intended transfer institutions.

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana - Missoula:

First Year

✔	Course	#	Title	Credits
___	BGEN	235	Business Law	4
___	BMIS	211*	Introduction to Business Decision Support	4
___	COMX	111C	Introduction to Public Speaking	3
___	ECNS	201B	Principles of Microeconomics	3
___	ECNS	202GB	Principles of Macroeconomics	3
___	M	115M*	Probability and Linear Mathematics[1]	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Electives	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
			First Year Total	**32**

Second Year

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	ACTG	202*	Principles of Managerial Accounting	4
___	BMIS	270*	MIS Foundations for Business	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Electives	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Mathematics (M) or Natural Science (NL or N) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			Second Year Total	**30**

	Total Credits **62**

[1] Finance majors should take M 162M*. This course should be taken prior to or concurrently with ACTG 201.
*Indicates prerequisite and/or corequisite needed.
Check course description.

Associate of Science Degree

Suggested course of study for a transfer to
Montana State University – Bozeman:

First Year

✔	Course	#	Title	Credits
___	BMIS	211*	Introduction to Business Decision Support	4
___	ECNS	201B	Principles of Microeconomics	3
___	M	162M*	Applied Calculus	5
___	WRIT	101W*	College Writing I	3
___	WRIT	122C*	Introduction to Business Writing	3
___	_____	____	WRIT 201W*[1] or Electives	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	ACTG	202*	Principles of Managerial Accounting[2]	4
___	ECNS	202GB	Principles of Macroeconomics	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Elective[3]	3
___	_____	____	Elective[3]	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Mathematics (M) or Natural Science (NL or N) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
			Second Year Total	**30**
			Total Credits	**60**

[1] If pursuing finance option.
[2] Not needed for the finance option.
[3] Suggested business electives that will not transfer for a specific class but will prepare the student for upper division classes include:

___	BFIN	260*	Principles of Finance	4
___	BMGT	235	Management	3
___	BMGT	237	Human Relations in Business	3
___	BMKT	225	Marketing	3

*Indicates prerequisite and/or corequisite needed.
Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Associate of Arts or Associate of Science Degree

Suggested course of study for a transfer
to **Montana State University - Northern:**

The general business Bachelor's degree at MSU - Northern can be earned online.

First Year

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	BMGT	237	Human Relations in Business	3
___	BMIS	211*	Introduction to Business Decision Support	4
___	COMX	111C	Introduction to Public Speaking	
	or			
___	COMX	115C	Introduction to Interpersonal Communication	3
___	ECNS	201B	Principles of Microeconomics	3
___	M	115M*	Probability and Linear Mathematics	3
___	WRIT	101W*	College Writing I	3
__	_____	____	Humanities (H) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3-4
___	_____	____	Social Sciences (A) Requirement	3-4
			First Year Total	**32-34**

Second Year

✔	Course	#	Title	Credits
___	ACTG	202*	Principles of Managerial Accounting	4
___	ACTG	205*	Computerized Accounting	2
___	BGEN	110	Applied Business Leadership	3
___	BGEN	235	Business Law	4
___	ECNS	202GB	Principles of Macroeconomics	3
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	122C*	Introduction to Business Writing	3
___	_____	____	Fine Arts (F) or Humanities (H) Requirement	3
___	_____	____	Natural Science (N or NL) Requirement	3
___	_____	____	Additional Degree Requirement [1]	3
			Second Year Total	**32**
			Total Credits	**64-66**

[1] Students need to take a fine arts course to earn the AA degree or another science or mathematics course to earn the AS degree.
*Indicates prerequisite and/or corequisite needed.
Check course description.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Associate of Science Degree

Suggested course of study for a transfer to **Montana State University - Billings**:

The General Business or Accounting Bachelor's Degree at MSU - Billings can be earned online.

First Year

✔	Course	#	Title	Credits
___	BMIS	211*	Introduction to Business Decision Support	4
	or			
___	CAPP	131*	Basic MS Office	2
___	ECNS	201B	Principles of Microeconomics	3
___	ECNS	202GB	Principles of Macroeconomics	3
___	M	115M*	Probability and Linear Mathematics	3
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Natural Science (NL) Requirement	4
___	_____	____	Electives	3-5
			First Year Total	**30-32**

Second Year

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	ACTG	202*	Principles of Managerial Accounting	4
___	BGEN	235	Business Law	4
___	WRIT	122C*	Introduction to Business Writing	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Mathematics (M) or Natural Science (NL or N) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
___	_____	____	Electives	3
			Second Year Total	**30**
			Total Credits	**60-62**

*Indicates prerequisite and/or corequisite needed.
Check course description.

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Chemistry
Transfer Curricula

Chemistry is a physical science that addresses the physical, mathematical, and biological aspects of the smallest known forms of matter. Understanding the fundamentals of chemistry is imperative as a foundation to all other areas of science. Chemistry explains atomic and molecular structure; the relationship that atomic and molecular structures have with the real world; the forces that govern the construction (or synthesis), behavior (or physical properties), and quantitative measure of chemicals. Applications of chemistry are found everywhere. Some careers that have broad applications in chemistry are chemical engineering, biology, pharmacy, pharmacology, medicine, veterinary, chiropractic, geology, psychology, criminology, business and industry, law, journalism, laboratory technician, medical technician, and art.

Colleges and universities require that a student working toward a baccalaureate degree complete certain general education requirements in addition to courses required in the major area of study. With judicious planning, a student should be able to complete the general education requirements of the Montana University System and earn an Associate of Science (AS) degree by following FVCC's chemistry transfer program. Students interested in beginning their work at FVCC toward a degree or a major in chemistry should carefully consult the current catalog of the college or university to which they anticipate transferring in order to determine specific degree requirements. **Montana State University - Bozeman** offers bachelor degrees in chemistry and biochemistry with professional, and teaching options. **Montana Tech of The University of Montana** offers bachelor programs in chemistry and biochemistry. **The University of Montana - Missoula** offers bachelor degrees in chemistry, biochemistry, biological chemistry, environmental chemistry and pharmacology. MSU and UM also offer graduate study programs leading to the MS and PhD degrees.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BMIS	211*	Introduction to Business Decision Support	4
___	CHMY	141NL*	College Chemistry I	5
___	M	171M*	Calculus I	5
___	WRIT	101W*	College Writing I	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	CHMY	143NL*	College Chemistry II	5
___	M	172M*	Calculus II	5
___	PHSX	210NL*	General Physics I	6
			Second Semester Total	**16**

Summer Semester

✔	Course	#	Title	Credits
___	_____	___	Global Issues (G) Requirement	3
___	_____	___	Social Sciences (A) Requirement	3
___	_____	___	Social Sciences (B) Requirement	3
			Third Semester Total	**9**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	221NL*	Organic Chemistry I	5
___	M	273M*	Multivariable Calculus[1]	5
___	PHSX	212NL*	General Physics II	6
___	_____	___	Humanities (H) Requirement	3
			First Semester Total	**19**

Spring Semester

✔	Course	#	Title	Credits
___	CHMY	223NL*	Organic Chemistry II	5
___	M	221M*	Introduction to Linear Algebra[1]	4
___	_____	___	Communications (C) Requirement	3
___	_____	___	Humanities (H) or Fine Arts (F) Requirement	3
			Second Semester Total	**15**

Total Credits **76****

[1] Bachelor of Science Chemistry majors require these mathematics courses. The other options listed above only require M 171M* and M 172M*.

*Indicates prerequisite and/or corequisite needed. Check course description.

**Specific options students may pursue are biochemistry, biological chemistry, environmental chemistry or pharmacology. These alternative courses may include the following:

___	BCH	280N*	Biochemistry	3
___	BCH	281L*	Biochemistry Lab	2
___	BIOB	160NL	Principles of Living Systems	4
___	BIOB	260NL*	Cellular and Molecular Biology	5
___	BIOB	275N*	General Genetics	4
___	GEO	101NL	Introduction to Physical Geology	4

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Suggested course of study for Chemistry majors transferring to **Montana State University – Bozeman:**

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	141NL*	College Chemistry I	5
___	M	171M*	Calculus I	5
___	WRIT	101W*	College Writing I	3
___	_____	____	Social Sciences (A) Requirement	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	CHMY	143NL*	College Chemistry II	5
___	M	172M*	Calculus II	5
___	PHSX	210NL*	General Physics I [1]	6
			Second Semester Total	**16**

Summer Semester

✔	Course	#	Title	Credits
___	_____	____	Communications (C) Requirement	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Third Semester Total	**9**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	221NL*	Organic Chemistry I	5
___	M	273M*	Multivariable Calculus	5
___	PHSX	212NL*	General Physics II [1]	6
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	BCH	280N*	Biochemistry	3
___	BCH	281L*	Biochemistry Lab	2
___	CHMY	223NL*	Organic Chemistry II	5
___	_____	____	Fine Arts (F) or Humanitites (H) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
			Second Semester Total	**16**
			Total Credits	**73**

[1] Physics option. A student can take the alternate College Physics option. A student who does not place into M 171M* would need to follow the College Physics option in order to complete the AS degree in two years.

*Indicates prerequisite and/or corequisite needed.
Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Suggested course of study for Biochemistry majors transferring to **Montana State University – Bozeman:**

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	256NL*	Intro Biol: Cells to Organisms	4
___	CHMY	141NL*	College Chemistry I	5
___	M	162M*	Applied Calculus	5
___	WRIT	101W*	College Writing I	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BIOB	260NL*	Cellular and Molecular Biology	5
___	CHMY	143NL*	College Chemistry II	5
___	PHSX	205NL*	College Physics I	5
___	_____	____	Communications (C) Requirement	3
			Second Semester Total	**18**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	221NL*	Organic Chemistry I	5
___	PHSX	207NL*	College Physics II	5
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			First Semester Total	**19**

Spring Semester

✔	Course	#	Title	Credits
___	BCH	280N*	Biochemistry	3
___	BCH	281L*	Biochemistry Lab	2
___	CHMY	223NL*	Organic Chemistry II	5
___	_____	____	Fine Arts (F) or Humanitites (H) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
			Second Semester Total	**16**
			Total Credits	**70**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Suggested course of study for Biochemistry majors transferring to **Montana Tech of The University of Montana:**

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	141NL*	College Chemistry I	5
___	M	171M*	Calculus I	5
___	WRIT	101W*	College Writing I	3
___	_____	____	Social Sciences (A) Requirement	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	CHMY	143NL*	College Chemistry II	5
___	M	172M*	Calculus II	5
___	PHSX	205NL*	College Physics I	5
___	_____	____	Communications (C) Requirement	3
			Second Semester Total	**18**

Summer Semester

✔	Course	#	Title	Credits
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) Requirement	3
			Third Semester Total	**6**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	221NL*	Organic Chemistry I	5
___	PHSX	207NL*	College Physics II	5
___	_____	____	Fine Arts (F) or Humanitites (H) Requirement	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BIOB	260NL*	Cellular and Molecular Biology	5
	or			
___	BIOM	250NL*	Microbiology for Health Sciences	4
___	CHMY	223NL*	Organic Chemistry II	5
___	STAT	216M *	Introduction to Statistics	4
___	____	____	Social Sciences (B) Requirement	3-4
			Second Semester Total	**16-18**
			Total Credits	**73-75[1]**

In addition, BIOH 201NL* is also recommended prior to transferring. The rigor of this program may necessitate it be completed with a third year and/or by attending additional semesters.

[1] CSCI 111 could be taken to satisfy another requirement if a student spends additional time at FVCC before transferring.

Montana Tech's Chemistry major has a curriculum very similar to that of Biochemistry. See an advisor for the specific differences.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisor:
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Communication Studies

Transfer Curricula

The program in communication studies helps to prepare students for such diverse professions as: public relations officer, marketing analyst, human resources or personnel manager, community mediator, political speech writer, health communication trainer, social services director or student services coordinator.

The Department of Communication Studies at **The University of Montana - Missoula** focuses on three broad areas of study: interpersonal interaction and human relationships, organizational communication, and rhetoric and public discourse.

Associate of Arts Degree

Suggested course of study for a transfer to **The University of Montana – Missoula:**

First Year

✔	Course	#	Title	Credits
___	M	115M*	Probability and Linear Mathematics	3
___	COMX	111C	Introduction to Public Speaking	3
___	COMX	115C	Introduction to Interpersonal Communication	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	LIT 110H[3] or Humanities (H) Requirement[1,2]	3
___	_____	____	Natural Science (NL) Requirement	3
___	_____	____	PSYX 100A[2], SOCI 101A[1] or Social Sciences (A) Requirement[3]	3-4
			First Year Total	**30-31**

Second Year

✔	Course	#	Title	Credits
___	COMX	215	Negotiations/Conflict Resolution	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	ANTY 220G[1] or SOCI 220GA[2,3]	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	HSTA 102B[3] or Social Sciences (B) Requirement[1,2]	3-4
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	PSCI 250HB[3] or Humanities (H) or Fine Arts (F) Requirement[1,2]	3
___	_____	____	PSYX 230A*[2] or Electives[1,3]	3
___	_____	____	PSYX 233*[2] or Electives[1,3]	3
			Second Year Total	**31-32**
			Total Credits	**61-63**

[1] If pursuing the Organizational Communication option.
[2] If pursuing the Communication and Human Relationships option.
[3] If pursuing the Rhetoric and Public Discourse option.
*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisor:
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(406) 756-3906
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Computer Science
Transfer Curricula

Computer Science is a profession concerned with both the theoretical investigations and practical developments in computer technology, programming, and applications. Computer Science graduates generally find employment in the high tech or scientific areas. Listed below is the suggested course of study for students transferring to **Montana State University - Bozeman, The University of Montana - Missoula,** and **Montana Tech of The University of Montana.** The computer engineering transfer program to MSU is listed under the engineering transfer program.

Those students who do not meet the prerequisites for the computer science or the math courses in the course of study listed below should meet with an advisor to discuss their options.

Associate of Science Degree

Suggested course of study for a transfer to **Montana State University – Bozeman:**

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CSCI	111	Programming with Java I	4
___	M	171M*	Calculus I	5
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	3
___	CSCI	121*	Programming with Java II	4
___	M	172M*	Calculus II	5
___	_____	____	Natural Science (NL) Requirement[1]	3-6
			Second Semester Total	**15-18**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CSCI	232*	Data Structures and Algorithms	3
___	M	225M*	Introduction to Discrete Mathematics	4
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Natural Science (N or NL) Requirement[2]	3
___	_____	____	Social Sciences (A) Requirement	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	CSCI	113*	Programming with C++ I	4
___	M	221M*	Introduction to Linear Algebra	4
___	WRIT	121C*	Introduction to Technical Writing	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Semester Total	**17**

Total Credits **63-66**

[1]PHSX 210NL* is preferred.

[2]PHSX 205NL*, PHSX 207NL*, and CHMY 121NL* are the only Natural Sciences that will not work for this major.

*Indicates prerequisite and/or corequisite needed. Check course description.

For general information, contact the Admissions office: (406) 756-3847.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Suggested course of study for a transfer to **Montana Tech of The University of Montana:**

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CSCI	111	Programming with Java I	4
___	M	171M*	Calculus I	5
___	WRIT	101W*	College Writing I	3
___	_____	____	Social Sciences (A) Requirement	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	3
___	CSCI	121*	Programming with Java II	4
___	M	172M*	Calculus II	5
___	_____	____	Natural Science (NL) Requirement[1]	5-6
			Second Semester Total	**17-18**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	M	273M*	Multivariable Calculus	5
___	_____	____	Humanities (H) Requirement	3
____	____	____	Natural Science (NL or N) Requirement**	5-6
___	_____	____	Social Sciences (B) Requirement	3
			First Semester Total	**16-17**

Spring Semester

✔	Course	#	Title	Credits
___	CSCI	113*	Programming with C++I	4
___	CSCI	232*	Data Structures and Algorithms	3
___	M	274M*	Introduction to Differential Equations	5
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			Second Semester Total	**18**

Total Credits **66-68**

[1]This Natural Science requirement must be fulfilled with a two-semester sequence of laboratory science (minimum of 12 credits total). Students must choose either CHMY 141NL* and CHMY 143NL* and two additional science credits OR PHSX 210NL* and PHSX 212NL*. Students pursuing the control systems option at MT Tech must take the PHSX sequence. This program at Montana Tech requires a third, 3-credit science elective which students could take as time permits.

*Indicates prerequisite and/or corequisite needed. Check course description.

Students interested in pursuing the business applications track at MT Tech are encouraged to take the following additional courses at FVCC (time permitting):

___	ACTG	201	Principles of Financial Accounting	4
___	ACTG	202*	Principles of Managerial Accounting	4
___	BGEN	235	Business Law	4

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Suggested course of study for a transfer to **The University of Montana – Missoula:**

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CSCI	111	Programming with Java I	4
___	M	171M*	Calculus I	5
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
			First Semester Total	**19**

Spring Semester

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	3
___	CSCI	121*	Programming with Java II	4
___	M	172M*	Calculus II	5
___	PHSX	210NL*	General Physics I[1]	6
			Second Semester Total	**18**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	M	221M*	Introduction to Linear Algebra	4
___	M	225M*	Introduction to Discrete Mathematics	4
___	PHSX	212NL*	General Physics II[1]	6
			First Semester Total	**14**

Spring Semester

✔	Course	#	Title	Credits
___	CSCI	113*	Programming with C++ I	4
___	CSCI	232*	Data Structures and Algorithms	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Semester Total	**16**

Total Credits **67****

[1] Students could choose to take the CHMY 141NL* and CHMY 143NL* sequence instead.
*Indicates prerequisite and/or corequisite needed. Check course description.

**If time permits, students should consider taking one of the following science electives:

___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	141NL*	College Chemistry I	5
___	ENSC	105NL	Environmental Science	4
___	GEO	101NL	Introduction to Physical Geology	4

For general information, contact the Admissions office: (406) 756-3847.

Criminal Justice
Transfer Curricula

The Criminal Justice program at the **University of Great Falls** or **The University of Montana - Missoula** prepares students for employment in public and private criminal justice agencies, law enforcement agencies, as well as correctional, probation, and parole organizations. After earning a bachelor's degree in criminal justice, students may also choose to pursue graduate school, studying sociology, criminal justice, or law. As of 2009-2010 under a new 2+2 partnership, students will be able to complete the Bachelor of Arts degree in Criminal Justice through the University of Great Falls on the FVCC campus.

Montana State University - Northern has developed an on-line Criminal Justice program that will be articulated next year but is not fully completed. In the next year MSU-Northern will develop a few separate tracks or options. One track will focus on Law Enforcement (Police and Sheriff Departments), another track will focus on Corrections, another track will focus on Probation and Parole, and a possible track focused on Juveniles. See Rick Metcalf, CJ instructor or Dan Voermans, transfer advisor about any specific information

Associate of Science Degree

Suggested course of study for a transfer to the **University of Great Falls:**

First Year

✔	Course	#	Title	Credits
___	CAPP	120	Introduction to Computers	3
___	CJUS	121A	Introduction to Criminal Justice	3
___	CJUS	200	Principles of Criminal Law	3
___	CJUS	220	Introduction to Corrections	3
___	CJUS	231*	Criminal Evidence and Procedure	2
___	CJUS	271*	Introduction to Judicial Function	1
___	COMX	111C	Introduction to Public Speaking	3
___	M	115M*	Probability and Linear Mathematics	3
___	PSYX	100A	Introduction to Psychology	4
	or			
___	SOCI	101A	Introduction to Sociology	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Fine Arts (F) Requirement[1]	3
___	_____	____	RLST 100G or RLST 220G	3
			First Year Total	**33-34**

Second Year

✔	Course	#	Title	Credits
___	CHMY	280NL*	Forensic Science I	4
___	CHMY	282NL*	Forensic Science II	4
___	LIT	110H	Introduction to Literature	3
___	SOCI	260	Introduction to Juvenile Delinquency	3
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	201W*	College Writing II	3
___	_____	____	Mathematics (M) or Natural Science (NL or N) Requirement	4
___	_____	____	Social Sciences (B) Requirement	3-4
			Second Year Total	**28-29**
			Total Credits	**61-63**

[1]Needed to satisfy a UGF Fine Arts requirement and the second AS Humanities/Fine Arts requirement.

*Indicates prerequisite and/or corequisite needed.
Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Associate of Science or Associate of Arts Degree

Suggested course of study for a transfer to **The University of Montana – Missoula:**

First Year

✔	Course	#	Title	Credits
___	CJLE	109C	Police Report Writing	3
___	CJUS	121A	Introduction to Criminal Justice	3
___	CJUS	230	Police Organization	3
___	M	115M*	Probability and Linear Mathematics	3
___	PSCI	210B	Introduction to American Government	3
___	SOCI	101A	Introduction to Sociology	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Electives[1]	3
___	_____	____	Electives[1]	3
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	CHMY	280NL*	Forensic Science I	4
___	CJUS	231*	Criminal Evidence and Procedure	2
___	CJUS	271*	Introduction to Judicial Function	1
___	SOCI	220GA	Race, Gender, and Class	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Electives[1]	3
___	_____	____	Electives	4
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Fine Arts (F) Requirement[3] or Mathematics (M) or Natural Science (NL or N) Requirement[4]	3-4
___	_____	____	Natural Science (NL or N) Requirement [2]	3-4
			Second Year Total	**30-32**
			Total Credits	**60-62**

[1] Suggested electives include HTH 205, PSYX 100A, and PSYX 240A*.
[2] Although only CHMY 280NL* will directly work as a transfer course, CHMY 282NL* would also prepare the student for a 400-level course at The University of Montana.
[3] For an AA degree.
[4] For a BS degree.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisor: Richard Metcalf, BSS 128, (406) 756-3870
rmetcalf@fvcc.edu

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Dental Hygiene
Transfer Curricula

The dental hygienist is a licensed health care professional, oral health educator, and clinician who is an integral part of the dental team. Registered dental hygienists provide direct dental hygiene care to patients.

Dental hygienists discuss general health issues with patients. They look for any abnormalities or disease in the oral cavity. Hygienists take x-rays and inspect patients' teeth for deposits and decay. They preform cancer screenings of the head and neck lymph nodes. Hygienists use dental instruments to remove deposits and stains from around the teeth. They administer anesthetic agents and nitrous oxide sedation for ease and comfort of the client/patient during hygiene care. They also do preventative procedures such as flouride and sealant placement.

Great Falls College - Montana State University offers an Associate of Applied Science Degree in Dental Hygiene. It is a competitive program and students often times seek the entire AS degree to enhance their application or for flexibility to transfer for other health majors. Northern Wyoming Community College has an AAS degree which has similar prerequisite courses as the one for Great Falls College - Montana State University.

Associate of Science Degree

Suggested course of study for a transfer to **Great Falls College - Montana State University** in predental hygiene:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	M	121M*	College Algebra[1,3]	
	or			
___	M	145Q*	Mathematics for the Liberal Arts	3
___	PSYX	100A	Introduction to Psychology[2]	4
___	WRIT	101W*	College Writing I	3
			First Semester Total	**18**

Spring Semester

✔	Course	#	Title	Credits
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	BIOM	250NL*	Microbiology for Health Sciences	4
___	CHMY	121NL*	Introduction to General Chemistry	4
___	SOCI	101A	Introduction to Sociology[2]	3
___	_____	___	COMX 111C or COMX 115C[2]	3
			Second Semester Total	**18****

**All of the above are prerequisites or program requirements (as noted). Finishing the remainder of the degree will give the student a slight advantage in the application evaluation process.

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	160	Pharmacology[2]	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Humanities (H) Requirement	3
			First Semester Total	**12**

Spring Semester

✔	Course	#	Title	Credits
___	_____	____	Electives	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Semester Total	**12**
			Total Credits	**60**

[1] To earn the AS degree, either will suffice as the prerequisite for the Great Falls College - MSU.
[2] Program requirements which can be taken at FVCC to lighten the load when the student is in the Great Falls College - MSU Dental Hygiene program.
[3] Required at Northern Wyoming Community College. Additional requirements at Northern Wyoming Community College are NUTR 221N and WRIT 121C* or WRIT 201W*.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisor:
Adam Wenz
RH 106C
(406) 756-3616
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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Economics
Transfer Curricula

The transfer program in economics prepares students for a successful transfer to **The University of Montana - Missoula, Montana State University - Bozeman,** or other four-year institutions. **Montana State University - Bozeman** offers students two options, general economics and economic science, which could lead them to the Bachelor of Science degree in economics.

Students earning a bachelor degree in economics are prepared for various graduate programs including law school. Economists often seek employment opportunities as consultants, helping private businesses, non-profit organizations, and branches of government.

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	ECNS	201B	Principles of Microeconomics	3
___	ECNS	202GB	Principles of Macroeconomics	3
___	M	115M*	Probability and Linear Mathematics	3
___	WRIT	101W*	College Writing I	3
___	_____	____	M 152M* & M 162M* or M 171M*[1] & M 172M* [1]	9-10
___	_____	____	Communications (C) Requirement	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**36-37**

Second Year

✔	Course	#	Title	Credits
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Mathematics (M) or Natural Science (NL or N) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			Second Year Total	**28**
			Total Credits	**64-65**

[1] If student has intention of going to graduate school.

*Indicates prerequisite and/or corequisite needed.
Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Suggested course of study for a transfer to
Montana State University – Bozeman:

First Year

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	3
___	ECNS	201B	Principles of Microeconomics[1]	3
___	ECNS	202GB	Principles of Macroeconomics	3
___	M	115M*	Probability and Linear Mathematics	3
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	101W*	College Writing I	3
___	WRIT	201W*	College Writing II	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**34**

Second Year

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	M	162M*	Applied Calculus	
	or			
___	M	171M*	Calculus I	5
___	_____	____	WRIT 121C* or WRIT 122C*	3
___	_____	____	Electives	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Mathematics (M) or Natural Science (NL or N) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			Second Year Total	**30**
			Total Credits	**64**

[1] Students will still need to take ECNS 204 at Montana State University - Bozeman but this will prepare the student for that course.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisor:
Gregg Davis
BSS 125
(406) 756-3867
gdavis@fvcc.edu

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Education
Transfer Curricula

Most Montana four-year colleges and universities have teacher training programs in both elementary and secondary education. Elementary teachers are certified by the state to teach grades K-8 and secondary teachers can teach, in a major or minor, grades 5-12. The national job outlook for teachers for the next five to ten years is quite favorable due to projected high levels of retirement.

Students may begin their teacher training at FVCC in both elementary and secondary programs, and in most cases complete their education in an additional two years at a transfer institution. The **University of Great Falls** has an elementary education program and some secondary education teaching majors on the FVCC campus .

Admission into teacher education programs at four-year schools can be competitive and requires good grades, experience working with youth, and strong recommendations. Students need to apply to the school of education at their transfer school, usually the semester prior to starting at that school.

If time permits, students may consider taking additional course work to fulfill concentration or endorsement requirements at their transfer institutions. ECP 100, First Aid and CPR, could be taken but current certification is needed prior to student teaching, so a student may want to wait until the semester prior to student teaching. Students should consult their advisors and their transfer institutions for specific recommendations.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Elementary Education
Transfer Curricula

The suggested course load for the elementary education transfer programs is rigorous. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or by extending the course load for an additional semester or two at FVCC before transferring.

Education requirements vary from school to school, as well as deadlines to apply for admission into the School of Education. Therefore, it is important for students to meet with their advisor regularly.

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	EDU	201	Introduction to Education with Field Experience	3
___	EDU	270	Instructional Technology	3
___	GEO	100NL	Introduction to Earth Science	4
___	PSCI	210B	Introduction to American Government	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	____	____	Any Literature course from the Humanities (H) Requirement	3
___	____	____	GPHY 121GA or GPHY 141GA	3
___	____	____	HSTA 101B or HSTA 102B	4
			First Year Total	**34**

Second Year

✔	Course	#	Title	Credits
___	HEE	233	Health Issues of Children and Adolescents	3
___	HSTA	255B	Montana History	3
___	M	135Q*	Mathematics for K-8 Teachers I	5
___	M	136Q*	Mathematics for K-8 Teachers II	4
___	NSCI	103NL*	Basic Physical Science	4
___	____	____	NASX 105G or NASX 232G	3
___	____	____	Communications (C) Requirement	3
___	____	____	Fine Arts (F) Requirement	3
___	____	____	Fine Arts (F) or Humanities (H) Requirement	3
			Second Year Total	**31**
			Total Credits	**65[1]**

[1] If time and course load allows, take EDU 221* when offered.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Suggested course of study for a transfer to the **University of Great Falls:**

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CAPP	120	Introduction to Computers	3
___	COMX	111C	Introduction to Public Speaking	3
___	EDSP	204	Introduction to Teaching Exceptional Learners	3
___	EDU	201	Introduction to Education with Field Experience	3
___	EDU	297	Methods: K-8 Art	3
___	HEE	233	Health Issues of Children and Adolescents	3
___	HSTA	101B	American History I	4
___	HSTA	102B	American History II	4
___	M	115M*	Probability and Linear Mathematics[3]	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Fine Arts (F) Requirement	3
			First Year Total	**39**

Second Year

✔	Course	#	Title	Credits
___	EDU	242	Introduction to Gifted Education	2
___	EDU	270	Instructional Technology[1]	3
___	EDU	297	Methods: K-8 Music	3
___	GPHY	141GA	Geography of World Regions	3
___	LIT	110H	Introduction to Literature[2]	
	or			
___	PHL	101H	Introduction to Philosophy: Reason and Reality	3
___	M	135Q*	Mathematics for K-8 Teachers I	5
___	M	136Q*	Mathematics for K-8 Teachers II	4
___	NSCI	102NL*	The Nature of Science	4
___	NSCI	103NL*	Basic Physical Science	4
___	STAT	216M*	Introduction to Statistics[3]	4
___	WRIT	201W*	College Writing II	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	RLST 100G or RLST 220G	3
			Second Year Total	**44**
			Total Credits	**83**

Most UGF curriculums are more than the 60 credits required for the AA or AS degree and few students could complete this curriculum in two years. This is because UGF is generous in accepting FVCC credits and has additional general education credits. Students who wish to earn a UGF degree must meet UGF residency requirements (number of UGF credits delivered to our campus or online) in the major. Please see the UGF catalog for details. Students applying only for licensure in a major should contact the UGF Education Department in Great Falls to determine if a specialized plan of study is appropriate.

[1] Students should take this class near the end of their AA completion.
[2] Required if the student's concentration will be Communication Arts, otherwise either will work.
[3] Students could omit these two courses and take a UGF statistics course on-line.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Suggested course of study for a transfer to **Montana State University – Bozeman:**

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	COMX	111C	Introduction to Public Speaking	3
___	EDU	201	Introduction to Education with Field Experience	3
___	LIT	110H	Introduction to Literature	3
___	NASX	232G	Montana Indians: Cultures, Histories, Current Issues	3
___	PSCI	210B	Introduction to American Government	3
___	WRIT	101W*	College Writing I	3
___	_____	____	CHMY 121NL* or NSCI 103NL*	4
___	_____	____	HSTA 101B or HSTA 102B	4
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	ASTR	110N	Introduction to Astronomy[1]	3
___	EDU	270	Intructional Technology	3
___	GPHY	121GA	Human Geography	
	or			
___	GPHY	141GA	Geography of World Regions	3
___	M	135Q*	Mathematics for K-8 Teachers I	5
___	M	136Q*	Mathematics for K-8 Teachers II	4
___	PSYX	100A	Introduction to Psychology[2]	4
___	_____	____	Fine Arts (F) Requirement[3]	3
___	_____	____	GEO 100NL or GPHY 111NL	4
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			Second Year Total	**32**
			Total Credits	**62**

[1] Students wanting to have math as their area of concentration should take M 152M* instead.
[2] If time and course load permit, also take PSYX 230A* while at FVCC.
[3] Should be a studio arts, art history or music class.

*Indicates prerequisite and/or corequisite needed.
Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Suggested course of study for a transfer to
The University of Montana – Western:

First Year

✔	Course	#	Title	Credits
___	ARTZ	105F	Visual Language-Drawing	3
___	BIOB	160NL	Principles of Living Systems	4
___	CAPP	106*	Short Courses: Computer Applications[1]	1
___	CAPP	131*	Basic MS Office[1]	2
___	COMX	111C	Introduction to Public Speaking	3
___	EDEC	135*	Language and Literature for Young Children	2
___	EDU	201	Introduction to Education with Field Experience	3
___	GPHY	121GA	Human Geography	3
___	PSCI	210B	Introduction to American Government	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement[2]	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	EDU	270	Instructional Technology	3
___	GEO	101NL	Introduction to Physical Geology	4
___	HEE	233	Health Issues of Children and Adolescents	3
___	M	135Q*	Mathematics for K-8 Teachers I	5
	or			
___	M	136Q*	Mathematics for K-8 Teachers II[4]	4
___	THTR	101FH	Introduction to Theatre	3
___	_____	____	CHMY 121NL* or NSCI 103NL*	4
___	_____	____	HSTA 101B or HSTA 102B	4
___	_____	____	Electives[3]	3
___	_____	____	Global Issues (G) or Social Sciences (A) Requirement	3
			Second Year Total	**31-32**
			Total Credits	**61-62**

*Indicates prerequisite and/or corequisite needed. Check course description.

[1]UM-Western requires a computer competency exam. Having the skills from these courses should prepare the student for this competency exam.
[2]Any literature course plus EDEC 135* will fulfill the UM-Western literature requirement.
[3]Course should be in the area of desired concentration. See UM-Western Elementary Education website for choices.
[4]Although only one course is required, it is recommended to take both.

Suggested course of study for a transfer to
Montana State University – Northern:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
	or			
___	BIOH	104N	Basic Human Biology	3
	and			
___	BIOH	105L*	Basic Human Biology Laboratory	1
___	COMX	115C	Introduction to Interpersonal Communication	3
___	EDU	201	Introduction to Education with Field Experience	3
___	EDU	270	Instructional Technology	3
___	HSTA	255B	Montana History	3
___	LIT	110H	Introduction to Literature	3
___	M	121M*	College Algebra	3
___	PSYX	100A	Introduction to Psychology	4
___	PSYX	230A*	Developmental Psychology	3
___	WRIT	101W*	College Writing I	3
			First Year Total	**32**

Second Year

✔	Course	#	Title	Credits
___	HEE	233	Health Issues of Children and Adolescents	3
___	M	135Q*	Mathematics for K-8 Teachers I	5
___	NASX	105G	Introduction to Native American Studies	3
___	NSCI	103NL*	Basic Physical Science	4
___	PSCI	210B	Introduction to American Government	3
___	_____	____	Electives[2]	6
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			Second Year Total	**30**
			Total Credits	**62**[1]

[1] If course load allows, students could also take HTH 110 to fulfill another health requirement at MSU - Northern.
[2] Electives should be in the area of concentration that the student chooses to minor in.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Suggested course of study for a transfer to
Montana State University – Billings
majoring in elementary education or special education:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	COMX	111C	Introduction to Public Speaking	3
___	EDU	201	Introduction to Education with Field Experience	3
___	GPHY	121GA	Human Geography	3
	or			
___	HSTR	102B	Western Civilization II	4
___	HEE	233	Health Issues of Children and Adolescents	3
___	M	135Q*	Mathematics for K-8 Teachers I	5
___	M	136Q*	Mathematics for K-8 Teachers II	4
___	MUSI	101F	Enjoyment of Music	3
___	WRIT	101W*	College Writing I	3
			First Year Total	**31-32**

Second Year

✔	Course	#	Title	Credits
___	EDSP	204	Introduction to Teaching Exceptional Learners	3
___	NASX	105G	Introduction to Native American Studies	3
___	NSCI	103NL*	Basic Physical Science	4
___	PSCI	210B	Introduction to American Government	3
___	PSYX	100A	Introduction to Psychology	4
___	PSYX	230A*	Developmental Psychology	3
___	WRIT	201W*	College Writing II	3
___	_____	____	HSTA 101B or HSTA 102B	4
___	_____	____	Humanities (H) Requirement	3
___	_____	____	ARTH 200FGH, ARTH 201FGH, ARTH 228FGH, ARTH 229FGH, LSH 261H, LSH 262H, LIT 240H, PHL 101H or PHL 110H	3-4
			Second Year Total	**33-34**
			Total Credits	**64-66**[1]

[1] If time permits, take EDU 221*.

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Elementary Education Major Requirements

	FVCC	UM - Missoula	UGF	MSU - Bozeman	MSU - Billings	MSU - Northern	UM - Western
ARTZ 105F	Visual Language-Drawing	Not Required	Not Required	ARTZ 105F Recommended	Not Required	Not Required	Required
BIOB 160NL	Principles of Living Systems	Required	Required	Required[1]	Required	or BIOH 104N and BIOH 105L*	Required
CAPP 131*	Basic MS Office	Not Required	Take CAPP 120 Instead	Not Required	Not Required	Not Required	Recommended
CHMY 121NL*	Introduction to General Chemistry	Not Required	Not Required	CHMY 121NL*[1] or NSCI 103NL*[1]	Not Required	Not Required	CHMY 121NL* or NSCI 103NL*
COMX 111C	Introduction to Public Speaking	Not Required	Required	Required	Required	Take COMX 115C Instead	Required
EDSP 204	Introduction to Teaching Exceptional Learners	Not Required	Required	Not Required	Required	Not Required	Not Required
EDU 201	Introduction to Education with Field Experience	Required	Required	Required	Required	Required	Required
EDU 242	Introduction to Gifted Education	Not Required	Required	Not Required	Not Required	Not Required	Not Required
EDU 270	Instructional Technology	Recommended**	Required	Recommended**	Not Required	Recommended**	Recommended**
EDU 297	Methods: K-8 Art	Recommended**	Required	Not Required	Not Required	Not Required	Not Required
EDU 297	Methods: K-8 Music	Not Required	Required	Not Required	Not Required	Not Required	Not Required
GEO 100NL	Introduction to Earth Science	Required	Not Required	GEO 100NL[1] or GEO 101NL[1]	Not Required	Not Required	Not Required
GEO 101NL	Introduction to Physical Geology	Not Required	Not Required	Not Required	Not Required	Not Required	Required
GPHY 121GA	Human Geography	GPHY 121GA or GPHY 141GA	Not Required	GPHY 121GA or GPHY 141GA	Required or HSTR 102B	Not Required	Not Required
GPHY 141GA	Geography of World Regions	GPHY 121GA or GPHY 141GA	Required	GPHY 121GA or GPHY 141GA	Not Required	Not Required	Not Required
HEE 233	Health Issues of Children and Adolescents	Required	Required	Not Required	Recommended	Recommended	Recommended
HSTA 101B	American History I	HSTA 101B or HSTA 102B	Required	HSTA 101B or HSTA 102B	HSTA 101B or HSTA 102B	HSTA 101B or HSTA 102B	HSTA 101B or HSTA 102B
HSTA 102B	American History II	HSTA 101B or HSTA 102B	Required	HSTA 101B or HSTA 102B	HSTA 101B or HSTA 102B	HSTA 101B or HSTA 102B	HSTA 101B or HSTA 102B

[1] MSU-Bozeman has a fourth science requirement and ASTR 110N is preferred.

*Indicates prerequisite and/or corequisite needed. Check course description.
**Recommended to take at FVCC and will apply toward respective college's course taught at the 300-level.

Elementary Education Major Requirements (cont'd)

	FVCC	UM - Missoula	UGF	MSU - Bozeman	MSU - Billings	MSU - Northern	UM - Western
HSTA 255B	Montana History	Required	Not Required	Not Required	Not Required	Required	Not Required
HSTR 102B	Western Civilization II	Not Required	Not Required	Not Required	GPHY 121GA or HSTR 102B	Not Required	Not Required
LIT 110H	Introduction to Literature	Any literature course from the Humanities(H) Requirement	Required	Not Required	Not Required	Required	Required
M 135Q*	Mathematics for K-8 Teachers I	Required	Required	Required	Required	Required	Recommended
M 136Q*	Mathematics for K-8 Teachers II	Required	Required	Required	Required	Take M 121M* instead	Recommended
MUSI 101F	Enjoyment of Music	Not Required	Not Required	ARTH 200FGH, ARTH 201FGH, ARTZ105F, MUSI 101F or MUSI 207FG	Required	Not Required	Not Required
NASX 105G	Introduction to Native American Studies	NASX 105G or NASX 232G	Not Required[1]	NASX 232G instead	Required	Required	Not Required[1]
NASX 232G	Montana Indians: Cultures, Histories, Current Issues	NASX 105G or NASX 232G	Not Required[1]	Required	Not Required	Not Required	Not Required[1]
NSCI 102NL*	The Nature of Science	Not Required	Required	Not Required	Not Required	Not Required	Not Required
NSCI 103NL*	Basic Physical Science	Required	Required	CHMY 121NL* or NSCI 103NL*	Required	Required	CHMY 121NL* or NSCI 103NL*
PSCI 210B	Introduction to American Government	Required	Not Required	Required	Required	Required	Required
PSYX 100A	Introduction to Psychology	Required	Not Required	Required	Required	Required	Not Required
PSYX 230A*	Developmental Psychology	Not Required	Not Required	Recommended	Required	Required	Not Required
RLST 100G	Introduction to the Study of Religion	Not Required	RLST 100G or RLST 220G	Not Required	Not Required	Not Required	Not Required
WRIT 101W*	College Writing I	Required	Required	Required	Required	Required	Required
WRIT 201W*	College Writing II	Not Required	Required	Not Required	Required	Not Required	Not Required

[1] Students at these campuses fulfill the Native American Studies requirement through an upper division Multicultural class.
*Indicates prerequisite and/or corequisite needed. Check course description.

Secondary Education

Transfer to all Montana Colleges and Universities

In Montana, those desiring to become secondary teachers (grades 5-12) must pursue a bachelor degree in a certifiable major, often with a minor, from a four-year college or university. Most four-year institutions in Montana offer secondary teaching degrees but offerings for majors and minors vary from school to school, so students must carefully select their courses. Secondary education students can complete two years of study at FVCC in most majors. There are a few courses, listed below, that all secondary education majors must typically take before entrance into a teacher education program their junior year. Additionally, by seeking an associate's degree from FVCC, the general education core for all MUS colleges and universities will have been completed before transfer.

I. Required for most Secondary Education Majors

✔	Course	#	Title	Credits
___	EDU	201	Introduction to Education with Field Experience	3
___	EDU	270	Instructional Technology	3
___	HEE	233	Health Issues of Children and Adolescents	3
___	PSYX	100A	Introduction to Psychology	4
___	PSYX	230A*	Developmental Psychology	3

II. Major/Minor Requirements in a Certifiable Area
See transfer school catalog and consult with your advisor for specific course suggestions. Suggested course outlines are shown below for common secondary teaching majors.

III. For elementary and secondary education
The University of Great Falls offers the following education courses at FVCC on a two-year rotation:

✔	Course	#	Title	Credits
___	EDU	260	Multicultural Education	2
___	EDU	284	Cognitive Psychology Applied to Learning	4
___	EDU	315	Assessment of Learning	3
___	EDU	338	Teaching Reading in the Content Area	2
___	EDU	430	Secondary Teaching Procedures	3
___	EDU	462	Pre-professional Integrative Experience (Elementary School)	2
___	EDU	472	Pre-professional Integrative Experience (Middle School)	2
___	EDU	482	Pre-professional Integrative Experience (High School)	2
___	EDU	489	Elementary/Secondary Education Internship Seminar	2
___	EDU	490	Secondary Internship	10

Most UGF curriculums are more than the 60 credits required for the AA or AS degree and few students could complete this curriculum in two years. This is because UGF is generous in accepting FVCC credits and has additional general education credits. Students who wish to earn a UGF degree must meet UGF residency requirements (number of UGF credits delivered to our campus or online) in the major. Please see the UGF catalog for details. Students applying only for licensure in a major should contact the UGF Education Department in Great Falls to determine if a specialized plan of study is appropriate.

*Indicates prerequisite and/or corequisite needed. Check course description.

Secondary Education – Art

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	ARTZ	105F	Visual Language-Drawing	3
___	ARTZ	106F	Visual Language 2-D Foundations	3
___	ARTZ	108F*	Visual Language 3-D Foundations	3
___	ARTZ	231F	Ceramics I	3
___	ARTZ	232*	Ceramics Studio: Personal Techniques	3
___	EDU	201	Introduction to Education with Field Experience	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C), Humanities (H), Social Sciences (A or B), or WRIT 201W*	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
			First Year Total	**34**

Second Year

✔	Course	#	Title	Credits
___	ARTH	200FGH	Art of World Civilization I	3
___	ARTH	201FGH	Art of World Civilization II	3
___	ARTZ	212*	Drawing Studio: Personal Style	3
___	ARTZ	221F	Painting I	3
___	ARTZ	222*	Painting Studio: Composition	3
___	HEE	233	Health Issues of Children and Adolescents	3
___	_____	____	NASX 105G or NASX 232G	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**30**
			Total Credits	**64**[1]

[1] If time allows, students could take EDU 221* and EDU 270.

*Indicates prerequisite and/or corequisite needed. Check course description.

Advisor:
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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Secondary Education – Biology

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	CHMY	121NL*	Introduction to General Chemistry	4
___	CHMY	123NL*	Introduction to Organic and Biochemistry	4
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	M 162M* or M 171M*	5
___	_____	____	NASX 105G or NASX 232G	3
			First Year Total	**35**

Second Year

✔	Course	#	Title	Credits
___	BIOB	260NL*	Cellular and Molecular Biology	5
___	BIOB	275N*	General Genetics	4
___	EDU	201	Introduction to Education with Field Experience	3
___	HEE	233	Health Issues of Children and Adolescents	3
___	PHSX	205NL*	College Physics I	5
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Communications (C) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**33**
			Total Credits	**68**[1]

[1] If time allows, students could take EDU 221* and EDU 270.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisor:
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Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Secondary Education – Business and Information Technology Education

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	BGEN	235	Business Law	4
___	BMIS	211*	Introduction to Business Decision Suport	4
___	COMX	111C	Introduction to Public Speaking	3
___	ECNS	201B	Principles of Microeconomics	3
___	ECNS	202GB	Principles of Macroeconomics	3
___	EDU	201	Introduction to Education with Field Experience	3
___	M	115M*	Probability and Linear Mathematics	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
___	_____	____	NASX 105G or NASX 232G	3
			First Year Total	**35**

Second Year

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	ACTG	202*	Principles of Managerial Accounting	4
___	BMIS	270*	MIS Foundations for Business	3
___	HEE	233	Health Issues of Children and Adolescents	3
___	PSYX	100A	Introduction to Psychology	4
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
			Second Year Total	**31**
			Total Credits	**66**[1]

[1] If time allows, students could take EDU 221*and EDU 270.

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Secondary Education – English

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	EDU	201	Introduction to Education with Field Experience	3
___	LIT	210H	American Literature I	3
___	LIT	211H	American Literature II	3
___	LIT	223H	British Literature I	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	CRWR 111F, CRWR 211* or LIT 120H	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
			First Year Total	**31**

Second Year

✔	Course	#	Title	Credits
___	EDU	221*	Educational Psychology and Measurement	3
___	EDU	270	Instructional Technology	3
___	HEE	233	Health Issues of Children and Adolescents	3
___	LIT	224H	British Literature II	3
___	LIT	225H	Shakespeare: Tragedy and Comedy	3
___	LIT	226H	Shakespeare: History and Tragedy	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	NASX 105G or NASX 232G	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**30**
			Total Credits	**61**

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Associate of Arts Degree

Suggested course of study for a transfer to the
University of Great Falls:

First Year

✔	Course	#	Title	Credits
___	CAPP	120	Introduction to Computers	3
___	COMX	111C	Introduction to Public Speaking	3
___	CRWR	110F*	Beginning Fiction	3
___	EDU	201	Introduction to Education with Field Experience	3
___	LIT	110H	Introduction to Literature	3
___	LIT	211H	American Literature II	3
___	M	115M*	Probability and Linear Mathematics[4]	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Fine Arts (F) Requirement[1]	3
___	_____	____	Natural Science (NL) Requirement[2]	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	EDSP	204	Introduction to Teaching Exceptional Learners	3
___	EDU	270	Instructional Technology[3]	3
___	LIT	224H	British Literature II	3
___	PSYX	100A	Introduction to Psychology	4
	or			
___	SOCI	101A	Introduction to Sociology	3
___	STAT	216M*	Introduction to Statistics[4]	4
___	WRIT	201W*	College Writing II	3
___	_____	____	Elective	3
___	_____	____	Natural Science (N or NL) Requirement	3
___	_____	____	RLST 100G or RLST 220G	3
___	_____	____	Social Sciences (B) Requirement	3-4
			Second Year Total	**31-32**
			Total Credits	**61-63**

[1] CRWR 110F and an additional Fine Arts course are both required.
[2] GPHY 111NL is not an acceptable Lab Science for UGF.
[3] Students should take this class near the end of their AA completion.
[4] Students could take M 145Q* and then a statistics class through UGF on-line instead.

Most UGF curriculums are more than the 60 credits required for the AA or AS degree and few students could complete this curriculum in two years. This is because UGF is generous in accepting FVCC credits and has additional general education credits. Students who wish to earn a UGF degree must meet UGF residency requirements (number of UGF credits delivered to our campus or online) in the major. Please see the UGF catalog for details. Students applying only for licensure in a major should contact the UGF Education Department in Great Falls to determine if a specialized plan of study is appropriate.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Secondary Education – General Science Broadfield

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	CHMY	141NL*	College Chemistry I	5
___	CHMY	143NL*	College Chemistry II	5
___	EDU	201	Introduction to Education with Field Experience	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	M 162M* or M 171M*	5
___	_____	____	PHSX 205NL* or PHSX 210NL*	5-6
___	_____	____	Social Sciences (B) Requirement	3
			First Year Total	**45-46**

Second Year

✔	Course	#	Title	Credits
___	BIOB	260NL*	Cellular and Molecular Biology	5
___	BIOB	275N*	General Genetics	4
___	CHMY	123NL*	Introduction to Organic and Biochemistry	4
___	GEO	101NL	Introduction to Physical Geology	4
___	HEE	233	Health Issues of Children and Adolescents	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Communications (C) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	NASX 105G or NASX 232G	3
___	_____	____	PHSX 207NL* or PHSX 212NL*	5-6
			Second Year Total	**38-39**
			Total Credits	**83-85**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Associate of Science Degree

Suggested course of study for a transfer to
Montana State University – Northern:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	BIOO	105NL	Introduction to Botany	3
___	CHMY	141NL*	College Chemistry I	5
___	CHMY	143NL*	College Chemistry II	5
___	COMX	111C	Introduction to Public Speaking	3
___	EDU	201	Introduction to Education with Field Experience	3
___	PHSX	205NL*	College Physics I	5
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Mathematics (M) Requirement	3
			First Year Total	**37**

Second Year

✔	Course	#	Title	Credits
___	EDU	270	Instructional Technology	3
___	GEO	100NL	Introduction to Earth Science	4
___	GEO	101NL	Introduction to Physical Geology	4
___	HEE	233	Health Issues of Children and Adolescents	3
___	NASX	105G	Introduction to Native American Studies	3
___	PHSX	207NL*	College Physics II	5
___	PSYX	100A	Introduction to Psychology	4
___	PSYX	230A*	Developmental Psychology	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**35**
			Total Credits	**72**

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Secondary Education – Government

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	EDU	201	Introduction to Education with Field Experience	3
___	EDU	270	Instructional Technology	3
___	HEE	233	Health Issues of Children and Adolescents	3
___	PSCI	210B	Introduction to American Government	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	NASX 105G or NASX 232G	3
___	_____	____	Natural Science (NL) Requirement	3
			First Year Total	**33**

Second Year

✔	Course	#	Title	Credits
___	EDU	221*	Educational Psychology and Measurement	3
___	PSCI	250HB	Introduction to Political Theory	3
___	PSYX	100A	Introduction to Psychology	4
___	_____	____	Communications (C), Humanities (H) or Social Sciences (A or B) Requirement	3
___	_____	____	Electives	2
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
			Second Year Total	**30**
			Total Credits	**63**

*Indicates prerequisite and/or corequisite needed.
Check course description.

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Secondary Education – History

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana - Missoula:

First Year

✔	Course	#	Title	Credits
___	EDU	201	Introduction to Education with Field Experience	3
___	HEE	233	Health Issues of Children and Adolescents	3
___	HSTA	101B	American History I	4
___	HSTA	102B	American History II	4
___	WRIT	101W*	College Writing I	3
___	_____	____	HSTR 101B or HSTR 102B	4
___	_____	____	NASX 105G or NASX 232G	3
___	_____	____	Humanities (H) Requirement[1]	3
___	_____	____	Natural Science (NL) Requirement	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	EDU	221*	Educational Psychology and Measurement	3
___	EDU	270	Instructional Technology	3
___	HSTA	255B	Montana History	3
___	PSYX	100A	Introduction to Psychology	4
___	_____	____	Communications (C) Requirement	3
___	_____	____	Fine Arts (F) Requirement[1]	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Electives	3
			Second Year Total	**31**
			Total Credits	**61**

[1] An art history course is preferred for one of these requirements.

*Indicates prerequisite and/or corequisite needed.
Check course description.

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Secondary Education – Mathematics

Associate of Science Degree

Suggested course of study for transfer to the
University of Great Falls:

First Year

✔	Course	#	Title	Credits
___	CAPP	120	Introduction to Computers	3
___	COMX	111C	Introduction to Public Speaking	3
___	EDU	201	Introduction to Education with Field Experience	3
___	LIT	110H	Introduction to Literature	3
___	M	171M*	Calculus I	5
___	M	172M*	Calculus II	5
___	PSYX	100A	Introduction to Psychology	4
	or			
___	SOCI	101A	Introduction to Sociology	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Natural Science (NL) Requirement[1]	3-4
			First Year Total	**34-36**

Second Year

✔	Course	#	Title	Credits
___	EDSP	204	Introduction to Teaching Exceptional Learners	3
___	EDU	270	Instructional Technology[2]	3
___	M	221M*	Introduction to Linear Algebra	4
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	201W*	College Writing II	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	RLST 100G or RLST 220G	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**29**
			Total Credits	**63-65**

[1] GPHY 111NL is not an acceptable Lab Science for UGF.
[2] Students should take this class near the end of their AS completion.

Most all of UGF curriculums are more than the 60 credits required for the AA or AS degree and few students could complete this curriculum in two years. This is because UGF is very generous in accepting FVCC credits and has additional general education credits. Students who wish to earn a UGF degree must meet UGF residency requirements (number of UGF credits delivered to our campus or online) in the major. Please see the UGF catalog for details. Students applying only for licensure in a major should contact the UGF Education Department in Great Falls to determine if a specialized plan of study is appropriate.

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Secondary Education – Social Science Broadfield

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	EDU	201	Introduction to Education with Field Experience	3
___	EDU	270	Instructional Technology	3
___	PSCI	210B	Introduction to American Government	3
___	PSCI	250HB	Introduction to Political Theory	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	HSTR 101B or HSTR 102B	4
___	_____	____	Natural Science (NL) Requirement	3-4
___	_____	____	Social Sciences Elective[1]	3
			First Year Total	**32-33**

Second Year

✔	Course	#	Title	Credits
___	EDU	221*	Educational Psychology and Measurement	3
___	HEE	233	Health Issues or Children and Adolescents	3
___	HSTA	101B	American History I	4
___	HSTA	102B	American History II	4
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	NASX 105G or NASX 232G	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences Electives[1]	6
			Second Year Total	**35**
			Total Credits	**67-68**

[1] Nine credits of Social Sciences electives from the following disciplines: Economics, Geography, Psychology or Sociology.

*Indicates prerequisite and/or corequisite needed.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Associate of Arts Degree

Suggested course of study for a transfer to
Montana State University – Bozeman:

First Year

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	3
___	EDU	201	Introduction to Education with Field Experience	3
___	HSTR	101B	Western Civilization I	4
___	HSTR	102B	Western Civilization II	4
___	NASX	232G	Montana Indians: Cultures, Histories, Current Issues	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
			First Year Total	**33**

Second Year

✔	Course	#	Title	Credits
___	EDU	270	Instructional Technology	3
___	GPHY	141GA	Geography of World Regions	3
___	HSTA	101B	American History I	4
___	HSTA	102B	American History II	4
___	PSCI	210B	Introduction to American Government	3
___	PSYX	230A*	Developmental Psychology	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	PSCI, PSYX or SOCI Elective	3
			Second Year Total	**32**
			Total Credits	**65**

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Secondary Education – Broadfield Social Studies / History

Associate of Arts Degree

Suggested course of study for a transfer to
the **University of Great Falls:**

First Year

✔	Course	#	Title	Credits
___	CAPP	120	Introduction to Computers	3
___	EDU	201	Introduction to Education with Field Experience	3
___	GPHY	141GA	Geography of World Regions[3]	3
___	HSTA	101B	American History I	4
___	HSTR	101B	Western Civilization I	4
___	M	115M*	Probability and Linear Mathematics[5]	3
___	PSCI	210B	Introduction to American Government[3]	3
___	PSYX	100A	Introduction to Psychology[2]	4
___	SOCI	101A	Introduction to Sociology[2]	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Natural Science (NL) Requirement[1]	3
___	_____	____	RLST 100G or RLST 220G	3
			First Year Total	**42**

Second Year

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	3
___	EDSP	204	Introduction to Teaching Exceptional Learners	3
___	EDU	270	Instructional Technology[4]	3
___	HSTA	102B	American History II	4
___	HSTA	255B	Montana History	3
___	HSTR	102B	Western Civilzation II	4
___	LIT	110H	Introduction to Literature	
	or			
___	PHL	101H	Introduction to Philosophy: Reason and Reality	3
___	NASX	232G	Montana Indians: Cultures, Histories, Current Issues	3
___	PSYX	230A*	Developmental Psychology[3]	3
___	SOCI	201	Social Problems	3
___	STAT	216M*	Introduction to Statistics[5]	4
___	WRIT	201W*	College Writing II	3
___	_____	____	Natural Science (NL or N) Requirement	3
			Second Year Total	**45**
			Total Credits	**87**

[1] GPHY 111NL is not an acceptable Lab Science course for UGF.
[2] Only one of these is required for a History only major.
[3] Not required for a History only major.
[4] Students should take this class near the end of their AA completion.
[5] Students can take M145Q* and a Stats class through UGF on-line instead.

Most UGF curriculums are more than the 60 credits required for the AA or AS degree and few students could complete this curriculum in two years. This is because UGF is generous in accepting FVCC credits and has additional general education credits. Students who wish to earn a UGF degree must meet UGF residency requirements (number of UGF credits delivered to our campus or online) in the major. Please see the UGF catalog for details. Students applying only for licensure in a major should contact the UGF Education Department in Great Falls to determine if a specialized plan of study is appropriate.

*Indicates prerequisite and/or corequisite. Check course description.

Engineering
Transfer Curricula

The Engineering transfer program at FVCC provides a full range of freshman and sophomore level classes to prepare students transferring to a wide variety of engineering programs at **Montana State University – Bozeman** and **Montana Tech of The University of Montana.** The advantages of small class size, individual attention, and a knowledgeable professional staff provide a solid foundation for transfer, allowing students to transfer with junior status. Curricula can be adjusted to meet similar requirements for other institutions.

Montana State University – Bozeman offers programs in bio-resources, chemical, civil, computer, construction technology, electrical, industrial, and mechanical engineering.

Montana Tech of The University of Montana offers programs in engineering science, environmental, general, geological, geophysical, metallurgical, mining, and petroleum engineering.

Surveying and civil engineering are closely related fields, and FVCC provides an excellent opportunity to begin pursuing both professional licenses at the same time. Contact either the surveying advisor or engineering advisor for more information.

As programs emerge and evolve, it is important to consult with an advisor to keep abreast of changes and to register for classes in the proper order.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Associate of Science Degree

Suggested course of study for fulfilling the College of Engineering Major and Core Requirements at **Montana State University - Bozeman:**

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	141NL*	College Chemistry I[1]	5
___	COMX	111C	Introduction to Public Speaking	3
___	EGEN	105	Introduction to General Engineering	1
___	M	171M*	Calculus I[2]	5
___	WRIT	101W*	College Writing I	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	M	172M*	Calculus II [2]	5
___	PHSX	210NL*	General Physics I [3]	6
___	_____	____	Additional Engineering Requirements **	3+
___	_____	____	Social Sciences (A) Requirement	3
			Second Semester Total	**17+**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	M	273M*	Multivariable Calculus[2]	5
___	PHSX	212NL*	General Physics II[3]	6
___	_____	____	Additional Engineering Requirements **	3+
___	_____	____	Humanities (H) Requirement	3
			First Semester Total	**17+**

Spring Semester

✔	Course	#	Title	Credits
___	M	274M*	Introduction to Differential Equations[2]	5
___	_____	____	Additional Engineering Requirements **	3+
___	_____	____	Global Issues (G) Requirement[4,5]	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement[4,6]	3
			Second Semester Total	**17+**
			Total Credits	**68+**

[1] Not required for computer engineering majors.
[2] Construction engineering students should take two semesters of calculus and STAT 216M*. Mechanical engineering technology majors need to have taken at least M 153M*.
[3] Construction engineering technology, and mechanical engineering technology majors could take PHSX 205NL* and PHSX 207NL* instead.
[4] Construction Engineering Technology students should take ECNS 101B and ECNS 202GB for these general education categories.
[5] Civil Engineering students should take ECNS 202GB as their Global Issues requirement.
6 Civil Engineering students should take ECNS 101B or PSCI 210B.

*Indicates prerequisite and/or corequisite needed. Check course description.

** See page 82 through 83 for additional courses.

**Additional courses for Bioengineering (MSU):

___	BCH	280N*	Biochemistry	3
___	BCH	281L*	Biochemistry Lab	2
___	BIOB	160NL	Principles of Living Systems	4
___	BIOM	260N*	General Microbiology	3
___	BIOM	261L*	General Microbiology Lab	2
___	CHMY	143NL*	College Chemistry II	5
___	CHMY	221NL*	Organic Chemistry I	5
___	EGEN	102*	Introduction to Engineering Computer Applications	2

**Additional courses for Chemical Engineering (MSU):

___	BCH	280N*	Biochemistry	3
___	BCH	281L*	Biochemistry Lab	2
___	CHMY	143NL*	College Chemistry II	5
___	CHMY	221NL*	Organic Chemistry I	5
___	CHMY	223NL*	Organic Chemistry II	5
___	EGEN	102*	Introduction to Engineering Computer Applications	2

**Additional courses for Civil Engineering (MSU):

___	CHMY	143NL*	College Chemistry II	5
___	EGEN	102*	Introduction to Engineering Computer Applications	2
___	EGEN	115	Engineering Graphics[1]	3
___	EGEN	201*	Engineering Mechanics-Statics	4
___	EGEN	202*	Engineering Mechanics-Dynamics	4
___	EGEN	205*	Mechanics of Materials	4
___	GEO	101NL	Introduction to Physical Geology	4
___	SRVY	241*	Introduction to Surveying for Land Surveyors I	5
___	WRIT	121C*	Introduction to Technical Writing	
	or			
___	WRIT	122C*	Introduction to Business Writing	
	or			
___	WRIT	201W*	College Writing II	3

**Additional courses for Computer Engineering (MSU):

___	CSCI	111	Programming with Java I	4
___	CSCI	113*	Programming with C++ I	4
___	CSCI	121*	Programming with Java II	4
___	EELE	101*	Introduction to Electrical Fundamentals	2

[1]DDSN 135 is recommended if not covered in this class

*Indicates prerequisite and/or corequisite needed.
Check course description.

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**Additional courses for Construction Engineering Technology (MSU):

___	ACTG	201	Principles of Financial Accounting	4
___	EGEN	115	Engineering Graphics[1]	3
___	GEO	101NL	Introduction to Physical Geology	4
___	SRVY	241*	Introduction to Surveying for Land Surveyors I	5
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	122C*	Introduction to Business Writing	3

**Additional courses for Electrical Engineering (MSU):

___	ACTG	201	Principles of Financial Accounting	4
___	ACTG	202*	Principles of Managerial Accounting	4
___	CSCI	111	Programming with Java I	4
___	CSCI	113*	Programming with C++ I	4
___	EELE	101*	Introduction to Electrical Fundamentals	2
___	EGEN	201*	Engineering Mechanics-Statics	4

**Additional courses for Industrial and Management Engineering (MSU):

___	CSCI	111	Programming with Java I	4
___	CSCI	113*	Programming with C++ I	4
___	EELE	101*	Introduction to Electrical Fundamentals	2
___	EGEN	201*	Engineering Mechanics-Statics	4
___	EGEN	202*	Engineering Mechanics-Dynamics	4
___	EGEN	205*	Mechanics of Materials	4

**Additional courses for Mechanical Engineering (MSU):

___	EELE	101*	Introduction to Electrical Fundamentals	2
___	EELE	201*	Circuits I for Engineering	4
___	EGEN	102*	Introduction to Engineering Computer Applications[1]	2
___	EGEN	201*	Engineering Mechanics-Statics	4
___	EGEN	202*	Engineering Mechanics-Dynamics	4
___	EGEN	205*	Mechanics of Materials	4

**Additional courses for Mechanical Engineering Technology (MSU):

___	CSCI	111	Programming with Java I	4
___	EGEN	102*	Introduction to Engineering Computer Applications	2
___	EGEN	205*	Mechanics of Materials	4
___	WRIT	122C*	Introduction to Business Writing	3

[1]DDSN 135 is recommended if not covered in this class

*Indicates prerequisite and/or corequisite needed.
Check course description.

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Associate of Science Degree

Suggested course of study for fulfilling the School of Mines and Engineering Major and Core Requirements at **Montana Tech of The University of Montana:**

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	141NL*	College Chemistry I	5
___	EGEN	105	Introduction to General Engineering	1
___	M	171M*	Calculus I	5
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	CHMY	143NL*	College Chemistry II	5
___	M	172M*	Calculus II	5
___	PHSX	210NL*	General Physics I	6
___	_____	____	Additional Engineering Requirements**	4
			Second Semester Total	**20**

Summer Semester

✔	Course	#	Title	Credits
___	ECNS	201B	Principles of Microeconomics	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			Third Semester Total	**9**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	EGEN	201*	Engineering Mechanics-Statics	4
___	M	273M*	Multivariable Calculus	5
___	PHSX	212NL*	General Physics II	6
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			First Semester Total	**18**

Spring Semester

✔	Course	#	Title	Credits
___	ECNS	202GB	Principles of Macroeconomics	3
___	EGEN	205*	Mechanics of Materials [1]	4
___	M	274M*	Introduction to Differential Equations	5
___	_____	____	Additional Engineering Requirements**	4
			Second Semester Total	**16**
			Total Credits	**80**

[1]Not required for geophysical, civil, or welding engineering options.

*Indicates prerequisite and/or corequisite needed.
Check course description.

**Additional courses for Environmental Engineering (MT Tech of The University of Montana):

___	BIOB	160NL	Principles of Living Systems	4
___	BIOE	172N*	Introductory Ecology	3
___	BIOE	173L*	Introductory Ecology Laboratory	1
___	GEO	101NL	Introduction to Physical Geology	4
___	STAT	216M*	Introduction to Statistics	4

**Additional courses for General Engineering (MT Tech of The University of Montana):

___	EGEN	202*	Engineering Mechanics-Dynamics	4
___	GEO	101NL	Introduction to Physical Geology[2]	4
___	M	221M*	Introduction to Linear Algebra[3]	4

[2] Only required for the Civil Engineering option.
[3] In the general engineering area, students who select the "no option" or mechanical engineering option should take M 221M*, while those in the Civil Engineering or Welding Engineering options should take STAT 216M* instead.

**Additional courses for Geophysical Engineering (MT Tech of The University of Montana):

___	CSCI	113*	Programming with C++ I	4
___	EGEN	202*	Engineering Mechanics-Dynamics	4
___	M	221M*	Introduction to Linear Algebra	4

**Additional courses for Mining Engineering (MT Tech of The University of Montana):

___	EGEN	202*	Engineering Mechanics-Dynamics	4

** Additional courses for Petroleum Engineering (MT Tech of The University of Montana):

____	EGEN	202*	Engineering Mechanics-Dynamics	4
___	GEO	101NL	Introduction to Physical Geology	4

** Additional courses for Electrical Engineering (MT Tech of The University of Montana):

____	EGEN	202*	Engineering Mechanics-Dynamics	4
____	STAT	216M*	Introduction to Statistics	4

** Additional courses for Metallurgical and Materials Engineering (MT Tech of The University of Montana):

____	STAT	216M*	Introduction to Statistics	4

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

English
Transfer Curricula

Students who study English pursue high school teaching careers or complete graduate-level programs to become journalists, lawyers, creative writers, business professionals, public relations and advertising specialists, or college professors. Some students also study English to gain critical insight, to enrich their lives, to improve their proficiency in the language or to express creativity. Completion of the following courses results in an associate degree and fulfills the lower division general core requirements at **The University of Montana - Missoula** and many other four-year institutions.

English majors have the following options to pursue: literature, creative writing, English linguistics, and English teaching (see Education section in this catalog).

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	LIT	210H	American Literature I	3
___	LIT	211H	American Literature II	3
___	LIT	226H	Shakespeare: History and Tragedy	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Electives	3
___	_____	____	English Elective	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	LIT	223H	British Literature I	3
___	LIT	224H	British Literature II	3
___	LIT	225H	Shakespeare: Tragedy and Comedy	3
___	_____	____	Electives**	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	CHIN 101GH and CHIN 102GH* or FRCH 101GH & FRCH 102GH* or GRMN 101GH & GRMN 102GH* or ITLN 101GH & ITLN 102GH* or RUSS 101GH & RUSS 102GH* or SPNS 101GH & SPNS 102GH*	10
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**31**
			Total Credits	**61**

**Recommended electives for the Creative Writing Option:

___	CRWR	110F*	Beginning Fiction	3
___	CRWR	111F	Beginning Poetry	3
___	LIT	120H	Poetry	3

**Recommended elective for the Linguistics Option:

___	LING	270	Introduction to Linguistics	3

** Recommended electives for Literature Option:

___	LIT	110H	Introduction to Literature	3
___	LIT	112H	Introduction to Fiction	3
___	LIT	206GH*	European Literature of the 20th Century	3
___	LIT	240H	Bible as Literature	3
___	LIT	285H	Mythologies	3
___	LIT	286GH	Comparative Mythology	3
___	THTR	235H	Dramatic Literature	3

*Indicates prerequisite and/or corequisite needed. Check course description.

Advisors:

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Environmental Biology
Transfer Curricula

Environmental Biology is a growing field as Americans see the need to clean up the environment and conserve clean water, a resource that we always assumed had an infinite supply. Studying Environmental Biology gives the student a solid understanding of the processes used in Chemistry, Biology, and Microbiology for applications in land, water, and other natural resources. This transfer program is the foundation for a four-year degree which then provides a good foundation for jobs in private environmental industries that address problems associated with disturbed environments, government jobs in environmental management and policy, or for graduate research.

Associate of Science Degree

Suggested course of study for a transfer to
Montana State University - Bozeman:

First Year

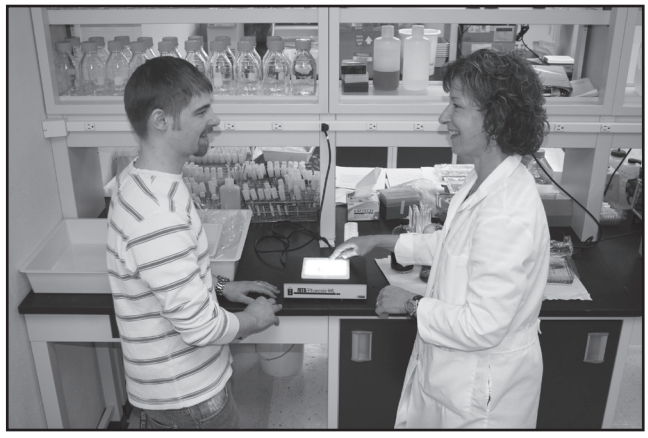
✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	CHMY	141NL*	College Chemistry I	5
___	CHMY	143NL*	College Chemistry II	5
___	M	162*	Applied Calculus	
	or			
___	M	171M*	Calculus I	5
___	NRSM	101	Natural Resource Conservation	3
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	101W*	College Writing I	3
			First Year Total	**34**

Second Year

✔	Course	#	Title	Credits
___	BIOB	275N*	General Genetics	4
___	ECNS	101B	Economic Way of Thinking	3
___	ENSC	245NL	Soils	4
___	PHSX	205NL*	College Physics I	5
___	WRIT	201W	College Writing II	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			Second Year Total	**34**
			Total Credits	**68**

*Indicates prerequisite and/or corequisite needed.
Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.



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Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Environmental Science
Transfer Curricula

The Environmental Science program at **The University of Montana - Western** is designed to prepare students to face the challenges and diverse career opportunities that exist within the broad discipline of the environmental sciences. Career opportunities include gaining employment in consulting firms, private industry, and state or federal agencies.

Students majoring in Environmental Science at **The University of Montana – Western** must select a related area to compliment their major. These related areas include, biology, geology, environmental, interpretation, wildlands management, wildlife biology, sustainable natural resource management and environmental geochemistry. The environmental interpretaion option does not require calculs or physics so those students should take other science courses instead. Any stduent considering graduate school should take more math and PHSX 212 at FVCC as electives.

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Western:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	141NL*	College Chemistry I[1]	5
___	CHMY	143NL*	College Chemistry II[1]	5
___	M	115M*	Probabililty and Linear Mathematics[2]	3
	or			
___	M	171M*	Calculus I[2]	5
___	PHSX	210NL*	General Physics I[3] or other science electives[2]	6
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**29-31**

Second Year

✔	Course	#	Title	Credits
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Communications (C) Requirement[3]	3
___	_____	____	Electives**	12
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences A Requirement[4]	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**31**

Total Credits **60-62**

[1] Not required for Environmental Interpretation option. Take GEO 101NL, BIOB 170N*, and BIOB 171L* instead.
[2]For Environmental Interpretation option only.
[3]Environmental Interpretation students must take COMX 111C.
[4]Environmental Interpretation students must take PSYX 100A.
*Indicates prerequisite and/or corequisite needed. Check course description.

**Depending on which related area you choose to pursue, the following electives may be worthwhile to take at FVCC:

___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	BIOM	260N*	General Microbiology	3
___	BIOO	105NL	Introduction to Botany	3
___	BIOO	262NL*	Introduction to Entomology	3
___	CHMY	221NL*	Organic Chemistry I	5
___	CHMY	223NL*	Organic Chemistry II	5
___	M	172M*	Calculus II	5
___	M	221M*	Introduction to Linear Algebra	4
___	M	273M*	Multivariable Calculus	5
___	PHSX	212NL*	General Physics II	6

Environmental Studies
Transfer Curricula

The Environmental Studies program at **The University of Montana - Missoula** seeks to provide students with the literacy, skills, and commitment needed to foster a healthy natural environment and to create a more sustainable, equitable, and peaceful society. Graduates of this program will become knowledgeable and active in environmental affairs.

Students majoring in Environmental Studies at **The University of Montana - Missoula** may pursue an emphasis in environmental management, pre-law, or water resources.

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	BIOO	235NL	Rocky Mountain Flora	3
___	CHMY	121NL*	Introduction to General Chemistry	4
___	ENSC	105NL	Environmental Science	4
___	M	115M*	Probability and Linear Mathematics	3
___	WRIT	101W*	College Writing I	3
___	_____	___	Electives[1, 2]	9
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			First Year Total	**32**

Second Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
	or			
___	BIOB	170N*	Principles of Biological Diversity	3
	and			
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	NASX	105G	Introduction to Native American Studies	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Communications (C) Requirement	3
___	_____	____	Electives[1, 2]	10
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**30-31**

Total Credits **62-63**

[1]Students pursuing the environmental management emphasis should take the following courses as their electives:

___	ACTG	201	Principles of Financial Accounting	4
___	ACTG	202*	Principles of Managerial Accounting	4
___	BGEN	235	Business Law	4
___	BMIS	270*	MIS Foundations for Business	3

[2]Students not pursuing the enviromental management option, suggested electives are:

___	BIOO	105NL	Introduction to Botany	3
___	BIOO	115N	Practical Botany	3
___	ENSC	245NL	Soils	4
___	ENSC	272	Water Resources	4
___	GEO	101NL	Introduction to Physical Geology	4

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Forensic Science
Transfer Curricula

Forensic Science applies science to civil and criminal proceedings. A profession working in a crime lab and/or processing evidence at crime scenes is one aspect of forensic science. A Bachelor of Science degree in a science discipline is required to apply for work in a crime lab. In Montana, **The University of Montana - Missoula** offers a degree in Forensic Chemistry, with students having work study and internship options with the State of Montana Crime Laboratory in Missoula. **The University of Great Falls** offers degrees at their Great Falls location in Forensic Science, Forensic Biology, and Forensic Chemistry. They are also connected with internship opportunities for students. Eastern Washington University also offers a Forensic Chemistry degree with connections to the State of Washington Crime Lab(s). Students who wish to work in either the toxicology or controlled substances or chemistry sections of a crime lab will need a Bachelor of Science degree in Chemistry or Forensic Chemistry. Students who wish to work in the serology or DNA section of a crime lab will need a Biology or Forensic Biology degree.

Associate of Science Degree

Suggested course of study for a transfer to **The University of Montana – Missoula:**

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	141NL*	College Chemistry I [1, 2]	5
___	M	171M*	Calculus I [1, 2]	5
___	WRIT	101W*	College Writing I	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	CHMY	143NL*	College Chemistry II	5
___	COMX	111C	Introduction to Public Speaking	3
___	M	172M*	Calculus II	5
___	PHSX	205NL*	College Physics I[1, 2]	5
			Second Semester Total	**18**

Summer Semester

✔	Course	#	Title	Credits
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Third Semester Total	**9**

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	221NL*	Organic Chemistry I	5
___	CHMY	280NL*	Forensic Science I	4
___	CJUS	121A	Introduction to Criminal Justice	3
___	PHSX	207NL*	College Physics II[1, 2]	5
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Laboratory	2
___	CHMY	221NL*	Organic Chemistry I	5
___	CHMY	282NL*	Forensic Science II	4
___	_____	____	Fine Arts (F) or Humanities (H) Requirement	3
			Second Semester Total	**17**

Total Credits **78**

[1] Forensic Biology to UGF: substitute BIOM 250NL*, BIOB 272N* for M 172M* and the Physics courses.
[2] Forensic Science to UGF: substitute STAT 216M*, CJUS 200 and CJUS 231* for M 172M* and the Physics courses.

*Indicates prerequisite and/or corequisite needed. Check course description.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Forestry
Transfer Curricula

Students who intend to seek a career in Forestry can complete most of the first two pre-professional years of study at FVCC to ready themselves for the junior year at **The University of Montana - Missoula**. UM's College of Forestry and Conservation prepares graduates for professions as forest and land managers who deal with production of forest-based goods, recreation, timber, water, range, and wildlife issues.

Natural Resources Conservation and Management classes at FVCC emphasize interaction with practicing professionals, and students have ample opportunity to observe field management situations. Most courses have strong field trip components. There is an increasing emphasis on the understanding and use of high technology such as Global Positioning Systems (GPS) and Geographic Information Systems (GIS). Students planning to enter this program should attain a sound high school level background in English, social studies, mathematics, biology, and other sciences. Those lacking such proficiencies should plan for additional preparation before taking the required courses. Close consultation with a Forestry or Natural Resources advisor is necessary and students are urged to solicit the advisor's help at all times.

Associate of Science Degree

Suggested course of study for a transfer to **The University of Montana – Missoula** for students majoring in Forestry:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	M	152M*	Precalculus Algebra	4
___	NRSM	161*	Natural Resource Measurements I	5
___	SRVY	135	Field Surveying/Global Positioning System Introduction	5
___	WRIT	101W*	College Writing I	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BIOO	105NL	Introduction to Botany	3
___	ECNS	201B	Principles of Microeconomics	3
___	ENSC	245NL	Soils	4
___	M	153M*	Precalculus Trigonometry	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			Second Semester Total	**19**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	121NL*	Introduction to General Chemistry	4
___	FORS	272	Inventorying for Adaptive Management and Restoration	4
___	M	162M*	Applied Calculus	5
___	SRVY	233	Introduction to GIS for Natural Resource Assessment[1]	4
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	3
___	FORS	152	Sustainable Silviculture[1]	4
___	FORS	251*	Photogrammetry and Remote Sensing	3
___	WILD	270N	Wildlife Habitat and Conservation	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			Second Semester Total	**19**

Total Credits **72****

[1] If pursuing the Forest Operations and Applied Restoration or Wildland Restoration options.
[2]If pursuing the Applied Forest Operations and Applied Restoration of Wildland Restoration Options.

*Indicates prerequisite and/or corequisite needed. Check course description.

**If time permits, to further broaden their educational experience, students may consider taking the following courses:

___	BIOO	235NL	Rocky Mountain Flora	3
___	ENSC	272	Water Resources	4
___	PHSX	205NL*	College Physics I[2]	5
___	SRVY	245*	GPS Mapping	2

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Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula
in Resource Conservation:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	NRSM	161*	Natural Resource Measurements I	5
___	SRVY	135	Field Surveying/Global Positioning System Introduction	5
___	WRIT	101W*	College Writing I	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BIOE	172N*	Introductory Ecology	3
___	BIOE	173L*	Introductory Ecology Laboratory	1
___	COMX	111C	Introduction to Public Speaking	3
___	_____	____	Electives	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Semester Total	**13**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	121NL*	Introduction to General Chemistry	4
___	M	115M*	Probability and Linear Mathematics	3
___	_____	____	Electives	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	ENSC	245NL	Soils	4
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Electives	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			Second Semester Total	**17**
			Total Credits	**63****

*Indicates prerequisite and/or corequisite needed.
Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

**Recommended electives to further broaden students' educational experience:

___	BIOO	235NL	Rocky Mountain Flora	3
___	FORS	152	Sustainable Silviculture	4
___	FORS	232*	Forest Insects and Diseases	3
___	FORS	251*	Photogrammetry and Remote Sensing	3
___	NRSM	271GN	Conservation Ecology	3
___	SRVY	233	Introduction to GIS for Natural Resource Assessment	4
___	SRVY	245*	GPS Mapping	2
___	WILD	270N	Wildlife Habitat and Conservation	3

*Indicates prerequisite and/or corequisite needed.
Check course description.

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Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Geography
Transfer Curricula

Geography provides a broad perspective on the earth as it is inhabited and transformed by the human systems, including the land, water, air and biota living in all of these. Cultural, historical, social, economic and political structures of humans are affected by the physical Earth, and transform it as well. The interactions of the physical and human systems create a diversity of regions and places. There are many areas of specialty within the field of geography. The student is encouraged to consult the particular requirements of the transfer school in order to prepare most efficiently for ongoing coursework.

Associate of Science Degree

Suggested course of study for a transfer to
Montana State University – Bozeman:

First Year

✔	Course	#	Title	Credits
___	GEO	101NL	Introduction to Physical Geology	4
___	GPHY	111NL	Introduction to Physical Geography	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Elective[1,2]	3
___	_____	____	Elective[1,2]	3
___	_____	____	Elective[1,2]	3
___	_____	____	Mathematics (M) or Natural Science (NL or N) Requirement	3
			First Year Total	**29**

Second Year

✔	Course	#	Title	Credits
___	GPHY	121GA	Human Geography	3
___	GPHY	141GA	Geography of World Regions	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Communications (C) Requirement	3
___	_____	____	CHIN 101GH & CHIN102GH* or FRCH 101GH & FRCH 102GH* or GRMN 101GH & GRMN 102GH* or ITLN 101GH & ITLN 102GH* or RUSS 101GH & RUSS 102GH* or SPNS 101GH & SPNS 102GH*	10
___	_____	____	Electives	3
___	_____	____	Mathematics (M) or Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**32**
			Total Credits	**61**

[1]Recommended electives for the Human Geography Emphasis:

___	ECNS	201B	Principles of Microeconomics	3
___	ECNS	202GB	Principles of Macroeconomics	3
___	PSCI	210B	Introduction to American Government	3
___	SOCI	101A	Introduction to Sociology	3

[2]Recommended electives for the Physical Geography Emphasis:

___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	CHMY	141NL*	College Chemistry I	5

*Indicates prerequisite and/or corequisite needed.
Check course description.

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	GPHY	111NL	Introduction to Physical Geography	4
___	GPHY	141GA	Geography of World Regions	3
___	M	115M*	Probability and Linear Mathematics[1]	3-5
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Electives	3
___	_____	____	Electives[3]	3-4
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**29-32**

Second Year

✔	Course	#	Title	Credits
___	GPHY	121GA	Human Geography	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Natural Science (NL) Requirement[2]	3-5
___	_____	____	Natural Science (NL or N) Requirement[2]	3-5
___	_____	____	Social Sciences (B) Requirement[4]	3
			Second Year Total	**30-34**
			Total Credits	**60-66**

The University of Montana options are Physical Geography, Cartography and GIS, Community and Environmental Planning, and General Geography without option.

[1] M 162M* is required for the Physical Geography option as well as a sequential pair of science classes as noted next.
[2] Physical Geography majors have a choice of CHMY 121NL* and CHMY 123NL* or BIOO 105NL and BIOE 172N*/173L* or PHSX 205NL* and PHSX 207NL*.
[3] Cartography and GIS students should take CSCI 111.
[4] Community and Environmental option should take PSCI 212B and should take PSCI 250HB as a humanities requirement or as an elective.
*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Geology
Transfer Curricula

Geology, now often called Geoscience, involves understanding the processes and events that have formed, and continues to form, our planet. Answering the questions of how mountains were raised, rivers and ocean basins formed, and the cause of continental drift all fall within this study. Rocks, minerals, and fossils are identified and analyzed in the context of earth's evolutionary history. The contributions of water, atmosphere, and climate as erosive forces are examined as well as cataclysmic events like volcanoes and earthquakes. Professional geologists specialize in mineral and oil extraction, groundwater resources, geophysics, volcanoes and earthquakes, construction, and environmental impact studies.

Students at FVCC can take the majority of courses needed for the first two years of a bachelor degree, especially in the contributing areas of math, chemistry, and physics.

Associate of Science Degree

Suggested course of study for a transfer to
Montana State University – Bozeman:

First Year

✔	Course	#	Title	Credits
___	CHMY	141NL*	College Chemistry I	5
___	CHMY	143NL*	College Chemistry II	5
___	GEO	101NL	Introduction to Physical Geology	4
___	GPHY	111NL	Introduction to Physical Geography	4
___	M	171M*	Calculus I	5
___	M	172M*	Calculus II	5
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
			First Year Total	**34**

Second Year

✔	Course	#	Title	Credits
___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	PHSX	205NL*	College Physics I	5
___	PHSX	207NL*	College Physics II	5
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**30**
			Total Credits	**64****

[1] If pursuing the Crystallography, Mineralogy and Earth Materials Emphasis.
[2] If pursuing GIS option.

*Indicates prerequisite and/or corequisite needed.
Check course description.

**If time permits, students can take the following courses:

___	M	273M*	Multivariable Calculus [1]	5
___	M	274M*	Introduction to Differential Equations [1]	5
___	SRVY	241*	Introduction to Surveying for Land Surveyors I [2]	5
___	SRVY	283	GIS for Survey Analysis [2]	4

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	CHMY	141NL*	College Chemistry I	5
___	CHMY	143NL*	College Chemistry II	5
___	GEO	101NL	Introduction to Physical Geology	4
___	M	171M*	Calculus I	5
___	M	172M*	Calculus II[1]	5
___	WRIT	101W*	College Writing I	3
___	_____	____	PHSX 205NL* or PHSX 210NL*	5-6
			First Year Total	**32-33**

Second Year

✔	Course	#	Title	Credits
___	CSCI	111	Programming with Java I	4
___	GEO	130N	Geology of Northwest Montana	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	PHSX 207NL* or and PHSX 212NL*[2]	5-6
___	_____	____	Social Sciences (A) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**30-31**
			Total Credits	**62-64[3]**

The above curriculum is for the Bachelor of Science in Geosciences. Deviations for the Interdisciplinary options are:
[1] M 172M* is not required. May take elective credits instead.
[2] One semester of physics is required. Take BIOB 160NL or BIOB 170N* instead of the second physics course.
[3] If course load allows, take PTRM 201 if seeking the Interdisciplinary option.
*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Graphic Design
Transfer Curricula

The Graphic Design program at **Montana State University – Northern** integrates traditional visual arts education with current technology to prepare designers for both print and electronic media. Drawing, design, and painting courses provide a foundation focusing on the development of perceptual skills and visual conception abilities. Students are expected to continue to build on these skills and abilities in upper division courses. A portfolio of work will be assembled by each student as a presentation portfolio for employment purposes. Employment possibilities for those receiving a Graphic Design degree include the following: desktop publishing designer, advertising illustrator and designer, scientific illustrator, television computer graphics designer, website designer, and product or package designer.

Associate of Arts Degree

Suggested course of study for transfer to **Montana State University - Northern**:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	ARTZ	105F	Visual Language – Drawing	3
___	ARTZ	106F	Visual Language 2-D Foundations	3
___	CMPA	275	Web Development Tools: Dreamweaver	4
___	GSDN	149*	Digital Imaging I	3
___	GSDN	250	Graphic Design I	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	ARTZ	108F*	Visual Language 3-D Foundations	3
___	COMX	111C	Introduction to Public Speaking	
	or			
___	COMX	115C	Introduction to Interpersonal Communication [1]	3
___	GSDN	148	Digital Illustration I	3
___	HSTR	102B	Western Civilization II	4
___	PHOT	113F	Understanding Photography	3
___	WRIT	101W*	College Writing I	3
			Second Semester Total	**19**

Summer Semester

✔	Course	#	Title	Credits
____	_____	____	Natural Science (NL or N) Requirement	3
____	_____	____	Social Sciences (A) Requirement	3
			Third Semester Total	**6**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	ARTZ	221F	Painting I	3
___	GDSN	248*	Digital Illustration II	3
___	GDSN	249 *	Digital Imaging II	3
___	LIT	110H	Introduction to Literature	3
___	_____	____	Global Issues (G) Requirement [2]	3-5
			First Semester Total	**15-17**

Spring Semester

✔	Course	#	Title	Credits
___	CMPA	274*	Interactive Media for the Web	3
____	_____	____	Communications (C), Global Issues (G)[2], Humanities (H)[2], or Social Sciences (A or B) Requirement or WRIT 201W*	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
			Second Semester Total	**12**

Total Credits **68-70**

[1] It is recommended that students take this course during spring or summer interim.
[2] A foreign language is recommended as this program at MSU-Northern requires two semesters of the same foreign language.

*Indicates prerequisite and/or corequisite needed. Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Health and Human Performance

Transfer Curricula

The undergraduate curriculum in health and human performance at **The University of Montana – Missoula** prepares graduates to be competent entry-level professionals in health and human performance-related occupations or candidates for advanced study in related disciplines. Programs of study at **The University of Montana – Missoula** include athletic training, exercise science, and health studies. Getting accepted into the Athletic Training Education Program is very competitive.

At **Montana State University – Bozeman** the Department of Health and Human Development administers a variety of curricula that prepare students for various careers. Students may pursue a bachelor's degree in Health and Human Development with options in Community Health and Exercise Science, Family and Consumer Sciences, Food and Nutrition and Health Enhancement. Like **The University of Montana – Missoula**, graduates from **Montana State University – Bozeman** should possess the knowledge and skills to qualify for state or national certification in their specialized field of study.

Associate of Science Degree

Suggested course of study for a transfer to **Montana State University – Bozeman** in the Community Health major:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	121NL*	Introduction to General Chemistry	4
___	COMX	111C	Introduction to Public Speaking	3
___	M	115M*	Probability and Linear Mathematics	3
___	PSYX	100A	Introduction to Psychology	4
___	SOCI	101A	Introduction to Sociology	3
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**31**

Second Year

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	HTH	205	Drug Issues for Education	3
___	NUTR	221N	Basic Human Nutrition	3
___	PSCI	210B	Introduction to American Government	3
___	WRIT	201W*	College Writing II	3
___	_____	____	BIOM 250NL* or SOCI 201	3-4
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			Second Year Total	**29-30**
			Total Credits	**60-61**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Associate of Science Degree

Suggested course of study for a transfer to **The University of Montana – Missoula** in Athletic Training or Exercise Science:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	121NL*	Introduction to General Chemistry	4
___	CHMY	123NL*	Introduction to Organic and Biochemistry	4
___	COMX	111C	Introduction to Public Speaking	3
___	HEE	220	Introduction to Physical Education	3
___	HTH	110	Personal Health and Wellness	3
___	KIN	201*	Basic Exercise Prescription	3
___	M	115M*	Probability and Linear Mathematics	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
			First Year Total	**34**

Second Year

✔	Course	#	Title	Credits
___	AHAT	210*	Prevention and Care of Athletic Injuries[1]	3
	or			
___	PHSX	205NL	College Physics I[2]	5
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	201C*	College Writing II	3
___	_____	____	BIOM 250NL*[1] or NUTR 221N*[2]	3-4
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**33-36**
			Total Credits	**67-70**

[1] If pursuing Athletic Training.
[2] If pursuing Exercise Science.

*Indicates prerequisite and/or corequisite needed.
Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Associate of Science Degree

Suggested course of study for a transfer to
Montana State University – Bozeman
in Health and Human Performance:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	141NL*	College Chemistry I	5
___	CHMY	143NL*	College Chemistry II	5
___	M	162M*	Applied Calculus[1]	5
___	PHSX	205NL*	College Physics I[2]	5
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**34**

Second Year

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	NUTR	221N	Basic Human Nutrition	3
___	PHSX	207NL*	College Physics II [2]	5
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Communications (C) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**32**
			Total Credits	**66**

For those students planning on a PE/Health Education major:
[1] Take M 115M* instead of M 162M*.
[2] Take EDU 201, HTH 205 and PSYX 230A* instead.

*Indicates prerequisite and/or corequisite needed.
Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula
in Community Health or Health Enhancement:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	BIOM	250NL*	Microbiology for Health Sciences	4
___	CHMY	121NL*	Introduction to General Chemistry	4
___	HEE	220	Introduction to Physical Education	3
___	HTH	110	Personal Health and Wellness	3
___	M	115M*	Probability and Linear Mathematics	3
___	PSYX	100A	Introduction to Psychology	4
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	101W*	College Writing I	3
			First Year Total	**32**

Second Year

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	COMX	111C	Introduction to Public Speaking	3
___	ECP	100	First Aid and CPR	2
___	KIN	201*	Basic Exercise Prescription[1]	
	or			
___	AHAT	210*	Prevention and Care of Athletic Injuries[2]	3
___	NUTR	221N	Basic Human Nutrition	3
___	WRIT	201*	College Writing II	3
___	_____	____	Global Issues (G) Requirement[1] or NASX 105G[2] or NASX 232G[2]	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**34**
			Total Credits	**66**

Students pursuing the Health Enhancement Education option should take the following if course load allows:

___	EDU	201	Introduction to Education with Field Experience	3
___	EDU	221*	Educational Psychology and Measurement	3
___	EDU	270	Instructional Technology	3
___	HEE	233	Health Issues of Children and Adolescents	3
___	PSYX	230A*	Developmental Psychology	3

[1] If pursuing the Community Health option.
[2] If pursuing the Health Enhancement (PE/HLTH education)

Students in either option could take BIOE 172N* if time permits or take a 2 credit 300-level ecology course at U of M to satisfy an additional science requirement.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Associate of Science Degree

Suggested course of study for a transfer to
Montana State University – Bozeman
in Food and Nutrition (Dietetics and Nutrition Science options):

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems[1]	4
___	BIOB	170N*	Principles of Biological Diversity[1]	3
___	BIOB	171L*	Principles of Biological Diversity Lab[1]	2
___	CHMY	141NL*	College Chemistry I	5
___	CHMY	143NL*	College Chemistry II	5
___	ECNS	101B	Economic Way of Thinking[2]	3
___	PSYX	100A	Introduction to Psychology[3]	4
___	SOCI	101A	Introduction to Sociology[3]	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	M 115M* or M 162M* [4]	3-5
			First Year Total	**38-40**

Second Year

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	CHMY	221NL*	Organic Chemistry I[5,6]	5
___	CHMY	223NL*	Organic Chemistry II[5,6]	5
___	COMX	111C	Introduction to Public Speaking	3
___	NUTR	221N	Basic Human Nutrition	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			Second Year Total	**34**
			Total Credits	**72-74**

[1] Both are required for Nutrition Science, take BIOB 160NL for Dietetics.
[2] Nutrition Science students can take any Social Sciences (B) course.
[3] Both are required for Dietetics, any Social Sciences (A) course is fine for the Nutrition Science option.
[4] Required for the Nutrition Science option.
[5] Not required for Dietetics option.
Nutrition Science majors should also take the following additional courses if time permits:

___	BCH	280N*	Biochemistry	3
___	BCH	281L*	Biochemistry Lab	2
___	PHSX	205NL*	College Physics I	5
___	PHSX	207NL*	College Physics II	5

See advisor for recommendations on fulfilling these requirements.

[6] Dietetics students should take ACTG 201, BCH 280N* , BCH 281L*, and WRIT 201W* if time permits.

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Health Care Informatics

Transfer Curricula

Health Care Informatics is an emerging specialization in health care that joins the disciplines of information technology, communications, health care and business. Students in this program will find themselves key players in the constructive planning for the digital hospital of the near future. Learn to bridge the gap between those professionals entrusted to provide clinical care and those who manage the complex information systems required to operate today's health care system.
Who the program is for:

- Health care professionals who want to develop IT skills to move into health informatics.
- Health information professionals who want to gain expertise in health informatics.
- Information technology (IT) professionals who want to move into health informatics.
- Motivated individuals who are seeking a career that combines expertise in health care, IT and business.

This program is in partnership with **Montana Tech of The University of Montana's** Bachelor's degree and is the first undergraduate program in Health Care Informatics in the United States.

Associate of Science Degree

Suggested course of study for a transfer to **Montana Tech of The University of Montana:**

First Year

✔	Course	#	Title	Credits
___	AHMS	105	Health Care Delivery	3
___	AHMS	144	Medical Terminology	3
___	CAPP	131*	Basic MS Office	2
___	CAPP	158*	MS Access	3
___	CHMY	121NL*	Introduction to General Chemistry	4
___	ITS	210*	Network Operating Systems-Desktop	3
___	M	115M*	Probability and Linear Mathematics	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	WRIT	122C*	Introduction to Business Writing	3
___	_____	____	Global Issues (G) Requirement	3
			First Year Total	**34**

Second Year

✔	Course	#	Title	Credits
___	AHMS	108*	Health Data Content and Structure	3
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	BMIS	270*	MIS Foundations for Business	3
___	CAPP	156*	MS Excel	3
___	SOCI	101A	Introduction to Sociology	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**33**
			Total Credits	**67****

*Indicates prerequisite and/or corequisite needed.
Check course description.
** If time permits, students may consider taking courses in computer science program and economics as well as sit for the HIT exam. Additionally students may consider taking online HCI courses through Montana Tech of The University of Montana.

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History
Transfer Curricula

History provides a broad education in an exciting area of instruction. A degree in history prepares students for local, state or federal government service, including domestic and foreign service. A history degree also provides a background for law, journalism, management, and public relations. Graduates are employed in areas that include government, research, and teaching. Students may go on to earn a master or doctoral degree. History affords students with the knowledge and perspective to be intelligent leaders in community affairs.

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	HSTA	255B	Montana History	3
___	HSTR	101B	Western Civilization I	4
___	HSTR	102B	Western Civilization II	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement[1]	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3-4
			First Year Total	**29-30**

Second Year

✔	Course	#	Title	Credits
___	HSTA	101B	American History I	4
___	HSTA	102B	American History II	4
___	HSTR	284G	Environmental History	3
___	PSCI	250HB	Introduction to Political Theory	3
___	_____	____	Electives[1]	12
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			Second Year Total	**32**
			Total Credits	**61-62**

*Indicates prerequisite and/or corequisite needed.
Check course description.

[1] An Art History course is a recommended humanities course(s). In addition, History majors at The University of Montana - Missoula must take two semesters of the same foreign language and could complete that requirement here. Students who have an interest in a specific international history should discuss that interest with an advisor and choose their foreign language accordingly.

Associate of Arts Degree

Suggested course of study for a transfer to
Montana State University – Bozeman:

First Year

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	3
___	HSTA	255B	Montana History	3
___	HSTR	101B	Western Civilization I	4
___	HSTR	102B	Western Civilization II	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3-4
			First Year Total	**29-30**

Second Year

✔	Course	#	Title	Credits
____	HSTA	101B	American History I	4
____	HSTA	102B	American History II	4
_____	HSTR	284G	Environmental History	3
____	PSCI	250HB	Introduction to Political Theory	3
___	_____	____	Electives	11
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			Second Year Total	**31**
			Total Credits	**60-61**

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Human Services
(Pre-Social Work)
Transfer Curricula

An Associate of Arts degree with an emphasis in Human Services prepares the student for transfer to a university for a major in Human Services, Social Work or other similar programs. The student will be prepared to enter the academic rigors of upper division courses.

Opportunities in the broad spectrum of human services include employment in mental health centers, mental institutions, welfare agencies, employment services, rehabilitation, parole, aftercare, out reach, and various social service agencies both private and public. The student is encouraged to work closely with their advisor in the selection of electives to ensure the maximum level of transferability. Graduates of this transfer program will qualify for an Associate of Arts degree and will be prepared to transfer to **The University of Montana - Missoula**, majoring in social work, or to a variety of other social service oriented programs. Upon successful completion of the social work program, students will be ready to seek employment in the social services or seek entry into a graduate school of social work.

Students interested in the Bachelor of Social Work program at The University of Montana can take nearly 80 lower division credits at FVCC but should earn at least an AA degree before transferring either physically to UM or through a distance learning program.
A cohort of accepted students start the distance learning program in the fall of an odd year. Fall of 2015 will be the starting semester for the next cohort. Students will be required to go to UM to meet with the other members of the cohort and professors once or twice each semester. The courses in this program are sequential in nature so a student must attend each semester with that cohort or drop back two years into the next cohort. Students must apply and be accepted to the UM Social Work program a semester prior to enrolling in upper division classes whether they are attending UM campus or continuing at FVCC with the UM/FVCC partnership.

At least six of the eight out-of-department courses plus the UM Social Work equivalent courses (COMX 115C, HS 100A* and HS 250*) must be completed or in process prior to applying. Often the senior-year internship may be completed in the Flathead Valley.

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	BIOB	101NL	Discover Biology[3]	4
___	COMX	115C	Introduction to Interpersonal Communication	3
___	ECNS	101B	Economic Way of Thinking[3]	3
___	HS	100A*	Introduction to Human Services/ Social Work	3
___	PSYX	100A	Introduction to Psychology[3]	4
___	SOCI	101A	Introduction to Sociology[3]	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**29**

Second Year

✔	Course	#	Title	Credits
___	HS	210*	Case Management	2
___	HS	250*	Interviewing/Crisis Intervention	4
___	PSCI	210B	Introduction to American Government[3]	3
___	PSYX	230A*	Developmental Psychology[3]	3
___	PSYX	233*	Fundamentals of Psychology of Aging[3]	3
___	SOCI	220GA	Race, Gender, and Class[3]	3
___	_____	____	Electives[1]	6
___	_____	____	Fine Arts (F) or Humanities (H) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement[2]	3
			Second Year Total	**33**
			Total Credits	**62**

[1] PSYX 264* is a highly recommended elective that doesn't directly transfer for a specific class but will prepare the student for future classes.
[2]PSYX 250NA* is preferred.
[3]These courses are the eight out-of-deparment courses.

*Indicates prerequisite and/or corequisite needed.
Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Associate of Arts Degree

Suggested course of study for a transfer to **Salish Kootenai College**:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CAPP	106*	Short Courses: Computer Applications	1
	or			
___	CAPP	131*	Basic MS Office	2
___	COMX	111C	Introduction to Public Speaking	
	or			
___	COMX	115C	Introduction to Interpersonal Communication	3
___	HS	100A*	Introduction to Human Services/ Social Work	3
___	M	115M*	Probability and Linear Mathematics[1]	
	or			
___	M	121M*	College Algebra	
	or			
___	M	145Q*	Mathematics for the Liberal Arts	3
___	PSCI	210B	Introduction to American Government	3
___	PSYX	100A	Introduction to Psychology	4
___	SOCI	101A	Introduction to Sociology	3
___	WRIT	101W*	College Writing I	3
___	_____	____	LSH 261H[2] or LSH 262H[2] or PHL 101H[2]	3-4
___	_____	____	NASX 105G or NASX 232G	3
			First Year Total	**33-35**

Second Year

✔	Course	#	Title	Credits
___	CAS	242*	Fundamentals of Substance Abuse and Addiction[3]	3
___	HS	279*	Legal/Ethical/Professional Issues in Human Services	3
___	PSYX	230A*	Developmental Psychology	3
___	PSYX	250NA*	Fundamentals of Biological Psychology	3
___	SOCI	271	Introduction to Family Violence	3
___	STAT	216M*	Introduction to Statistics[1]	4
___	WRIT	201W*	College Writing II	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	HSTA 102B or HSTR 102B	4
___	_____	____	LSH 261H[2] or LSH 262H[2] or PHL 101H[2]	3-4
___	_____	____	Physical Education class (SKC Requirement)	1
___	_____	____	Electives[4]	9
			Second Year Total	**42-43**
			Total Credits	**75-78**

*Indicates prerequisite and/or corequisite needed.
Check course description.

[1] If a student takes M115M* they should take STAT 216M* which is the recommended sequence. SKC will accept M 121M* or M 145Q* but then the student will need to take Statistics there.
[2] Take two of these three courses.
[3] CAS 242* is required for all Social Work options. Those students going for the Chemical Dependency emphasis can fulfill SKC requirements with these additional courses: CAS 248*, CAS 250*, HS 210*, or PSYX 240A*.
[4] Electives can be chosen from the following: CJUS 121A, HS 294* and HS 295*, PSYX 233*, PSYX 264*, SOCI 215*, or SOCI 260.

Advisor:
Rick Halverson
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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Liberal Studies
Transfer Curricula

This program is designed for students with academic and professional interests in a variety of fields. Students pursuing liberal studies can expect to acquire a well-developed capacity for independent and critical thinking, as well as writing and speaking skills. The Bachelor of Arts in Liberal Studies through **The University of Montana - Missoula** and Bachelor of Science in Liberal Studies through **Montana State University - Billings** or **Montana State University - Bozeman** provide graduates with a solid foundation for a number of careers. **The University of Montana - Missoula** interdisciplinary program gives students a systematic and in-depth study of culture, humanities and social science right on the campus.

Liberal Studies majors also have the option of earning a Bachelor of Science degree in Liberal Studies through either **Montana State University - Billings** or **Montana State University - Bozeman** via on-line programs. A student would earn a generic Associate of Arts or Associate of Science degree at FVCC before starting the upper division courses in a thematic concentration arranged with the advisor at the desired school. Students planning to enroll at MSU Bozeman should complete two semesters of the same foreign language while earning their FVCC degree. For more information about these two programs please refer to www.msubillings.edu/msubonline/ or eu.montana.edu/online/degrees/completion with respective phone numbers of 1-800 565-6782 ext 2888 and 1-800-534-1286.

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Electives	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	HSTA 101B or HSTA 102B	4
___	_____	____	HSTR 101B or HSTR 102B	4
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	NASX 105G or NASX 232G	3
___	_____	____	Natural Science (NL) Requirement	3-4
			First Year Total	**29-30**

Second Year

✔	Course	#	Title	Credits
___	_____	____	CHIN 101GH & CHIN 102GH* or FRCH 101GH & FRCH 102GH* or GRMN 101GH & GRMN 102GH* or ITLN 101GH & ITLN 102GH* or RUSS 101GH & RUSS 102GH* or SPNS 101GH & SPNS 102GH*	10
___	_____	____	LIT 206GH* or LIT 223H or LIT 224H	3
___	_____	____	LIT 210H or LIT 211H	3
___	_____	____	LIT 240H, LIT 243, RLST 100G, RLST 205, or RLST 220G	3
___	_____	____	PHL 101H, PHL 110H, PHL 256*, PSCI 210B, PSCI 212B, or PSCI 250HB	3
___	_____	____	Electives	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			Second Year Total	**31**
			Total Credits	**60-61**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisors:

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Michael Ober
LRC 103
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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Mathematics
Transfer Curricula

The mathematics transfer program is designed to prepare students for transfer to a four-year institution where they can generally choose among several options. The pure mathematics option emphasizes mathematical analysis and is designed to prepare students for graduate study. A student who completes graduate study finds employment in research areas in government, education, and industry. The applied math option emphasizes applied mathematics and numerical techniques, statistics, and computer programming. Graduates find employment in business, industry, and government. The statistics option trains students to design and analyze studies, surveys, and experiments. They often find employment as statisticians with insurance companies, research and development departments, and government. The math education option prepares teachers at the secondary level.

The suggested course of study will prepare students for transfer to **Montana State University - Bozeman, Montana Tech of The University of Montana,** and **The University of Montana - Missoula.**

Associate of Science Degree

Suggested course of study for **Montana State University – Bozeman, Montana Tech of The University of Montana, The University of Montana – Missoula** and most four-year institutions:

First Year

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	3
___	M	171M*	Calculus I	5
___	M	172M*	Calculus II	5
___	WRIT	101W*	College Writing I	3
___	_____	____	CSCI 111[2] or CSCI 113*[2]	4
___	_____	____	Electives	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Natural Science (NL) Requirement[1]	3
___	_____	____	Social Sciences (A) Requirement	3
			First Year Total	**32**

Second Year

✔	Course	#	Title	Credits
___	M	221M*	Introduction to Linear Algebra	4
___	M	273M*	Multivariable Calculus	5
___	_____	____	Electives[4]	2
___	_____	____	Electives[4]	3
___	_____	____	Fine Arts (F) or Humanities (H) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	M 274M*[3] or Electives	5
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**31**
			Total Credits	**63**

[1] Selection of science courses depends on what option you are seeking. PHSX 210NL* and PHSX 212NL* is commonly recommended and is required at Montana State University. Check with your advisor and catalog of your transfer institution.
[2] Selection of computer class depends on what option you are seeking or to which school you are transferring. The University of Montana requires two computer programming classes. Check with your advisor and catalog of your transfer institution, if you intend to transfer elsewhere.
[3] If transferring to MSU-Bozeman.
[4] Mathematics Education majors transferring to The University of Montana should take EDU 221* and EDU 270.

*Indicates prerequisite and/or corequisite needed. Check course description.

Advisors:

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Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Music
Transfer Curricula

This program is designed for students interested in pursuing a minor in music. A minor in music compliments many majors. The curriculums outlined will provide students with the first two years of a music major at **Montana State University - Bozeman**, as well as the first year of study for a Bachelor of Arts in Music or Music Education at **The University of Montana - Missoula.**

Associate of Arts Degree

Suggested course of study for a transfer to
Montana State University - Bozeman

First Year

✔	Course	#	Title	Credits
___	MUSI	100	Concert Attendance	0
___	MUSI	105F	Music Theory I	2
___	MUSI	106F*	Music Theory II	2
___	MUSI	____	MUSI 112, MUSI 114, MUSI 131*, or MUSI 212	1
___	MUSI	135	Keyboard Skills I	1
___	MUSI	136*	Keyboard Skills II	1
___	MUSI	140	Aural Perception I	2
___	MUSI	141*	Aural Perception II	2
___	MUSI	195*	Applied Music I	1
___	MUSI	207FG	World Music	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
___	_____	____	Social Sciences (A) Requirement[1]	3-4
			First Year Total	**30-31**

Second Year

✔	Course	#	Title	Credits
___	MUSI	100	Concert Attendance	0
___	MUSI	____	MUSI 112, MUSI 114, or MUSI 131*	2
___	MUSI	195*	Applied Music I	1
___	MUSI	205*	Music Theory III	2
___	MUSI	206*	Music Theory IV	2
___	MUSI	230*	Intermediate Keyboard Skill: Repertoire	1
___	MUSI	231*	Intermediate Keyboard Skill: Accompanying	1
___	MUSI	240*	Aural Perception III	2
___	MUSI	241*	Aural Perception IV	2
___	NASX	232G	Montana Indians: Cultures, Histories, Current Issues	3
___	_____	____	Communications (C) Requirement[2]	3
___	_____	____	Electives	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
___	_____	____	Communications (C), Humanities (H), Social Sciences (A or B)[3] or WRIT 201W*	3
			Second Year Total	**30****
			Total Credits	**60-61****

[1,2] Students interested in Music Education should take PSYX 100A and COMX 111C respectively for these requirements.
[3] For education, take PSYX 230A*.
*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisors:
Regarding music classes: Karla West, BSS 108, (406) 756-3918, kwest@fvcc.edu
Regarding transfer: Dan Voermans, LRC 129, (406) 756-3887, dvoerman@fvcc.edu

**If time permits, or if interested in pursuing a Bachelor of Arts in Music Education, the following courses are recommended:

___	EDU	201	Introduction to Education with Field Experience	3
___	EDU	270	Instructional Technology	3
___	HEE	233	Health Issues of Children and Adolescents	3

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana - Missoula

First Year

✔	Course	#	Title	Credits
___	MUSI	105F	Music Theory I	2
___	MUSI	106F*	Music Theory II	2
___	MUSI	135	Keyboard Skills I	1
___	MUSI	136*	Keyboard Skills II	1
___	MUSI	140	Aural Perception I	2
___	MUSI	141*	Aural Perception II	2
___	MUSI	195*	Applied Music I	1
___	WRIT	101W*	College Writing I	3
___	_____	____	Electives	3
___	_____	____	Global Issues (G) Requirement[1]	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
___	_____	____	Social Sciences (A) Requirement[2]	3-4
			First Year Total	**32-33**

Second Year

✔	Course	#	Title	Credits
___	MUSI	112	Choir: Community Choir	
	or			
___	MUSI	212*	Choir II: Glacier Symphony	1
___	MUSI	195*	Applied Music I	1
___	MUSI	205*	Music Theory III	2
___	MUSI	206*	Music Theory IV	2
___	MUSI	230*	Intermediate Keyboard Skill: Repertoire	1
___	MUSI	231*	Intermediate Keyboard Skill: Accompanying	1
___	MUSI	240*	Aural Perception III	2
___	MUSI	241*	Aural Perception IV	2
___	_____	____	Communications (C) Requirement[3]	3
___	_____	____	Communications (C), Humanities (H), Social Sciences (A or B), or Writing (W) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
___	_____	____	Electives	5
			Second Year Total	**32**
			Total Credits	**64-65****

[1,2,3] Students interested in Music Education should take NASX 105G, PSYX 100A and COMX 111C or THTR 122C respectively for these requirements.
*Indicates prerequisite and/or corequisite needed.
Check course description.

**If time permits, or if interested in pursuing a Bachelor of Music Education, the following courses are recommended:

___	EDU	201	Introduction to Education with Field Experience	3
___	EDU	270	Instructional Technology	3
___	HEE	233	Health Issues of Children and Adolescents	3

Please note additional music electives must be approved in advance by the UM Music Department Chair.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Nursing
Transfer Curricula

Admission to nursing programs at transfer institutions is very competitive. Admission is based on grade prioritization and completion of prerequisite nursing classes. The courses listed will prepare students for a transfer toward the bachelor or associate degree programs in Nursing.

Prerequisites and some of the requirements for the two-year nursing programs at **Montana State University - Northern** and **Salish Kootenai College** may be taken at FVCC. Likewise, some of the requirements for the four-year nursing program at **Montana State University - Bozeman** may be taken at FVCC. Though courses taken at FVCC will lighten the load, it is necessary to spend two years for the ASN programs and two and a half years for the BSN programs at these institutions because of the required sequences of nursing and clinical courses. Application dates for the upper division course and clinical placement at MSU-Northern, Salish Kootenai College and Carroll College vary and change frequently. Students should check the School of Nursing websites at the respective schools as they progress through the prerequisite courses to ensure a timely application.

At FVCC, students may complete the prerequisites for the four-year BSN program at **Montana State University - Bozeman**. If accepted for an upper division spring placement, students may complete their lower division nursing classes in Kalispell pending sufficient demand, during the preceding summer and fall semesters. **Montana State University - Bozeman** offers an upper division placement site in Kalispell. MSU - Bozeman has two application periods for **upper division placement**; June 15th-August 1st for those starting the fall semester of the following calendar year and November 15th-January 1st for those starting the spring semester of the following year after this January 1st deadline. MSU's Nursing application has an online application which becomes available on the first date of these two application periods.

Nursing programs and core requirements are very specific for each transfer institution. Students should check carefully with their advisor and the transfer institution to make sure that appropriate courses are taken.

Again, admission to nursing programs at transfer institutions is very competitive. Spaces are limited and the demand is high. Not only is it important for students to maintain a high grade point average in their Nursing prerequisite classes, but it is also important for students to be aware of additional factors that may give students an extra advantage for placement. For example, at Salish Kootenai College extra preference is given to applicants based on their heritage and the number and grade point average of general education courses completed at time of application. Therefore, students should become familiar with the guidelines and dates of application for admission to the institution(s) to which they wish to apply. **All programs require a background check, some require it to be completed prior to the application deadline.**

Associate of Science Degree

Suggested course of study for a transfer to
Montana State University – Bozeman:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	121NL*	Introduction to General Chemistry	4
___	COMX	111C	Introduction to Public Speaking	
	or			
___	COMX	115C	Introduction to Interpersonal Communication	3
___	WRIT	101W*	College Writing I	3
			First Semester Total	**14**

Spring Semester

✔	Course	#	Title	Credits
___	BIOM	250NL*	Microbiology for Health Sciences	4
___	CHMY	123NL*	Introduction to Organic and Biochemistry	4
___	M	115M*	Probability and Linear Mathematics	3
___	PSYX	100A	Introduction to Psychology	4
___	SOCI	101A	Introduction to Sociology	3
			Second Semester Total	**18**

Summer Semester

✔	Course	#	Title	Credits
___	_____	____	Humanities (H) Requirement	3
			Third Semester Total	**3**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	PSYX	230A*	Developmental Psychology	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	NRSG	258N*	Principles of Pathophysiology	4
___	NUTR	221N	Basic Human Nutrition	3
___	STAT	216M*	Introduction to Statistics	4
			Second Semester Total	**15**

Total Credits **66**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Associate of Science Degree

Suggested course of study for a transfer to
Montana State University – Northern:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	121NL*	Introduction to General Chemistry	4
___	NRSG	100	Introduction to Nursing	1
___	SOCI	101A	Introduction to Sociology	3
___	WRIT	101W*	College Writing I	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	3
___	M	121M*	College Algebra	3
___	PSYX	100A	Introduction to Psychology	4
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Semester Total	**16**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	BIOM	250NL*	Microbiology for Health Sciences	4
___	NUTR	221N	Basic Human Nutrition	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			First Semester Total	**14**

Spring Semester

✔	Course	#	Title	Credits
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	NRSG	258N*	Principles of Pathophysiology	4
___	STAT	216M*	Introduction to Statistics[1]	4
___	_____	____	Global Issues (G) Requirement	3
			Second Semester Total	**15**

Total Credits **60**

[1] Required for bachelor degree only at MSU – Northern.
*Indicates prerequisite and/or corequisite needed.
Check course description.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Associate of Science Degree

Suggested course of study for a transfer to
Salish Kootenai College:

First Year

Fall Semester

✔	Course	#	Title	Credits
____	BIOB	160NL	Principles of Living Systems	4
___	CAPP	106*	Short Courses: Computer Applications	1
___	CHMY	121NL*	Introduction to General Chemistry	4
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	AHMS	144	Medical Terminology	3
___	BIOM	250NL*	Microbiology for Health Sciences	4
___	M	115M*	Probability and Linear Mathematics[1]	
	or			
___	M	121M*	College Algebra	3
___	NURS	101*	Nurse's Aide Training[2]	5
___	PSYX	230A*	Developmental Psychology	3
			Second Semester Total	**18**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	COMX	111C	Introduction to Public Speaking	3
___	LSH	261H	Introduction to the Humanities Origins and Influences I	4
	or			
___	PHL	101H	Introduction to Philosophy: Reason and Reality	3
____	____	____	Social Sciences (B) Requirement	3
			First Semester Total	**13-14**

Spring Semester

✔	Course	#	Title	Credits
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	NUTR	221N	Basic Human Nutrition	3
___	WRIT	201W*	College Writing II	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement[3]	3
___	_____	____	Global Issues (G) Requirement	3
			Second Semester Total	**16**

Total Credits **63-64**

[1] Students pursuing the BSN at Salish Kootenai should take M 115M*, STAT 216M* and SOCI 101A.
[2] Need to provide documentation of sufficient work hours as a CNA.
[3] A Fine Arts course is required at SKC.

*Indicates prerequisite and/or corequisite needed.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Associate of Science Degree

Suggested course of study for a transfer to **Montana Tech of The University of Montana**:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	121NL*	Introduction to General Chemistry	4
___	M	121M*	College Algebra	3
___	NRSG	100	Introduction to Nursing	1
___	WRIT	101W*	College Writing I	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	CHMY	123NL*	Introduction to Organic and Biochemistry	4
___	NUTR	221N	Basic Human Nutrition	3
___	PSYX	100A	Introduction to Psychology	4
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Humanities (H) Requirement	3
			Second Semester Total	**18**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	BIOM	250NL*	Microbiology for Health Sciences	4
___	PSYX	230A*	Developmental Psychology	3
___	_____	____	Communications (C) Requirement	3
			First Semester Total	**14**

Spring Semester

✔	Course	#	Title	Credits
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	SOCI	101A	Introduction to Sociology	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Semester Total	**16**
			Total Credits	**63**

*Indicates prerequisite and/or corequisite needed.
Check course description.

The programs at **MSU-Northern** and **Montana Tech** are Associate of Science in Nursing programs with the same pre-requisites as FVCC's ASN program. Both schools offer a Bachelors of Science in Nursing completion program. A student who has the intention pursuing the BSN at either school would want to complete the suggested curriculums rather than strictly take the pre-requisites for the ASN.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Advisors:

Dr. Janice Alexander, RH 144, (406) 756-3948
jalexand@fvcc.edu

Lori Elwell, BC 123-D, (406) 756-3899, lelwell@fvcc.edu

Dr. Sue Justis, BC 123-C, (406) 756-3866, sjustis@fvcc.edu

Myrna Ridenour, BC 102-A, (406) 756-3997
mridenour@fvcc.edu

Adam Wenz, RH 106C, (406) 756-3616, awenz@fvcc.edu

Pre-Nursing Major Requirements and Prerequisites

	FVCC	MSU - Bozeman	SKC	MSU - Northern	MT Tech of UM
BIOB 160NL	Principles of Living Systems	Required	Required	Required	Required
BIOH 201NL*	Human Anatomy and Physiology I	Required	Required	Required	Required
BIOH 211NL*	Human Anatomy and Physiology II	Required	Required	Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement
BIOM 250NL*	Microbiology for Health Sciences	Required	BIOM 250NL* is Required	Required	Required
CHMY 121NL*	Introduction to General Chemistry	Required	Required	Required	Required
CHMY 123NL*	Introduction to Organic and Biochemistry	Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement	Not Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement
COMX 111C	Introduction to Public Speaking	One is Required	COMX 111C is Required	COMX 111C is Required	Not Required
COMX 115C	Introduction to Interpersonal Communication				
M 115M*	Probability and Linear Mathematics	Prerequisite for STAT 216M*	Prerequisite for STAT 216M* if pursuing a BSN degree.	Not Required	Not Required
M 121M*	College Algebra	Not Required	Not Required	Required	Required
NRSG 100	Introduction to Nursing	Not Required	Required	Required	Required
NRSG 258N*	Principles of Pathophysiology	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement	Not Required	Required	Not Required
NURS 101*	Nurse's Aide Training	Not Required	Required	Not Required	Not Required
NUTR 221N*	Basic Human Nutrition	Required	Required	Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement
PSYX 100A	Introduction to Psychology	Required	Required	Required	Required
PSYX 230A*	Developmental Psychology	Required	Required	Not Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement
SOCI 101A	Introduction to Sociology	Required	Required for the BSN Degree, but not the ASN Degree	Not Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement
STAT 216M*	Introduction to Statistics	Required	Required for the BSN Degree	Required for the BSN Degree	Not Required
WRIT 101W*	College Writing I	Required	Required	Required	Required
WRIT 201W*	College Writing II	Not Required	Required	Not Required	Not Required

* Indicates prerequisite and/or corequisite needed. Check course description.

The programs at MSU-Northern and Montana Tech of UM are Associate of Science in Nursing programs with the same prerequisites as FVCC's ASN program. Both schools offer a Bachelor of Science in Nursing completion program. A student who has the intention of pursuing the BSN at either school would want to complete the suggested curriculums rather than strictly taking the prerequisites for the ASN.

Contact Information for Area Nursing Programs

Flathead Valley Community College 1-800-313-3822 www.fvcc.edu

PN - Application deadline is the last Friday in April. Program prerequisites include: BIOH 201NL*, BIOH 211NL*, CHMY 121NL*, M 121M*, NRSG 100, PSYX 100A and WRIT 101W*. **ASN -** Application is from September 1st through the last Friday of October for a January semester start. Students need to be a licensed PN and should fulfill additional course requirements to be competitive and prepared for this two-semester program. For either program, contact Myrna Ridenour at (406) 756-3997 or mridenour@fvcc.edu.

MSU - Bozeman 1-888-678-2287 www.montana.edu

MSU - Bozeman has two application periods for **upper division placement**; June 15th - August 1st for those starting the fall semester of the following calendar year and November 15th - January 1st for those starting the spring semester of the following year after this January 1st deadline. MSU's Nursing application has an online application which becomes available on the first date of these two application periods. Apply at least one year prior to anticipated upper division placement**.** Contact Myrna Ridenour at (406) 756-3997 or mridenour@fvcc.edu.

Salish Kootenai College 1-877-752-6553 www.skc.edu

ASRN/BSN - Application deadline for fall semester is April 1.

MSU - Billings College of Technology 1-800-565-6782

PN and ASN - Same prerequisites as FVCC PN program. Application deadline is December 1 for spring semester and May 15 for fall semester.

MSU - Northern 1-800-662-6132 www.msun.edu

ASRN/BSN - Application deadline for fall semester is April 1**.**

MT Tech of The University of Montana 1-800-445-8324 www.mtech.edu

ASRN/BSN - Application deadline is October 28 for a January start date.

Miles Community College 1-800-541-9281 www.milescc.edu

ASRN - Application deadline for fall semester placement is April 1. Students must take the NLN Pre-Admission Exam in Miles City prior to applying to the nursing program. Major requirements include: BIOM 250NL* and BIOH 201NL*, BIOH 211NL*, PHL 110H and M 145Q*, PSYX 100A, PSYX 230A*, COMX 111C, STAT 216M* or WRIT 101W*.

Spokane Community College 1-800-248-5644 www.scc.spokane.edu

ASRN - The application process begins on December 1 for a fall quarter start date. Program prerequisites include: BIOB 160NL, CHMY 121NL* and M 090*. Preference will be given to students who have also completed BIOH 201NL*, BIOH 211NL*, BIOM 250NL*, PSYX 100A and PSYX 230A* and WRIT 101W*.

ASN = Associate of Science Nursing
ASRN = Associate of Science Registered Nurse
BA or BSN = Baccalaureate Registered Nurse
PN = Practical Nursing

* Indicates prerequisite and/or corequisite needed.
Check course description.

Pharmacy
Transfer Curricula

The curriculum offered by the School of Pharmacy at **The University of Montana - Missoula** consists of a six-year program leading to the entry-level Doctor of Pharmacy degree. By earning the Associate of Science degree as prescribed, students will be academically prepared to enter the professional pharmacy program.

The application deadline for general admissions and to the Pharmacy program is February 15 of the year for which admission is requested. Admission to **The University of Montana - Missoula** does not guarantee admission to the Professional Pharmacy Program.

In addition to completing the courses listed, students must present a letter of recommendation and proof of having completed at least 60 hours of volunteer or paid service in a pharmacy or other health care setting at the time of application. Additionally, students must take the Pharmacy College Admissions Test (PCAT). The PCAT is usually given in September and January of each year. The test registration deadline typically occurs two months or more prior to the scheduled test dates.

Due to the PCAT exam subject areas, students are advised to have completed BIOB 160NL, BIOB 260NL*, BIOH 201NL*, BIOH 211NL*, CHMY 141NL*, CHMY 143NL* and CHMY 221NL*, M 162M* and STAT 216M*, prior to taking the PCAT.

Advisors:

Dr. Janice Alexander	Adam Wenz
RH 144	RH 106
(406) 756-3948	(406) 756-3616
jalexand@fvcc.edu	awenz@fvcc.edu

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Associate of Science Degree

Suggested course of study for a transfer to **The University of Montana – Missoula:**

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	141NL*	College Chemistry I	5
___	M	162M*	Applied Calculus	5
___	WRIT	101W*	College Writing I	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BIOB	260NL*	Cellular and Molecular Biology	5
___	CHMY	143NL*	College Chemistry II	5
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	PSYX 100A or SOCI 101A	3-4
			Second Semester Total	**17-18**

Summer Semester[1]

✔	Course	#	Title	Credits
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
			Third Semester Total	**6**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	CHMY	221NL*	Organic Chemistry I	5
___	_____	____	COMX 111C or COMX 115C	3
___	_____	____	ECNS 201B or ECNS 202GB	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	CHMY	223NL*	Organic Chemistry II	5
___	PHSX	205NL*	College Physics I	5
___	_____	____	Fine Arts (F) or Humanities (H) Requirement	3
			Second Semester Total	**17**
			Total Credits	**72-73**

[1] An alternative is to take BIOH 201NL* and BIOH 211NL* in the summer and push these general education requirements into the second year.

*Indicates prerequisite and/or corequisite needed. Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Physics
Transfer Curricula

Physics, as the science which addresses the formulation and verification of laws and relationships pertaining to our physical Universe, provides us with a broad and thorough understanding of the fundamental ideas and concepts relating to the physical world in which we live. Physics explains the physical phenomena which occur in mechanics, thermodynamics, electromagnetism, light, atomic and nuclear physics, quantum mechanics, and both special and general relativity. The fundamental language of physics is mathematics. Applications of physics are found throughout all of the natural sciences such as astronomy, biology, chemistry, geology, geophysics, meteorology, and oceanography, as well in such fields as engineering, medicine, computer science, education, business and industry, law, journalism, and philosophy.

Colleges and universities require that a student working toward a baccalaureate degree complete certain general education requirements in addition to courses required in the major area of study. With judicious planning, a student should be able to complete the general education requirements of the Montana University System and earn an Associate of Science (AS) degree at FVCC while completing one of the following suggested courses of study in FVCC's physics transfer program.

The following FVCC suggested courses of study are recommended for students interested in pursuing a physics major with transfer to either **Montana State University - Bozeman** or **The University of Montana - Missoula**. Students interested in beginning their work at FVCC toward a degree or a major in physics should carefully consult the current catalog of the college or university to which they anticipate transferring in order to determine specific degree requirements.

Associate of Science Degree

Suggested course of study for a transfer to
Montana State University – Bozeman:

First Year

✔	Course	#	Title	Credits
___	M	171M*	Calculus I	5
___	M	172M*	Calculus II	5
___	PHSX	210NL*	General Physics I	6
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Elective (Recommend M 221M*)	4
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) Requirement	3
			First Year Total	**32**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Second Year

✔	Course	#	Title	Credits
___	M	273M*	Multivariable Calculus	5
___	M	274M*	Introduction to Differential Equations	5
___	PHSX	212NL*	General Physics II	6
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Natural Science (NL) Non-Physics Elective**	4
___	_____	____	Social Sciences (A) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**29**
			Total Credits	**61**

**This elective requirement may be selected from Biology, Chemistry, or Geology depending on the student's area of interest.

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	CSCI	111	Programming with Java I	4
___	CSCI	121*	Programming with Java II[1]	
	or			
___	_____	____	Electives	4
___	M	171M*	Calculus I	5
___	M	172M*	Calculus II	5
___	PHSX	210NL*	General Physics I	6
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			First Year Total	**33**

Second Year

✔	Course	#	Title	Credits
___	M	273M*	Multivariable Calculus	5
___	_____	____	Electives	
	or			
___	M	225M*	Introduction to Discrete Mathematics[1]	4
___	PHSX	212NL*	General Physics II	6
___	_____	____	Communications (C) Requirement	3
___	_____	____	Fine Arts (F) or Humanities (H) Requirement[2]	3-5
___	_____	____	Global Issues (G) Requirement[2]	3-5
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**27-31**
			Total Credits	**60-64**

[1] If pursuing the Computational Physics option.
[2] One semester of a foreign language is required for a Physics major. However, if students don't complete their general education core at FVCC, two semesters of the same foreign language will be required at The University of Montana.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisor:
James Boger
RH 175
(406) 756-3989
jboger@fvcc.edu

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Political Science
Transfer Curricula

Political Science provides students with an opportunity to observe the world's political institutions, from local governments to international organizations. The focus is on the quality of political leadership, the values underlying public affairs, the political and legal processes used to make governmental decisions and insight into policies. A degree in political science prepares students for careers in government, law, public service, journalism, teaching, and management.

Associate of Arts Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	PSCI	210B	Introduction to American Government	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Fine Arts (F) or Humanities (H) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	PSCI	250HB	Introduction to Political Theory	3
___	_____	____	Communications (C), Humanities (H), Social Sciences (A or B) or Writing (W) Requirement	3
___	_____	____	Elective[1]	3
___	_____	____	Elective[1]	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			Second Year Total	**30**

Total Credits	**60**

[1] Recommend CHIN 101GH & CHIN102GH* or FRCH 101GH & FRCH 102GH* or GRMN 101GH & GRMN 102GH* or ITLN 101GH & ITLN 102GH* or RUSS 101GH & RUSS 102GH* or SPNS 101GH & SPNS 102GH* if pursuing an option in International Relations and Comparative Politics.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisor:
Robert Bauer
BSS 124
(406) 756-3860
rbauer@fvcc.edu

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Pre-Dental
Transfer Curricula

The University of Minnesota Dental Exchange Program is a cooperative agreement between the State of Montana and the University of Minnesota, which provides a limited number of openings in the Minnesota School of Dentistry for residents of Montana. Montana funded students pay resident tuition and fees at the **University of Minnesota.** If accepted by the University of Minnesota, students will be ranked for the available state funding by the School of Dentistry. In general, students are expected to earn a Bachelor's degree prior to attending dental school; however, exemplary candidates may be admitted after completion of 90 credits, with 26 credits at the upper division level. In addition, candidates are required to sit for the DAT exam and have dental practice observation hours.

Associate of Science Degree

Suggested course of study for a transfer to most pre-dental programs:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	141NL*	College Chemistry I	5
___	WRIT	101W*	College Writing I	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) Requirement	3
			First Semester Total	**18**

Spring Semester

✔	Course	#	Title	Credits
___	CHMY	143NL*	College Chemistry II	5
___	COMX	111C	Introduction to Public Speaking	3
___	M	153M*	Precalculus Trigonometry	3
___	PHSX	205NL*	College Physics I	5
___	WRIT	201W*	College Writing II	3
			Second Semester Total	**19**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	221NL*	Organic Chemistry I	5
___	PHYS	207NL*	College Physics II	5
___	PSYX	100A	Introduction to Psychology	4
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BCH	280N*	Biochemistry	3
___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	CHMY	223NL*	Organic Chemistry II	5
___	____	____	Social Sciences (B) Requirement	3
			Second Semester Total	**16**

Total Credits **70**

*Indicates prerequisite and/or corequisite needed. Check course description.

Advisor:
Dr. David Long
RH 118
(406) 756-3895
dlong@fvcc.edu

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Pre-Health Professions

Transfer Curricula

A student can complete the first two years of most pre-health profession programs (including pre-medicine, pre-physical therapy, and pre-dental hygiene) at FVCC. Since the study plan and application deadline is different for each, the student is strongly encouraged to contact his/her advisor early and often about the appropriate course of study.

Pre-medical studies include dentistry, medicine (medical, naturopathic, osteopathic), optometry, podiatry, and veterinary medicine. In addition to the prerequisites listed below, a student must choose a major and receive their bachelor degree from a four year college or university. The suggested course of study for pre-medicine is the coursework generally required for entrance to medical schools and to be properly prepared to take the entrance exam. Students should work closely with their advisor to make sure requirements for a major as well as for specific medical schools are met. The grade point average required for entrance to medical schools varies depending on the program chosen.

Montana does not have a medical school, thus Montana residents are served by the WWAMI program. WWAMI is a partnership between the University of Washington School of Medicine and Montana. The tuition paid by Montana students is the same as that paid by Washington state residents. Those who enter as residents of Montana are accepted conditional upon agreement to spend their first year at the Montana State University - Bozeman WWAMI site. Students may wish to obtain additional information on the WWAMI website http://www.montana.edu/wwwwami/.

Pre-chiropractic students may also follow the suggested course of study for pre-medicine. However, additional humanities, social sciences, and fine arts courses are typically required for entrance to a chiropractic school. Pre-chiropractic students should also work closely with their advisor to ensure all entrance requirements are met.

Pre-physician students applying to Rocky Mountain College's PA program should be aware that students must complete one year minimum full-time hands-on health care experience with direct patient contact prior to applying for admission into the program.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Associate of Science Degree

Suggested course of study for a transfer to most pre-medicine programs:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems[1]	
	or			
___	BIOB	256 NL*	Intro Biol: Cells to Organisms[2]	4
___	CHMY	141NL*	College Chemistry I	5
___	M	162M*	Applied Calculus[3]	
	or			
___	M	171M*	Calculus I[3]	5
___	WRIT	101W*	College Writing I	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
____	CHMY	143NL*	College Chemistry II	5
___	PHSX	205NL*	College Physics I	5
___	PSYX	100A	Introduction to Psychology	4
___	STAT	216M*	Introduction to Statistics	4
			Second Semester Total	**18**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	221NL*	Organic Chemistry I	5
___	PHSX	207NL*	College Physics II	5
____	____	____	Global Issues (G) Requirement	3
___	____	____	Humanities (H) Requirement	3
___	____	____	Social Sciences (B) Requirement	3
			First Semester Total	**19**

Spring Semester

✔	Course	#	Title	Credits
___	BCH	280N*	Biochemistry	3
___	BIOB	170N*	Principles of Biological Diversity[1]	3
	and			
___	BIOB	171L*	Principles of Biological Diversity Lab[1]	2
	or			
___	BIOB	260NL*	Cellular and Molecular Biology[2]	5
___	CHMY	223NL*	Organic Chemistry II	5
___	COMX	111C	Introduction to Public Speaking	3
___	____	____	Fine Arts (F) or Humanities (H) Requirement	3
			Second Semester Total	**19**

Total Credits **73**

[1] For students transferring to UM - Missoula.
[2] For students transferring to MSU - Bozeman. For other schools, see an advisor to find out the required Biology sequence.
*Indicates prerequisite and/or corequisite needed.
Check course description

Advisor: Dr. David Long, RH 118
(406) 756-3895
dlong@fvcc.edu

Associate of Science Degree

Suggested course of study for a transfer to **Palmer College of Chiropractic** in pre-chiropractic:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	CHMY	141NL*	College Chemistry I	5
___	M	121M*	College Algebra	3
___	WRIT	101W*	College Writing I	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	CHMY	143NL*	College Chemistry II	5
___	COMX	111C	Introduction to Public Speaking	3
___	PHSX	205NL*	College Physics I	5
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	221NL*	Organic Chemistry I	5
___	PHSX	207NL*	College Physics II	5
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) Requirement	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	CHMY	223NL*	Organic Chemistry II	5
___	PSYX	100A	Introduction to Psychology	4
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Semester Total	**15**

Total Credits **63**[1]

*Indicates prerequisite and/or corequisite needed. Check course description.

[1] If time permits, students should consider taking the following classes:

___	_____	____	Communications (C), Humanities (H), Social Sciences (A or B) or Electives	3
___	_____	____	Electives (with Palmer College's approval)	20

Advisor:

Dr. David Long
RH 118
(406) 756-3895
dlong@fvcc.edu

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Pre-Physical Therapy
Transfer Curricula

Physical therapy is a health care profession concerned with the rehabilitation of individuals who have limitations resulting from pathological, surgical, or traumatic conditions. The profession is also concerned with health, wellness and prevention of disability in an effort to promote maximal use of an individual's capacities and reduce their risk of illness. Physical therapists are trained to evaluate neurological, musculoskeletal, cardiovascular, respiratory, and skin disorders. Exercise and physical agents, such as heat, cold, light, electricity, and massage are used to promote healing, relieve pain, maintain or restore strength, and improve joint range of motion and functional capabilities.

Physical therapy is practiced in diverse settings, including hospitals, clinics, skilled nursing facilities, sports medicine programs, public schools, and private practices. Legislation in Montana permits direct public access to physical therapists for evaluation and treatment without a physician referral. Even so, physical therapists remain committed to functioning as an integral member of the health care team.

Physical therapy programs have evolved to be professional programs earning a Doctorate Degree, but some are still offered at the Masters level. Students wishing to apply to the professional physical therapy program at **The University of Montana - Missoula** may select any major for their undergraduate degree as long as they have the noted prerequisites successfully completed. All prerequisite courses must be taken for a traditional letter grade and must be completed with a grade of "C" or better. For specific lower division requirements that will be needed at other professional physical therapy programs consult the website of a school that may be of interest to you.

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula
in pre-physical therapy:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	121NL*	Introduction to General Chemistry	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BIOM	250NL*	Microbiology for Health Sciences	4
___	CHMY	123NL*	Introduction to Organic and Biochemistry	4
___	PHSX	205NL*	College Physics I	5
___	PSYX	100A	Introduction to Psychology	4
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	ECP	100	First Aid and CPR	2
___	PHSX	207NL*	College Physics II	5
___	PSYX	230A*	Developmental Psychology[1]	3
			First Semester Total	**14**

Spring Semester

✔	Course	#	Title	Credits
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	COMX	111C	Introduction to Public Speaking	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			Second Semester Total	**17**
			Total Credits	**65**

[1] PSYX 230A* is recommended but PSYX 240A*, PSYX 260A*, or SOCI 101A would also be acceptable prerequisites.

To be eligible to apply to the professional physical therapy program, a student can complete any Bachelor's program as long as the following prerequisites have been completed: Natural Science, Statistics and Behavioral Social Sciences.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisors:

Julie Robertson
BH 123-A
(406) 756-3620
jrobertson@fvcc.edu

Janice Heil
BC 123-B
(406) 756-3373
jheil@fvcc.edu

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Pre-Veterinary Medicine

Transfer Curricula

The State of Montana participates in the WICHE exchange program, providing Montana residents options for Veterinary Medicine. Montana students are eligible to apply through WICHE to Colorado State University, Oregon State University and Washington State University. In general, students are expected to earn a Bachelor's degree prior to attending veterinary school; however, exemplary candidates may be admitted after completion of 90 credits, including an additional six credits of humanities, social sciences and the arts beyond the AS requirement at FVCC. Completion of a Bachelor's degree removes the requirement for the additional six credits of humanities, social sciences and arts. In addition, candidates are required to sit for the GRE exam. Requirements below fulfill prerequisites for Colorado State University and Washington State University. Oregon State University requires several courses in addition to those shown below.

Associate of Science Degree

Suggested course of study for a transfer in Pre-Veterinary Medicine:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	141NL*	College Chemistry I	5
___	M	162M*	Applied Calculus	5
___	WRIT	101W*	College Writing I	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	CHMY	143NL*	College Chemistry II	5
___	COMX	111C	Introduction to Public Speaking	3
___	STAT	216M*	Introduction to Statistics	4
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BIOB	272N*	Genetics and Evolution	4
___	CHMY	221NL*	Organic Chemistry I	5
___	_____	____	Humanities (H) Requirement	3
___	____	____	Social Sciences (A) Requirement	3
___	____	____	Social Sciences (B) Requirement	3
			First Semester Total	**18**

Spring Semester

✔	Course	#	Title	Credits
___	BCH	280N*	Biochemistry	3
___	CHMY	223NL	Organic Chemistry II	5
___	PHSX	205NL*	College Physics I	5
___	____	____	Global Issues (G) Requirement	3
___	____	____	Fine Arts (F) or Humanitites (H) Requirement	3
			Second Semester Total	**19**
			Total Credits	**71**

*Indicates prerequisite and/or corequisite needed. Check course description.

The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

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Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

Psychology
Transfer Curricula

The field of psychology prepares students for positions in the correction, substance abuse, welfare, and mental health fields, and for entrance into various graduate programs. Many careers in psychology require graduate study beyond the bachelor degree. By completing the Associate of Arts degree as prescribed below, students will be ready to complete their bachelor's degree at **The University of Montana - Missoula, Montana State University - Bozeman,** or the **University of Great Falls**, either transferring to their campus or staying at FVCC via the **University of Great Falls'** TELECOM program.

Associate of Arts Degree

Suggested course of study for a transfer to the **University of Great Falls:**

First Year

✔	Course	#	Title	Credits
___	CAPP	120	Introduction to Computers	3
___	COMX	111C	Introduction to Public Speaking	3
___	LIT	110H	Introduction to Literature	3
___	M	115M*	Probability and Linear Mathematics	3
___	PSYX	100A	Introduction to Psychology	4
___	PSYX	230A*	Developmental Psychology	3
___	SOCI	260	Introduction to Juvenile Delinquency	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Fine Arts(F) or Humanities (H) Requirement	3
___	_____	____	RLST 100G or RLST 220G	3
			First Year Total	**34**

Second Year

✔	Course	#	Title	Credits
___	PSCI	210B	Introduction to American Government	3
___	PSYX	240A*	Fundamentals of Abnormal Psychology	3
___	PSYX	260A*	Fundamentals of Social Psychology	3
___	STAT	216M*	Introduction to Statistics	4
___	WRIT	201W*	College Writing II	3
___	_____	____	Electives[1]	3
__	_____	____	Natural Science (NL) Requirement[2]	4
___	_____	____	Natural Science (NL or N) Requirement[2]	3-4
			Second Year Total	**26-27**
			Total Credits	**60-61**

[1]SOCI 215* is needed for a Social Services concentration.
[2] GPHY 111NL* is not acceptable as a Lab Science at UGF.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Associate of Arts Degree

Suggested course of study for a transfer to **The University of Montana – Missoula:**

First Year

✔	Course	#	Title	Credits
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	M 115M*, M 162M*, or M 171M*	3-5
___	_____	____	Natural Science (NL) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
___	_____	____	Electives	6
			First Year Total	**31-33**

Second Year

✔	Course	#	Title	Credits
___	PSYX	230A*	Developmental Psychology	3
___	PSYX	233*	Fundamentals of Psychology of Aging	3
___	PSYX	240A*	Fundamentals of Abnormal Psychology	3
___	PSYX	250NA*	Fundamentals of Biological Psychology	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			Second Year Total	**31**
			Total Credits	**62-64**

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Associate of Arts Degree

Suggested course of study for a transfer to
Montana State University – Bozeman:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	COMX	111C	Introduction to Public Speaking	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Electives	6
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement[1]	3
___	_____	___	Natural Science (NL) Requirement	3
___	_____	____	PSYX Elective[2]	3
			First Year Total	**32**

Second Year

✔	Course	#	Title	Credits
___	PSYX	230A*	Developmental Psychology	3
___	_____	____	Electives	3
___	_____	____	Elective[2]	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	PSYX Elective[2]	3
___	_____	____	PSYX Elective[2]	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**30**
			Total Credits	**62**

[1] Montana State University recommends M 121M* to be prepared for their Psychological Stats courses.
[2] MSU will acccept PSYX 233*, PSYX 240A*, PSYX 250NA*, PSYX 260A* which are all taught at the 300 level there. Students will need to take additional upper division courses to replace those taken at FVCC. Consult the MSU Psychology website to plan accordingly.

*Indicates prerequisite and/or corequisite needed.
Check course description.

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Sociology
Transfer Curricula

Sociology is largely concerned with the study of American society and how it operates today. Graduates may work in fields including sociology, social work, criminal justice, teaching and a wide range of social service professions.

The University of Montana - Missoula offers a Bachelor of Arts degree in Sociology with options in General Sociology, Criminology, Rural and Environmental Change, and Inequality and Social Justice. **Montana State University - Bozeman** offers a Bachelor of Science degree in Sociology with emphases in Anthropology, Justice Studies, and Sociology. The **University of Great Falls** offers a Bachelor of Arts degree in Sociology with concentrations in chemical dependency counseling and human services.

Associate of Arts Degree

Suggested course of study for a transfer to **The University of Montana – Missoula:**

First Year

✔	Course	#	Title	Credits
___	M	115M*	Probability and Linear Mathematics	3
___	SOCI	101A	Introduction to Sociology	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Electives[1]	9
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	SOCI	220GA	Race, Gender, and Class	3
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Communications (C), Humanities (H), Social Sciences (A or B), or WRIT 201W*	3
___	_____	____	Electives[1]	9
___	_____	____	Global Issues (G) Requirement or Elective (if completed SOCI 220GA)	3
___	_____	____	Fine Arts (F) or Humanities (H) Requirement	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**31**
			Total Credits	**61**

See page 65 for the suggested program for those seeking the criminology option.

[1] Any HS, PSYX, or SOCI courses are recommended to prepare the student for upper division courses.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Associate of Arts Degree

Suggested course of study for a transfer to **Montana State University - Bozeman**:

First Year

✔	Course	#	Title	Credits
___	SOCI	101A	Introduction to Sociology	3
___	WRIT	101W*	College Writing I	3
___	_____	____	Communications (C) Requirement	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
___	_____	____	Communications (C), Humanities (H), or Social Sciences (A or B), or WRIT 201W*	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Electives	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Fine Arts (F) or Humanitites (H) Requirement	3
___	_____	____	Mathematics (M or Q) Requirement[1]	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
___	_____	____	SOCI Elective	3
			Second Year Total	**30**
			Total Credits	**60**

[1] M 121M* is recommended to prepare for MSU's Sociological Statistics course.

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Theatre Arts Studies

Transfer Curricula

The program in Theatre Arts Studies helps to prepare students for transferring to a four-year educational institution with a major in Theatre Arts. Theatre Arts Studies provides the student with a broad liberal art education and a general focus in theatre while completing the General Education Requirements.

The student is strongly encouraged to discuss course articulation with the advisor to facilitate transfer to **The University of Montana - Missoula** or other four-year institutions, as some coursework may be accepted as only a theatre elective.

Associate of Arts Degree

Suggested course of study for a transfer in Theatre Arts:

First Year

✔	Course	#	Title	Credits
___	M	145Q*	Mathematics for the Liberal Arts	3
___	THTR	101FH	Introduction to Theatre	3
___	THTR	102F	Introduction to Theatre Design	3
___	THTR	106	Theatre Production I: Run Crew	1
___	THTR	120F	Introduction to Acting I	3
___	THTR	205	Theatre Workshop II	2
___	WRIT	101W*	College Writing I	3
___	_____	____	Electives	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Natural Science (NL) Requirement	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	
	or			
____	COMX	150CF	Video Communication	
	or			
___	THTR	122C	Acting for Non-Majors[1]	3
___	THTR	106	Theatre Production I: Run Crew	1
___	THTR	121F*	Introduction to Acting II	3
___	THTR	202	Stagecraft I: Lighting and Costumes	3
___	THTR	203	Stagecraft II: Scenery and Props	3
___	THTR	205	Theatre Workshop II	2
___	_____	____	Electives	3
___	_____	____	Communications (C), Humanities (H), Social Sciences (A or B), or WRIT 201W*	3
___	_____	____	Natural Science (NL or N) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**30**
			Total Credits	**60**

[1] THTR 122C will only apply to the Design/Technology option at The University of Montana - Missoula.

Suggested Electives:

✔	Course	#	Title	Credits
___	ARTH	200FGH	Art of World Civilization I	3
___	ARTH	201FGH	Art of World Civilization II	3
___	DANC	194	Seminar/Workshop	3
___	FILM	105	Motion Picture Appreciation	1
___	LIT	225H	Shakespeare: Tragedy and Comedy	3
___	LIT	226H	Shakespeare: History and Tragedy	3
___	THTR	106	Theatre Production I: Run Crew	1
___	THTR	235H	Dramatic Literature	3
___	THTR	275	Beginning Directing II	3

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Wildlife Biology
Transfer Curricula

Wildlife biologists study wild animals and the issues that surround their habitats and conservation. **The University of Montana - Missoula's** Wildlife Biology department prepares students to enter fields in wildlife biology as managers, researchers, and ecologists. While some employment opportunities exist at the bachelor's level, many students continue on to graduate studies for more opportunity. Students at FVCC can take most of The University of Montana's and other four-year schools' requirements for the first two years. There are three options in Wildlife Biology at The University of Montana: terrestrial, aquatic, and honors. The course of study recommended below is suggested for all three options. The Fish and Wildlife Management option at **Montana State University - Bozeman** prepares students for entry-level positions in natural resources management and graduate work. Montana State University's program emphasizes basic principles of animal ecology with considerable work in related fields.

Associate of Science Degree

Suggested course of study for a transfer to
The University of Montana – Missoula:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems[1]	4
___	CHMY	121NL*	Introduction to General Chemistry	4
___	CHMY	123NL*	Introduction to Organic and Biochemistry	4
___	COMX	111C	Introduction to Public Speaking	3
___	WRIT	101W*	College Writing I	3
___	WRIT	201W*	College Writing II	3
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			First Year Total	**30**

Second Year

✔	Course	#	Title	Credits
___	BIOB	260NL*	Cellular and Molecular Biology	5
___	BIOB	272N*	Genetics and Evolution	4
___	BIOO	235NL	Rocky Mountain Flora[2]	
	or			
___	_____	____	Electives	3
___	M	162M*	Applied Calculus	5
___	STAT	216M*	Introduction to Statistics	4
___	WILD	270N	Wildlife Habitat and Conservation[3]	3
___	_____	____	Fine Arts (F) or Humanities (H) Requirement	3
___	_____	____	Social Sciences (B) Requirement	3
			Second Year Total	**30**
			Total Credits	**60**

[1] BIOB 160NL is required for the major but BIOB 170N*/171L* are required for the minor, so students could take both to provide for flexibility at UM.
[2] Not required for the Aquatics option.
[3] Only required for a minor.
*Indicates prerequisite and/or corequisite needed.
Check course description.

Suggested course of study for a transfer to
Montana State University – Bozeman:

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	BIOB	170N*	Principles of Biological Diversity	3
___	BIOB	171L*	Principles of Biological Diversity Lab	2
___	CHMY	121NL*	Introduction to General Chemistry	4
___	CHMY	123NL*	Introduction to Organic and Biochemistry	4
___	COMX	111C	Introduction to Public Speaking	3
___	WRIT	101W*	College Writing I	3
___	WRIT	201W*	College Writing II	3
___	_____	____	Humanities (H) Requirement	3
___	_____	____	Social Sciences (A) Requirement	3
			First Year Total	**32**

Second Year

✔	Course	#	Title	Credits
___	BIOB	275N*	General Genetics	4
___	ECNS	101B	Economic Way of Thinking	3
___	ENSC	245NL	Soils	
	or			
___	GPHY	111NL	Introduction to Physical Geography	
___	M	162M*	Applied Calculus	4
___	PHSX	205NL*	College Physics I	5
___	STAT	216M*	Introduction to Statistics	4
___	_____	____	Global Issues (G) Requirement	3
___	_____	____	Humanities (H) or Fine Arts (F) Requirement	3
			Second Year Total	**31**
			Total Credits	**63**

*Indicates prerequisite and/or corequisite needed.
Check course description.

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The information on all transfer programs is subject to change. Students should see their advisor to explore other possibilities not specifically listed in the program.

Transfer Notes for Associate of Science Degree Students

The Associate of Science (AS) degree requires 60 credits at FVCC, and the Bachelor of Science (BS) degree at Montana University System (MUS) colleges and universities requires 120 credits. FVCC students can usefully earn as many as 75-85 credits in preparation for many transfer majors, thus reducing the number of credits required for the BS degree at MUS schools. Also, by earning the AS degree from FVCC, students will have satisfied the lower division **General Education Core** (see page 44 for requirements) for all MUS institutions and will not be required to meet additional lower division general education core requirements upon transfer. The suggested course load in AS programs is rigorous and is recommended for only the most prepared students. A more moderate semester credit load can be achieved by taking general education core courses during summer terms or completing one or two additional semesters at FVCC before transfer.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science (AAS) degree is an occupational degree and is the only degree FVCC awards with a specified area of emphasis.

To receive the Associate of Applied Science degree, the following must be met:

I. Completion of a minimum of 64 semester credit hours.
II. Completion of course requirements as outlined for the specific AAS program listed in the "Programs" section of the catalog, which include three Related Instruction requirements: Communication (one speaking, one writing), Interactions, and Quantitative Literacy.
III. Final cumulative grade point average of 2.0 or above. A grade of "C-" or better is required for all program requirements unless otherwise stated.
IV. At least 20 semester credits earned at FVCC and the final 10 credits earned at FVCC.
V. A limit of 15 semester credits graded "S" may count toward the Associate of Applied Science degree. Some programs may further limit "S" grades.
VI. Courses within the department "SR" (Senior) cannot be used toward an AAS degree.

Note: Substitutions for Related Instruction requirements must have Program Director and Curriculum Committee approval.

(One course cannot satisfy more than two Related Instruction areas.)

CERTIFICATE OF APPLIED SCIENCE REQUIREMENTS (CAS)

To receive a Certificate of Applied Science, the following must be met:

I. Completion of a minimum of 30 semester credit hours for each certificate.
II. Completion of course requirements as outlined for the specific CAS program listed in the "Programs" section of the catalog, which include three Related Instruction requirements: Communication (only one course required, speaking or writing), Interactions, and Quantitative Literacy.
III. Final cumulative grade point average of 2.0 or above. A grade of "C-" or better is required for all program requirements unless otherwise stated.
IV. At least one-third of the program credits must be earned at FVCC.
V. Courses within the department “SR” (Senior) cannot be used toward a CAS.

Note: Substitutions for Related Instruction requirements must have Program Director and Curriculum Committee approval.

(One course cannot satisfy more than two Related Instruction areas.)

CERTIFICATE REQUIREMENTS (CT)

To receive a Certificate, the following must be met:

I. Completion of a minimum of 16 semester credit hours.
II. Completion of course requirements as outlined for the specific CT program listed in the “Programs” section of the catalog.
III. Final cumulative grade point average of 2.0 or above. A grade of "C-" or better is required for all program requirements unless otherwise stated.
IV. At least one-third of the program credits must be earned at FVCC.
V. Courses within the department “SR” (Senior) cannot be used toward a certificate.

COMMUNICATION COURSES: (two courses)

A - Speaking (one course)		B - Writing (one course)	
AHXR	101*	BMGT	237
BGEN	110	CJLE	109C
BMKT	131*	WRIT	101W*
BMKT	132*	WRIT	121C*
COMX	111C	WRIT	122C*
COMX	115C		
COMX	150CF		
COMX	215		
CULA	148*		
GDSN	250		
GDSN	274*		
IDS	135C		
NRSG	144*		

INTERACTIONS COURSES: (one course)

AHMA	206*	CULA	250*
AHMS	175	ECNS	202GB
AHPT	105	ECP	104
AHXR	295*	ENST	285
ARTH	200FGH	GDSN	247*
ARTJ	234*	GDSN	249*
ARTJ	280*	HS	100A*
BMGT	237	IAFS	202:Fall
BMKT	244*	IAFS	202:Spring
CJUS	121A	NRSG	138*
COMX	115 C	NRSM	271GN
COMX	215	SRVY	270*
CSTN	198*(6 cr.)	WRIT	122C*

QUANTITATIVE LITERACY COURSES: (one course)

ACTG	122
ACTG	124*
AHMS	100*
AHXR	108N*
BFIN	220*
BFIN	222*
BFIN	224*
CMPA	274*
CULA	220*
FORS	153*
FORS	272*
M	090*
M	095*
M	108*
M	111*
M	115M*
M	121M*
M	123*
M	145Q*
NRSM	101
PTRM	201
TASK	145

**Prerequisite*

RELATED INSTRUCTION LEARNING OUTCOMES

The goal of Related Instruction at FVCC is to prepare students for a productive life of work by developing skills in the areas of communication, computation, and human relations that align with and support program specific outcomes. Related Instruction courses are embedded within the AAS and CAS program curricula and are organized into three categories: Communication, Interactions, and Quantitative Literacy.

COMMUNICATION

Upon completion of the Communication Related Instruction requirement, students should be able to express, interpret, or modify ideas to communicate effectively.

Components:

A. Speaking
- Develop the main point of a speech/presentation with specific, concrete examples and details
- Present in an organized manner, connecting sections with effective transitions
- Use appropriate delivery strategies and techniques
- Use outside sources, vocabulary and visual aids with accuracy and relevancy

B. Writing
- Effectively use relevant, adequate support details, examples, reasons, logical arguments, facts, and/or statistics
- Organize and connect major ideas with effective transitions
- Use a variety of sentence structures and appropriate word choice in the expression of ideas for readers and purposes
- Use appropriate conventions in areas of mechanics, usage, sentence structure, spelling and format

INTERACTIONS

Upon completion of the Interactions Related Instruction requirement, students should be able to collaborate with others in complicated, dynamic, and/or ambiguous situations.

Components:

A. Improve the Self
- Demonstrate responsibility/accountability for one's actions/thoughts/emotions

B. Exhibit Effective Interpersonal Communication
- Actively listen using paraphrasing, questions, and reflections
- Recognize that conflict is natural and demonstrate competent methods/strategies of conflict management

C. Make Ethical Decisions
- Assess the moral issues and principles involved in ethical situations

QUANTITATIVE LITERACY

Upon completion of the Quantitative Literacy Related Instruction requirement, students should be able to understand and apply quantitative concepts and reasoning using numerical data.

Components:

A. Ratios and Percents
- Recognize problems as ratios or proportions
- Use proportional reasoning, when appropriate

B. Graphical Interpretation
- Collect and identify information from graphical representations of data using appropriate terminology/units of measurement
- Evaluate graphical information and interpolate and/or extrapolate as necessary
- Recognize trends in data from a graphical display

C. Problem Solving
- Represent mathematical information symbolically and numerically as needed to solve a problem
- Evaluate results for acceptable solutions and communicate findings using appropriate mathematical language and symbolism.

Career and Technical Degrees and Certificates

Career and technical degrees and certificates prepare students for rewarding careers upon graduation. These career-specific programs range from one semester to two years in length.

Associate of Applied Science Degrees (AAS)

Associate of Arts Degree (AA)

Associate of Science Nursing Degree (ASN)

Certificates of Applied Science (CAS)

Certificates (CT)

Accounting Technology

Associate of Applied Science Degree

This program is designed to give the student a high level of proficiency as a technical accountant and leads to an Associate of Applied Science degree in Accounting Technology. A technical accountant will possess the skills necessary to perform all accounting functions within the business organization except those of a very advanced nature. The student receives a well-rounded business education and should be able to perform organizational and supervisory duties within the office. Upon completion of the program, students will:

- Understand different types of business organizations;
- Understand the internal control structure of a business organization;
- Analyze and record financial transactions in a manual and computerized general ledger;
- Prepare financial statements according to generally accepted accounting standards;
- Analyze and prepare financial information for management decision making;
- Prepare personal income tax returns;
- Process payroll transactions in accordance with current payroll reporting requirements;
- Develop and apply flexible solutions to accounting problems with the use of spreadsheets;
- Complete tasks for the accounting cycle using general ledger accounting software; and
- Communicate financial information effectively within a business environment.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	BMGT	237	Human Relations in Business	3
___	COMX	115C	Introduction to Interpersonal Communication	3
___	M	121M*	College Algebra	3
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	180*	Payroll Accounting	2
___	ACTG	202*	Principles of Managerial Accounting	4
___	BGEN	235	Business Law	4
___	BMIS	211*	Introduction to Business Decision Support	4
___	ECNS	201B	Principles of Microeconomics	3
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	205*	Computerized Accounting	2
___	ACTG	211*	Income Tax Fundamentals	4
___	ACTG	231*	Applied Accounting	2
___	ACTG	241*	Intermediate Financial Accounting I	4
___	BMIS	270*	MIS Foundations for Business	3
			First Semester Total	**15**

If you are considering transfer to a four-year college, some of the courses will transfer as electives only. ***See your advisor.*** *If you are going to graduate in the current academic year,* ***you must see an advisor in the Business Division*** *prior to enrolling fall semester.*

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	207*	Advanced Accounting on Microcomputers	2
___	ACTG	210*	Cost and Advanced Accounting	4
___	ACTG	298*	Internship	3
___	BFIN	260*	Principles of Finance	4
___	_____	____	Elective(s) - ACTG, BFIN, CAPP, CMPA	4
			Second Semester Total	**17**
			Total Credits	**65**

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- An internship is required for this program. Students must apply for internship placements for this program the prior semester. See page 25 for more information and application deadlines.
- Students enrolled in this program may participate in a Service Learning opportunity, which could qualify them to be eligible to receive an education award. For more information, please contact the AmeriCorps office at (406) 756-3908.

General Academic Requirements

- All required courses within this degree program must be taken for a letter grade. Only electives may be taken on a Satisfactory/Unsatisfactory (S/U) basis.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- Graduates work as bookkeepers, accounts payable/receivable clerks, staff accountants and office managers. The majority of new jobs will be created in small, rapidly growing organizations. Many opportunities for temporary and part-time work should be available. Experienced bookkeeping and accounting clerks may move into management positions.

Advisor:
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rlaudati@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Accounting Technology

Certificate of Applied Science

(Also offered at Lincoln County Campus)

The following curriculum develops the competencies needed for success as an entry level bookkeeper and may serve as the basis for further courses leading toward a full-charge bookkeeper. Upon completion of the program, students will:

- Understand different types of business organizations;
- Understand the internal control structure of a business organization;
- Prepare financial statements according to generally accepted accounting standards;
- Complete tasks for the accounting cycle using general ledger accounting software;
- Communicate financial information effectively within a business environment; and
- Record financial transactions in a manual and computerized general ledger.

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	BGMT	237	Human Relations in Business	3
___	CAPP	103	Short Courses: QuickBooks Fundamentals	1
___	CAPP	104*	Short Courses: Advanced QuickBooks	1
___	CAPP	156*	MS Excel	3
___	M	108*	Business Mathematics	4
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	122	Accounting and Business Decisions	2
___	ACTG	150*	Accounting on Microcomputers	3
___	ACTG	180*	Payroll Accounting	2
___	ACTG	202*	Principles of Managerial Accounting	4
___	ACTG	205*	Computerized Accounting	2
___	CAPP	118*	Short Courses: MS Access	1
___	WRIT	122C*	Introduction to Business Writing	3
			Second Semester Total	**17**
			Total Credits	**33**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- Students enrolled in this program may participate in a Service Learning opportunity, which could qualify them to be eligible to receive an education award. For more information, contact the AmeriCorps office at (406) 756-3908.

General Academic Requirements

- All courses within the certificate must be taken for a letter grade. No courses may be taken on a Satisfactory/Unsatisfactory (S/U) basis.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- This certificate will prepare students for entry level positions in bookkeeping, accounts payables or receivables, or as billing clerks or office assistants. Opportunities for advancement will grow with increased skills and experience.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Advisors:

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For general information, contact the Admissions office: (406) 756-3847.

If you are considering transfer to a four-year college, some of the courses will transfer as electives only. ***See your advisor.*** *If you are going to graduate in the current academic year,* ***you must see an advisor in the Business Division*** *prior to enrolling fall semester.*

Advanced Manufacturing
Certificate Programs

The advanced manufacturing stackable credentials were designed with extensive input from community manufacturers to enhance the local workforce market.

The credentials begin with Level I, which focuses on pre-employment and the cooperation, communication and critical thinking skills needed for dynamic team interactions. The Level I curriculum is the same for all advanced manufacturing students.

Level II is the entry into the technical skills for industrial maintenance, machining and electronics. The Level III program is developed to provide advanced skills in the respective areas.

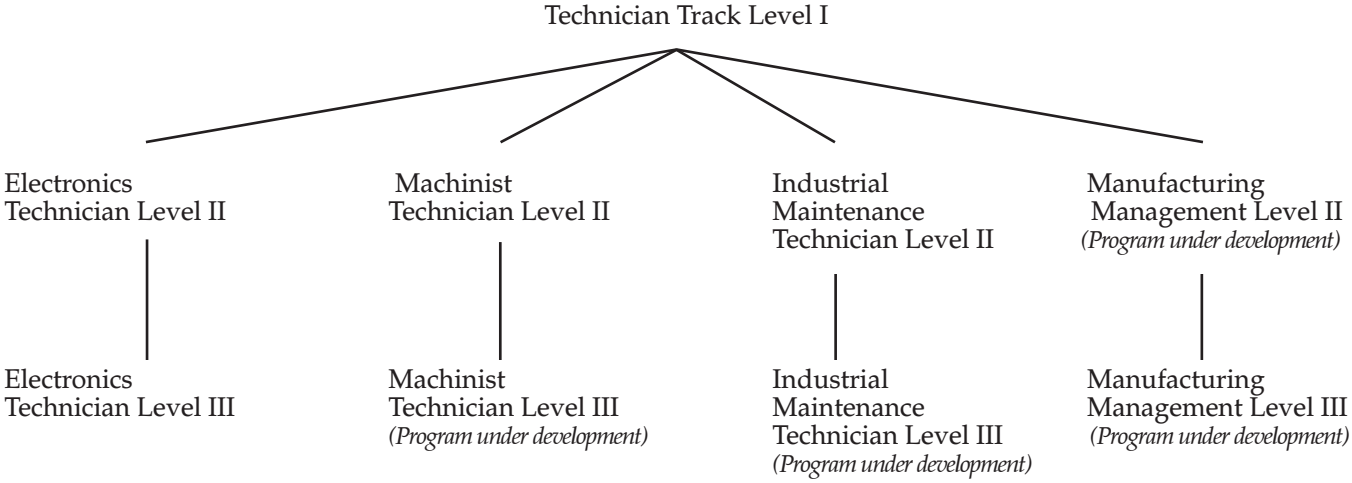
The Level IV capstone semester, when developed, will be a project-oriented program with areas of design, re-design, fabrication and more developed experiences with equipment.

Community manufacturers will continue to provide input into these programs by participating in roundtable discussions with students regarding local workforce and internship opportunities. The manufacturers also will partner with FVCC instructors by serving on skills panels to help determine the types and levels of skills that will be required for graduates to succeed in the advanced manufacturing workforce. The stackable credentials will allow students to achieve levels of competency within one semester depending on their skill levels and academic direction.

The curriculum for these certificates was developed following the advanced manufacturing tracks designed through a TAACCCT Round 1 grant in the state of Washington and the Center of Excellence for Aerospace and Advanced Materials Manufacturing. The state of Washington has served as an instrumental resource in the development of the structure of the advanced manufacturing program at FVCC.

"Amplifying Montana's Advanced Manufacturing and Innovation Industry" Trade Adjustment Assistance Community College and Career Training Grants Program (Grant Agreement #TC-23760-12-60-A-30) was awarded on October 1, 2012. One focus of the $3 million grant is stackable credentials in advanced manufacturing. The grant also provided over $350,000 in new equipment for the advanced manufacturing program at FVCC.

Advanced Manufacturing Certificate Programs



Technician Track Level I

Certificate

The Industrial Machine Technology Technician Track Level I Certificate program provides instruction in core capabilities, problem solving, team dynamics, and communication as it relates to the manufacturing workplace. This program teaches the skills necessary to apply appropriate machine safety precautions and maintain personal health and safety in the manufacturing workplace. Upon completion of this program, students will:

- Read and understand the various symbols and features of a blueprint;
- Describe various machinery used in manufacturing industries;
- Recognize one's strengths and shortcomings in relation to workplace safety and collaborate with others in providing emergency care;
- Apply basic mathematical operations, principles, and concepts to technical mathematical situations and problems;
- Communicate effectively one-on-one;
- Use operating systems, word processing, spreadsheets, databases, and presentation software appropriate to the manufacturing workplace; and
- Collaborate with others to apply appropriate problem solving techniques in a manufacturing setting.

Interim Session

✔	Course	#	Title	Credits
___	MCH	101	Introduction to Manufacturing Processes	1
___	MFGT	115	Machine Shop Fundamentals	2
			Interim Session Total	**3**

First Semester

✔	Course	#	Title	Credits
___	CAPP	106*	Short Courses: Computer Applications	1
___	COMX	115C	Introduction to Interpersonal Communication	3
___	ECP	104	Workplace Safety	1
___	IDS	135C	Thinkering: How to Problem Solve	3
___	M	111*	Technical Mathematics	3
___	MCH	120	Blueprint Reading and Interpretation for Machining	2
___	MCH	129*	Machine Quality Control and Precision Measurements	3
			First Semester Total	**16**
			Total Credits	**19**

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- Completion of Technician Track Level I Certificate AND Machinist Technician Level II Certificate is equivalent to completing the Industrial Machine Technology Computer (CNC) Numerical Control Certificate of Applied Science.
- It is recommended that students complete the Technician Track Level I Certificate before entering any of the Level II certificate programs.

Certifications

- Students who complete the Technician Track Level I Certificate program should be ready to sit for the National Career Readiness Certificate.
- American Red Cross First Aid/CPR Certification

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- Many opportunities exist for entry level machinists and manufacturing technicians in Flathead County and beyond. Industries such as semiconductor machinery manufacturing, machine shops, and small arms manufacturing have all seen employment growth in recent years. Flathead manufacturing employment grew by 4.8% in 2011. Job openings will also be generated by the need to replace retiring workers.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

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For general information, contact the Admissions Office: (406)756-3847.

Electronics Technician Level II

Certificate

This program is designed to give students the skills necessary for job attainment, as well as interpersonal skills, to prepare them for placement into an entry-level electronics technician position. The student gains theoretical knowledge and hands-on experience with electrical circuits. Upon completion of this program, students will:

- Read and describe the characteristics of basic circuitry and compute circuit capacity;
- Demonstrate wiring design and identify basic electrical components;
- Explain how electrical systems are safely designed;
- Describe the electrical equipment employed, all in the context of the National Electrical Code;
- Use appropriate electronic equipment to probe electrical circuits;
- Collect, analyze, and interpret electrical information from circuits;
- Collect, analyze and present results in accepted written form;
- Design and construct basic circuits;
- Use mathematical techniques to problem solve; and
- Demonstrate mathematical proficiency pertaining to analysis and presentation of electrical circuits.

Fall Semester

✔	Course	#	Title	Credits
___	EELE	101*	Introduction to Electrical Fundamentals	2
___	ELCT	110	Basic Electricity I	5
___	ELCT	103*	Electrical Code Study/Codeology	3
___	M	121M*	College Algebra	3
	or			
___	M	152M*	Precalculus Algebra	4
___	PHSX	110*	Applied Physics	4
			Total Credits	**17-18**

*Indicates prerequisite and/or corequisite needed. Check course description.

Admission Guidelines

- It is recommended that students complete the Technician Track Level I Certificate before entering the Level II program.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester course schedule.

Opportunities after Graduation

- In Flathead County, employment opportunities in electronics manufacturing have grown over 70% since 2006.
- Typical wages for electronics technicians are above average in the state and nationally.
- Electronics industry continues to change and grow providing opportunity for personal and professional growth.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Electronics Technician Level III

Certificate

This program is designed to give students the skills necessary for job attainment, as well as interpersonal skills, to prepare them for placement into an advanced-level electronics technician position. The student gains theoretical knowledge and hands-on experience with advanced electronics including controllers and the machine/system interface. Upon completion of this program, students will:

- Describe semiconductor elements and digital electronic components;
- Employ appropriate mathematics for the design and analysis of analog and digital circuits;
- Troubleshoot analog and digital circuits using standard and specialized test equipment;
- Work efficiently and effectively with AC and DC circuits;
- Describe the basic components of a Programmable Logic Controller;
- Program and troubleshoot PLC systems for basic system control; and
- Demonstrate PLC control of common industrial systems.

Spring Semester

✔	Course	#	Title	Credits
___	EET	205*	Solid State Electronics	4
___	EET	227*	Digital Electronics	4
___	EET	237	Programmable Logic Controllers	4
___	ELCT	102*	Electrical Fundamentals II	4
			Total Credits	**16**

*Indicates prerequisite and/or corequisite needed. Check course description.

Admission Guidelines

- It is recommended that students complete the Technician Track Level I Certificate before entering the Level II program.

Additional Costs

- There are lab fees associated with the courses in this program. They are listed in the semester schedule.

Opportunities after Graduation

- In Flathead County, employment opportunities in electronics manufacturing have grown over 70% since 2006.
- Typical wages for electronics technicians are above average in the state and nationally.
- Electronics industry continues to change and grow providing opportunity for personal and professional growth.

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For general information, contact the Admissions office: (406) 756-3847.

Industrial Machine Technology

Machinist Technician Level II Certificate

The Machinist Technician Certificate program provides instruction in the theory, operation and programming of both manual and CNC mills and lathes. This program teaches the skills necessary to pursue an entry level career as an Industrial Machine operator. Upon completion of this program, students will:

- Use tools and equipment to form and machine various materials in a manufacturing laboratory environment;
- Understand precision measurement and quality control procedures in both a theoretical and practical sense;
- Apply appropriate problem solving techniques in a manufacturing setting;
- Understand the fundamental concepts and processes associated with various software and how the software interfaces with CNC machines; and
- Set up CNC machines to perform various machining operations.

January Interim Session

✔	Course	#	Title	Credits
___	MCH	121	Mill and Lathe Systems	4
			Interim Session Total	**4**

Spring Semester

✔	Course	#	Title	Credits
___	DDSN	135	Solidworks	2
___	MCH	124	Advanced CNC Programming in MASTERCAM	3
___	MCH	125*	Intro to HAAS CNC TL1 Lathe Operations	3
___	MCH	126*	Advanced Mill and Lathe Systems	3
___	MCH	127*	HAAS CNC TM1 Mill Operations	3
			Spring Semester Total	**14**
			Total Credits	**18**

Optional Course Offering:

___	MCH	298*	Internship: Advanced Manufacturing	1

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- It is recommended that students complete the Technician Track Level I Certificate before entering the Level II program.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.
- An internship is optional for this program. Students must apply for internship placements for this program the prior semester. See page 25 for more information and appplication deadlines.

Opportunities After Graduation

- CNC machinists work in machinery and machine tool manufacturing, small arms manufacturing, and machine shops. Growth in the manufacturing industry and the need to replace an aging workforce should provide opportunities for graduates. In Montana, employment of CNC machinists is projected to increase by 44% between 2010 and 2020. Both state and national projected employment growth exceeds the rate of overall projected employment growth.

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Industrial Maintenance Technician

Level II Certificate

Industrial maintenance refers to the career path of providing repair and construction support to manufacturing and other industries that include mechanical processes as part of daily operations. The industrial maintenance field has experienced and is projected to grow at above average rates over the next 10 years. An industrial mechanic employs a wide range of skills including welding, machining, carpentry and electrical knowledge to maintain systems. Upon completion of this program, students will:

- Effectively employ general construction techniques to complete building and carpentry projects;
- Execute proper and safe use of construction and woodworking tools;
- Recite and put into practice knowledge of safe work habits for welding and cutting of metal;
- Set-up and use welding and cutting equipment for fabrication of metal projects combining all welding positions;
- Employ both manual and CNC Mill and Lathe systems in building designated projects;
- Identify the basic electrical properties and the equipment that produces those properties; and
- Describe the characteristics of basic circuitry, compute system capacities, and efficiently construct/repair circuits.

Fall Semester

✔	Course	#	Title	Credits
___	CSTN	104	Short Course: Woodworking and Design Construction	1
___	CSTN	195	Field Experience: Carpentry	4
___	ELCT	110	Basic Electricity I	5
___	MCH	121	Mill and Lathe Systems	4
___	WLDG	111*	Welding Theory I Practical	4
			Total Credits	**18**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- Large-scale manufacturing, energy generation, petroleum refining, chemical processing, and wood products all employ mechanical systems that require maintenance. This program provides a student with the necessary instruction to meet the wide range of topics encountered in industry by maintenance personnel.

Admission Guidelines

- Students must complete the Technician Track Level I for admission into the Level II program.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities after Graduation

- Industrial maintenance (machinery mechanics) is projected to grow 15-30% over the next 10 years in Montana.
- Machinery mechanics can earn above average wages.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Advisor:
Pete Wade, OT 108, (406) 756-3968, pwade@fvcc.edu

For general Information, contact the Admissions Office: (406) 756-3847.

Auto Body Technology

Certificate

The Auto Body Technology Certificate provides training in the field of automotive collision repair and refinishing. The program offers a comprehensive combination of automotive collision theory integrated with hands-on instruction to repair automobiles. Upon completion of this program, students will:

- Identify and employ tools and equipment used in the Collision Repair field;
- Choose the correct materials to be used in the repair of modern vehicles;
- Demonstrate a sense of responsibility by wearing proper work attire, attending class and completing assignments on time;
- Understand proper use and application of refinishing materials;
- Join/weld panel components to industry standards;
- Remove creases and dents using power tools and hand tools to restore damaged areas to proper contours and dimensions;
- Determine the extent of damage to structural steel body panels; repair or replace; and
- Remove and replace damaged sections of structural steel body panels in accordance with manufacturer's specifications/procedures.

Fall Semester

✔	Course	#	Title	Credits
___	ABODY	100	Collision Repair Conduct/ Safety/Equipment	2
___	ABODY	102	Non-Structural Repairs I	3
___	ABODY	104	Auto Collision Mechanics	3
___	ABODY	106	Surface Preparation and Painting I	3
___	COMX	115C	Introduction to Interpersonal Communication	3
			First Semester Total	**14**

Spring Semester

✔	Course	#	Title	Credits
___	ABODY	108	Introduction to Plastics and Adhesives	2
___	ABODY	110*	Non-Structural Repairs II	3
___	ABODY	112*	Auto Painting and Refinishing II	3
___	WLDG	122*	Welding Theory III Practical	4
			Second Semester Total	**12**
			Total Credits	**26**

Optional Course Offerings

___	ABODY	198*	Internship: Basic Auto Body	1
___	ABODY	298*	Internship: Advanced Auto Body	1

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- An internship is optional for this program. Students must apply for internship placements for this program the prior semester. See page 37 for more information and application deadlines.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

The range of job opportunities and skill needs is diverse, including:

- Collision repair technicians
- Automotive refinish technicians
- Shop service writers
- Collision repair sales
- Automotive glass installers

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

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Building Trades

Associate of Applied Science Degree
Certificate of Applied Science

This is a program of study oriented toward preparing a student for entry level positions within the Building Trades field. The program encompasses all trades involved with the construction of a single-family residence including layout, framing, electrical, plumbing, roofing and finish. The program is offered as a one-year Certificate of Applied Science or two-year Associate of Applied Science (AAS) degree program. Graduates of the Building Trades program will be able to:

- Solve construction problems using accepted principles, tools and skills;
- Apply techniques and principles appropriate to building science;
- Investigate basic construction business operational strategies;
- Model professional and ethical behavior;
- Demonstrate appropriate interpersonal relationship skills;
- Analyze the environmental impacts of building practices; and
- Apply safety practices and procedures in the work area.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CSTN	130++	Introduction to Building Trades I	3
___	CSTN	131*++	Building Trades Field Experience I	10
___	M	111*++	Technical Mathematics	3
___	WRIT	122C*++	Introduction to Business Writing	3
			First Semester Total	**19**

Spring Semester

✔	Course	#	Title	Credits
___	CAPP	106*++	Short Courses: Computer Applications	1
___	CSTN	140*++	Introduction to Building Trades II	3
___	CSTN	141*++	Building Trades Field Experience II	10
___	ECP	104++	Workplace Safety	1
			Second Semester Total	**15**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BMGT	237	Human Relations in Business	3
___	COMX	111C	Introduction to Public Speaking	
	or			
___	COMX	115C	Introduction to Interpersonal Communication	3
___	CSTN	271*++	Construction Project Management	6
___	DDSN	114*	Introduction to CAD	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	BMGT	235	Management	3
___	CSTN	281*++	Construction Project Management II	6
___	WLDG	111*	Welding Theory I Practical	4
___	____	____	CAPP Elective	1
___	_____	____	Elective(s)	2
			Second Semester Total	**16**
			Total Credits	**65**

++Required courses for a one-year Certificate of Applied Science.
* Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- Building Trades (CSTN) classes meet four hours per day, five days per week.
- The Certificate of Applied Science will be completed at the end of the first year.

General Academic Requirements

- Students in the Building Trades program must earn a "C-" or better in all Building Trades (CSTN) classes.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Admission Guidelines

- This program is open to all students. See college admissions requirements on page 7.

Opportunities After Graduation

- Graduates with certificates may start as construction helpers or as electrician or plumbing apprentices. Further education and experience will offer many opportunities for advancement.

Certification

- American Red Cross First Aid/CPR Certification

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Advisor:
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For general information, contact the Admissions office: (406) 756-3847.

Business Administration

Associate of Applied Science Degree

(Also offered at Lincoln County Campus)

This program is designed to give the student a high level of proficiency as a technical business manager/marketer and leads to an Associate of Applied Science degree in business administration. Upon completion of this program, students will:

- Read, understand, explain, and use basic financial statements to make management and marketing decisions;
- Be able to use Microsoft Office, Word, and Excel as related to business applications;
- Explain how marketing relates to the overall management and success of a business enterprise;
- Understand and apply basic business law applications to daily business operations and personnel;
- Develop a basic business plan, marketing plan and financial projections as commonly used in business; and
- Explain the importance of Human Resource Management to the overall management of an organization including job analysis, job descriptions, job specifications, hiring, training, and employee appraisal.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	BMGT	237	Human Relations in Business	3
___	BMIS	211*	Introduction to Business Decision Support	4
___	BMKT	225	Marketing	3
___	COMX	111C	Introduction to Public Speaking	
	or			
___	COMX	115C	Introduction to Interpersonal Communication	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	202*	Principles of Managerial Accounting	4
___	BMGT	235	Management	3
___	ECNS	201B	Principles of Microeconomics	3
___	M	095*	Intermediate Algebra	4
___	WRIT	122C*	Introduction to Business Writing	3
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	180*	Payroll Accounting	2
___	BGEN	235	Business Law	4
___	CAPP	112*	Short Courses: MS PowerPoint	1
	and			
___	CAPP	116*	Short Courses: MS Excel	1
	and			
___	CAPP	118*	Short Courses: MS Access	1
	or			
___	CAPP	156*	MS Excel	3
___	ECNS	202GB	Principles of Macroeconomics	3
___	_____	____	Electives: Take one class from: ACTG, CAPP, or CMPA	3
			First Semester Total	**15**

If you are considering transfer to a four-year college, some of the courses will transfer as electives only. ***See your advisor.*** *If you are going to graduate in the current academic year,* ***you must see an advisor in the Business Division*** *prior to enrolling fall semester.*

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	150*	Accounting on Microcomputers	3
___	BFIN	260*	Principles of Finance	4
___	BGEN	110	Applied Business Leadership	3
___	BGEN	280*	Business Planning	3
___	BGEN	299*	Capstone	3
			Second Semester Total	**16**
			Total Credits	**65**

Optional Course Offering

✔	Course	#	Title	Credits
___	BGEN	298*	Internship	3

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- An internship is optional for this program. Students must apply for internship placements for this program the prior semester. See page 25 for more information and application deadlines.
- The program provides technical business manager/marketer skill development.
- The program provides primary training for entry level management/supervisory positions.

Evening Option

- A student going to class part-time in the evenings only should be able to complete the Business Administration or Small Business Management AAS degree in eight semesters or less.

General Academic Requirements

- All required courses within the degree program must be taken for a letter grade. No courses may be taken on a Satisfactory/Unsatisfactory (S/U) basis.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Admission Guidelines

- This program is open to all students. See college admissions requirements on page 7.

Opportunities After Graduation

- This degree prepares graduates for employment in entry level management positions with both small and large businesses in retail, wholesale trade, manufacturing or banking industries along with local and state governments. Graduates may work as employment specialists, cashiers, administrative assistants, shipping/receiving, project managers, assistant managers or management trainees. Growth opportunities vary with industry.

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Business Administration

Certificate of Applied Science

(Also offered at Lincoln County Campus)

The following curriculum develops entry level competencies necessary for supervisory positions. The curriculum also provides a foundation for the student who may desire to seek a two-year Business Administration AAS degree at a future date. Upon completion of this program, students will:

- Read, understand, explain and use basic financial statements to make management decisions;
- Use Microsoft Office, Word and Excel as related to business applications;
- Explain how marketing and management are interrelated to overall success of a business; and
- Explain the importance of human relations to the overall management of an organization including job analysis, job descriptions, job specifications, hiring, training, employee appraisal, and discipline.

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	BMGT	235	Management	3
___	BMIS	211*	Introduction to Business Decision Support	4
___	BMKT	225	Marketing	3
___	COMX	115C	Introduction to Interpersonal Communication	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	202*	Principles of Managerial Accounting	4
___	BGEN	299*	Capstone	3
___	ECNS	201B	Principles of Microeconomics	
	or			
___	ECNS	202GB	Principles of Macroeconomics	3
___	M	095*	Intermediate Algebra	4
___	WRIT	122C*	Introduction to Business Writing	3
			Second Semester Total	**17**
			Total Credits	**34**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- Technical business manager/marketer skill development.
- Primary for entry level management/supervisory positions.

General Academic Requirements

- English and math placement exams are required for admission to some core courses.
- All courses within the certificate must be taken for a letter grade. No courses may be taken on a Satisfactory/Unsatisfactory (S/U) basis. Final grade point average of 2.0 or above is required for completion of the certificate.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Admission Guidelines

- Open to all students. See college admissions requirements on page 7.

Opportunities After Graduation

- This certificate will prepare students for entry level positions assisting managers with customer service, sales or marketing. Faster than average growth is anticipated for this industry both nationwide and in Montana.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Advisor:
Chris Hanchett
BSS 107
(406) 756-3857
chanchet@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Cabinet and Furniture Technology

Certificate of Applied Science

The Cabinet and Furniture Technology program prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install, and repair wood cabinets and fixtures using hand and power tools. Additional emphasis is provided in the design and construction of fine furniture items. The program also includes instruction in areas such as material selection, estimating, blueprint reading, and finishing techniques. Upon completion of this program, students will:

- Demonstrate the proper and safe use of hand and portable power tools;
- Demonstrate the use of wood as a material in the proper construction of various fine cabinet and furniture projects;
- Demonstrate safe practice in the use and set-up of trade machinery;
- Demonstrate skill in the use of automated drafting and design in order to produce project drawings and employ CNC routers;
- Read and interpret shop blueprints in order to develop accurate material lists;
- Demonstrate knowledge of finishing materials along with the skills required for wood finishing including: wood preparation, wood coloring using various stains and top coating using oil finishes, shellacs, varnishes, and lacquers;
- Demonstrate the ability to list and prepare millwork items required for various building projects; and
- Demonstrate the ability to produce jigs and fixtures required for the production of cabinets and furniture projects.

Fall Semester

✔	Course	#	Title	Credits
___	CSTN	125	Basic Cabinetry and Furniture Making	3
___	DDSN	114	Introduction to CAD	3
___	M	111*	Technical Mathematics	3
___	MCH	120	Blueprint Reading and Interpretation for Machining	2
___	MCH	122	Introduction to MASTERCAM	3
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	CSTN	126*	Intermediate Cabinetry	4
___	CSTN	127*	Intermediate Furniture Making	4
___	CSTN	218*	Advanced CNC Woods Manufacturing	6
___	ECP	104	Workplace Safety	1
			Second Semester Total	**15**
			Total Credits	**32**

Optional Course Offering

✔	Course	#	Title	Credits
___	CSTN	198*	Internship: Basic Cabinetry and Furniture	1

Program Information

- An internship is an option for this program. Students must apply for placements for this program the prior semester. See page 25 for more information and application deadlines.

Admission Guidelines:

- The applicant must complete the COMPASS/ESL test with math and communications scores acceptable for admission to M111* and WRIT 122C*.
- The applicant must possess general computer skills equivalent to CAPP 106*.
- Applicants not meeting the above requirements may be admitted on an extended track to complete remedial math/communications classes before enrolling in M 111* and WRIT 122C*.

Opportunities After Graduation

- Employment as a cabinet or furniture manufacturing technician
- Employment as a finish and trim carpenter
- Employment as a cabinet and counter top installer

Certification

- American Red Cross First Aid/CPR Certification

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Advisor:
Pete Wade
OT 108
(406) 756-3968
pwade@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

*Indicates prerequisite and/or corequisite needed. Check course description.

Criminal Justice

Associate of Applied Science Degree

This program provides a well-rounded general education in criminal justice. The curriculum is designed to assist students in preparation for entry level positions in the criminal justice field. Upon completion of this program, students will:

- Define, describe and analyze the various components of the criminal justice system including the courts, law enforcement and corrections;
- Describe, discuss and identify various causes of crime;
- Critically examine various sources of crime data and patterns;
- Describe and assess multicultural communities; and
- Evaluate, plan and formulate the most effective law enforcement actions to reduce crime.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CJUS	121A	Introduction to Criminal Justice	3
___	CJUS	200	Principles of Criminal Law	3
___	COMX	111C	Introduction to Public Speaking	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	BMIS	211*	Introduction to Business Decision Support	4
___	CJUS	230	Police Organization	3
___	M	095*	Intermediate Algebra	4
___	SOCI	101A	Introduction to Sociology	3
___	____	____	Electives	2
			Second Semester Total	**16**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CHMY	280NL*	Forensic Science I	4
___	CJUS	231*+	Criminal Evidence and Procedure	2
___	CJUS	271*+	Introduction to Judicial Function	1
___	COMX	215	Negotiations/Conflict Resolution	3
___	PSCI	210B	Introduction to American Government	3
___	SOCI	201	Social Problems	
	or			
___	SOCI	220GA	Race, Gender, and Class	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	CHMY	282NL*	Forensic Science II	4
___	CJLE	109C	Police Report Writing	3
___	CJUS	220	Introduction to Corrections	3
___	SOCI	260	Introduction to Juvenile Delinquency	3
___	TASK	113*	Keyboarding and Document Processing	3
			Second Semester Total	**16**
			Total Credits	**64**

+ Indicates courses that must be taken concurrently.

*Indicates corequisite / prerequisite needed.

Optional Course Offering

✔	Course	#	Title	Credits
___	ACT	285*	Handgun Marksmanship	1
___	CJUS	298*	Internship	3

Program Information

- Students enrolled in this program may participate in a Service Learning opportunity, which could qualify them to be eligible to receive an education award. For more information, contact the AmeriCorps office at (406) 756-3908.
- An internship is optional for this program. Students must apply for internship placements for this program the prior semester. See page 25 for more information and application deadlines.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.
- .22-caliber handgun is required for ACT 285* (optional class).

Admission Guidelines

- This program is open to all students. See college admissions requirements on page 7.

Opportunities After Graduation

- Criminal Justice graduates work as bailiffs, security guards, investigators, border patrol agents, and in positions in law enforcement and corrections. Job opportunities in the criminal justice field are greater in Montana compared to the national average.

Advisor:
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rmetcalf@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Culinary Arts

Associate of Applied Science Degree

The Culinary Arts program provides students with entry-level skills in the culinary arts industry. Students receive instruction in cooking and baking, as well as theoretical knowledge that underlines competency in the field. Additional training involves table services, menus, cost controls, storeroom and stewarding. Upon completion of this program, students will:

- Learn and effectively practice basic and advanced technical skills in food preparation and service;
- Explain and apply sanitation guidelines related to food handling;
- Understand usage, storage, nutrition and identification of product;
- Define and describe classic cooking terminology and methods;
- Gain experience in the proper use and maintenance of professional culinary equipment;
- Employ station organization and line management;
- Become familiar with production, layout and workflow of professional kitchens and bakeshops;
- Gain an appreciation for the history, evolution, and international diversity of culinary arts;
- Illustrate skill in completing various components of Front-of-House operations, particularly those related to food and beverage service and customer relations;
- Implement human resource management strategies to increase motivation and productivity;
- Use basic accounting procedures for: creating a financial plan or budget, cost controls, and forecasting or projecting sales; and
- Develop a sense of professionalism and management skills necessary for successfully operating within a foodservice facility.

Please note that there is a mandatory orientation prior to official start of classes. Orientation will be held over four days. Once accepted into the program, students will be notified of the orientation dates.

Fall Semester

✔	Course	#	Title	Credits
___	CULA	103*	Professional Chef I	12
___	CULA	105*	Food Service Sanitation	2
___	CULA	148	Food and Beverage Service	3
___	CULA	298*+	Internship I: Chef's Table	3
___	ID	101	Transition to College	1
			First Semester Total	**18-21**

CULA 103*, CULA 105*, CULA 148*, CULA 298*, and ID 101 require admittance to the program.

+Internship I (CULA 298*) may be registered for either fall or spring semester, but MUST be completed by the end of spring semester of the first year.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Spring Semester

✔	Course	#	Title	Credits
___	CAPP	131*	Basic MS Office	2
___	CULA	104*	Professional Chef II	12
___	CULA	250*	Hospitality Supervision	2
___	CULA	298*+	Internship I: Chef's Table	3
			Second Semester Total	**16-19**

CAPP 131* requires basic computer skills OR taking CAPP 106* as a prerequisite.

+Internship I (CULA 298*) may be registered for either fall or spring semester, but MUST be completed by the end of spring semester of the first year.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Summer Semester

✔	Course	#	Title	Credits
___	CULA	201*	Professional Chef III	12
___	CULA	298*+	Internship II	3
___	WRIT	122C*	Introduction to Business Writing	3
			Third Semester Total	**18**

+Internship II (CULA 298*), for 3 credits, MUST be registered for summer semester and completed by the end of the 2nd year.

Indicates prerequisite and/or corequisite needed. WRIT 122C requires appropriate placement scores or preparatory coursework.

Fall Semester

✔	Course	#	Title	Credits
___	BMGT	210	Small Business Entrepreneurship	3
___	CULA	210*	Nutritional Cooking	2
___	CULA	220*	Purchasing and Cost Control	3
___	CULA	240*	Menu Planning	2
___	CULA	248*	Bar and Beverage Management	2
___	ID	120	Employment Strategies	1
			Fourth Semester Total	**13**
			Total Credits	**68**

M 065* MUST be taken as a prerequisite before registering for CULA 220* if required COMPASS score was not met.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Admission Guidelines

- Before applying, students must first be accepted to Flathead Valley Community College, or, if currently a high school student, supply all application materials and a letter from a school counselor verifying readiness for graduation until such time an official transcript is supplied in May.
- Students must apply for select admission to this program. Applications are available after January 15 from the Admissions Office in Blake Hall, Room 111, and must be completed and returned to the Admissions Office by April 15.

(continued on next page)

- Admission to the program is based upon the following:
  - proof of a score of 78 or higher on the Reading Skills portion of the COMPASS or equivalent placement test
  - proof of a score of 71 or higher on the Writing Skills portion of the COMPASS or equivalent placement test
  - proof of a score of 50 or higher on the Pre-Algebra portion of the COMPASS or equivalent placement test
- Educational Performance in lieu of placement scores (see above):
  - An official copy of transcript proving a "C-" or better in a 100-level or above college course requiring college-level reading
    AND/OR
  - An official copy of transcript proving a "C-" or better in M 065*, its equivalent, or higher math course
    AND/OR
  - An official copy of transcript proving a "C-" or better in WRIT 095*, WRIT 101W*, or WRIT 122C* or their equivalents
- Experience in the culinary field, if any.
- Well-written essay (details provided within application packet).
- References from two people who are not relatives who have knowledge of the student's work ethic, maturity, and passion for culinary arts.

Additional Costs

- There are considerable lab fees associated with some of the classes in this program. These fees cover the cost of food and consumable supplies.
- Uniforms and equipment for the Professional Chef classes must also be purchased by the student.

Opportunities after Graduation

- Graduates will work in restaurants, resorts, schools, hotels and health care facilities. The Flathead Valley offers many job opportunities in the Culinary Arts Industry.

For general information,
contact the Admissions office:
(406) 756-3847.

Customer Service

Certificate

This program is currently on moratorium. No new students will be admitted into this certificate program until further notice.

This endorsement is designed for the employee or employer who desires to enhance their customer service skills. The curriculum provides the basic skills necessary to improve customer service thereby improving profitability of the organization. Upon completion of the program, students will:

- Develop effective customer relations and use correspondence and communications technology in appropriate ways to improve customer service and relations;
- Describe the marketing process and explain the variables that make up the marketing mix;
- Use negotiation techniques to resolve issues with customers and vendors; and
- Use spoken and written communications effectively utilizing appropriate technology.

✔	Course	#	Title	Credits
___	BMGT	245*	Customer Service Management	3
___	BMKT	225	Marketing	3
___	CAPP	118*	Short Courses: MS Access	1
___	COMX	115C	Introduction to Interpersonal Communication	
	or			
___	COMX	215	Negotiations/Conflict Resolution	3
___	TASK	150	Customer Service Strategies	3
___	WRIT	122C*	Introduction to Business Writing	3
			Total Credits	**16**

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- Contact your advisor for program information.

General Academic Requirements

- Must place into WRIT 122C* with a COMPASS score of 75 or above on the Writing test. All courses must be successfully completed with a grade of "C-" or better to complete the certificate.

Additional Costs

- There are no additional costs associated with this certificate.

Admission Guidelines

- This program is open to all students. See college admissions requirements on page 7.

Opportunities After Graduation

- The trend in the business world today is toward improved customer service. This certificate is aimed at helping the employee or employer attain a higher level of customer service in their businesses.

Advisor:
Brenda Rudolph, BSS 106
(406) 756-3858
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For general information,
contact the Admissions office:
(406) 756-3847.

Early Childhood Education

Associate of Applied Science Degree

The Early Childhood Education program provides students with the theoretical and practical knowledge needed to create environments that will maximize the developmental and learning potential of all young children (birth to age 8) using developmentally appropriate practices as a foundation for program planning. Issues of diversity, inclusion and professionalism are intricately woven throughout all of the coursework. Students will have an opportunity to gain experience and knowledge through hands-on participation in early education settings. Upon completion of this program, students will:

- Apply child development theory to practice;
- Observe, record, and assess child growth and development;
- Implement developmentally appropriate curriculum;
- Incorporate developmentally appropriate guidance strategies;
- Integrate health, safety, and nutrition practices according to local, state and national standards;
- Provide a respectful, diverse and inclusive program;
- Use interpersonal skills to develop respectful relationships with children and adults;
- Demonstrate professional and ethical standards; and
- Advocate for children, families and the profession.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	COMX	115C	Introduction to Interpersonal Communication	3
___	EDEC	108	Introduction to Early Childhood Education	3
___	EDEC	130	Health, Safety, and Nutrition in Early Childhood	3
___	EDEC	245	Early Childhood Developmental Themes	3
___	PSYX	100A	Introduction to Psychology	4
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	EDEC	210	Meeting the Needs of Families	3
___	EDEC	235*	Creative Art for the Developing Child	2
___	EDEC	281*	Early Childhood Curriculum Design and Implementation I	3
___	EDEC	295*	Early Childhood Fieldwork/ Practicum I	3
___	SOCI	101A	Introduction to Sociology	3
___	WRIT	101W*	College Writing I	3
			Second Semester Total	**17**

Advisor:
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For general information, contact the Admisions office: (406) 756-3847.

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	EDEC	135*	Language and Literature for Young Children	2
___	EDEC	230*	Positive Child Guidance	3
___	EDEC	249	Infant/Toddler Development and Group Care	4
___	EDU	270	Instructional Technology	3
___	M	095*	Intermediate Algebra	4
___	PSYX	230A*	Developmental Psychology	3
			First Semester Total	**19**

Spring Semester

✔	Course	#	Title	Credits
___	EDEC	250*	Math and Science Curriculum for Early Childhood	2
___	EDEC	252*	Music and Movement for Young Children	2
___	EDEC	260*	Administration of Early Childhood Programs	3
___	EDEC	295*	Early Childhood Fieldwork/ Practicum II	3
___	____	____	Electives	3-5
			Second Semester Total	**13-15**
			Total Credits	**65-67**

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- All EDEC coursework is offered on a two-year rotation with the exception of EDEC 108, which is offered each fall.
- Students enrolled in this program may participate in a Service Learning opportunity, which could qualify them to be eligible to receive an education award. For more information, contact the AmeriCorps office at (406) 756-3908.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Admission Guidelines

- This program is open to all students. See college admissions requirements on page 7.

Opportunities After Graduation

- The demand for well-educated early childhood educators continues to increase. Program graduates are qualified to practice in a variety of early education and care settings, including early childhood education programs, child care centers, family home care settings, preschools and public school classrooms as primary grade para-educators. Continued education and experience provides opportunities to become teacher trainers, early childhood consultants, early education specialists and program administrators. The AAS degree in Early Childhood Education also articulates into UM-Western's BS program in Early Childhood Education.

Electrical Technology

Associate of Applied Science Degree

The Associate of Applied Science degree in Electrical Technology expands upon the certificate foundation and provides students the background necessary to enter the field of electrical wiring in residential, commercial, and industrial construction sites. The AAS degree provides additional course offerings in planning and estimating, commercial wiring, advanced code study, and motor controls. Graduates of this option will be prepared to meet the challenges of today's modern equipment and wiring systems and be eligible for advanced placement into a registered apprentice position. Upon completion of this program, students will:

- Analyze, configure, troubleshoot and assist in designing and measuring electrical and electronic circuits and systems;
- Learn new technologies and procedures, adapting this knowledge to effectively advance in the field and/or matriculate into the "plus two" section of a Bachelors of Science in Electrical Engineering Technology (BSEET) program;
- Employ computer-based tools to effectively complete technical tasks;
- Work effectively in a team environment;
- Communicate clearly and effectively in speaking and writing with peers, engineers, teams and customers using appropriate technologies including audio, visual and graphics;
- Employ motor and analytical skills to solve problems; and
- Use time management, project management and safety while contributing to an engineering project.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	ELCT	100	Introduction to Electricity	3
___	ELCT	110	Basic Electricity I	5
___	ELCT	133*	Basic Wiring	4
___	ELCT	137	Electrical Drafting	2
___	M	111*	Technical Mathematics	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	ECP	104	Workplace Safety	1
___	ELCT	102*	Electrical Fundamentals II	4
___	ELCT	111	Electric Meters and Motors	3
___	ELCT	139	Electric Code Study - Residential	3
___	ELCT	205	Electrical Design and Lighting	3
___	WRIT	122C*	Introduction to Business Writing	3
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	ELCT	103*	Electrical Code Study/Codeology	3
___	ELCT	204 *	Electrical Planning and Estimating	3
___	ELCT	210*	Advanced Current Theory	5
___	ELCT	241	Electric Motor Controls	3
___	ELCT	251	Introduction to Photovoltaic Systems	5
			First Semester Total	**19**

For general information, contact the Admissions office: (406) 756-3847.

Spring Semester

✔	Course	#	Title	Credits
___	COMX	115C	Introduction to Interpersonal Communication	3
___	ELCT	211*	AC Measurements	3
___	ELCT	233*	Commercial Wiring Lab	3
___	ELCT	236*	Conduit, Raceways, and Code Calculations Lab	3
___	ELCT	239	Grounding and Bonding Fundamentals	3
___	ELCT	247	Medium and High Voltage	3
			Second Semester Total	**18**
			Total Credits	**71**

*Indicates prerequisite and/or corequisite needed. Check course description.

Optional Course Offering

___	ELCT	252	Fundamentals of Grid Tied Photovoltaic Systems	5

Program Information

- Design, analyze, configure, troubleshoot and construct electrical and electronic circuits and systems.
- Gain the knowledge and skills necessary to effectively pursue licensure as an Electrician.

Admission Guidelines

- A minimum mathematics score of 30 for Algebra on the COMPASS/ESL test is required for entry into the program.
- A minimum score of 80 for the COMPASS/ESL English/Reading and Writing tests is required for entry into the program.
- Applicants not meeting the above requirements may be admitted on an extended track to complete remedial math/communications classes before enrolling in ELEC 102* or higher ELEC classes.

Certifications

- Recognized by the Montana Department of Labor as an apprentice compliant program of study.
- American Red Cross First Aid/CPR Certification

Additional Costs

- There are lab fees associated with some of the courses in this program. They are listed in the semester schedule.
- There are personal hand tool purchases totaling approximately $550 per year.

Apprenticeship Information

- Based upon successful completion of the FVCC 2-year Electrical Technology program, a maximum of 115 OJT training hours may be approved by the Registration Agency Program but provided the sponsor elects to grant the 3,115 OJT credit hours or a portion thereof to the apprentice based upon demonstration of skills.
- All provisions contained within the MOU apply only to Montana registered apprentices and registered Montana sponsors. The MOU does not provide for reciprocal agreement between other states.
- Any work hours or related instruction credit granted towards the registered apprenticeship program requirements is within the purview of the sponsor and approved by the program based upon documentation.
- For apprenticeship information, contact the Montana Department of Labor Apprentice Training Board at (406) 444-3556.

Electrical Technology

Certificate of Applied Science

This program is designed to give students the skills necessary for job attainment, as well as interpersonal skills, to prepare them for advanced placement into the electrician apprentice program. Licensure as a state recognized electrician requires 8,000 work experience hours and specific academic coursework. This program is compliant with the academic requirements and provides the opportunity to articulate work experience for lab and internship experience. Program materials include study of electrical theory, applied math, code study, and residential wiring. Lab experience will be provided for AutoCAD, test equipment, electric motors, magnetic motor starters, programmable controllers, electronic devices, and residential wiring. Upon completion of this program, students will:

- Analyze, configure, troubleshoot and assist in designing and measuring electrical and electronic circuits and systems;
- Learn new technologies and procedures, adapting this knowledge to effectively advance in the field and/or matriculate into the "plus two" section of a Bachelors of Science in Electrical Engineering Technology (BSEET) program;
- Work effectively in a team environment;
- Communicate clearly and effectively in speaking and writing with peers, engineers, teams and customers using appropriate technologies including audio, visual and graphics; and
- Employ motor and analytical skills to solve problems.

Fall Semester

✔	Course	#	Title	Credits
___	CAPP	106*	Short Courses: Computer Applications	1
___	ECP	104	Workplace Safety	1
___	ELCT	100	Introduction to Electricity	3
___	ELCT	110	Basic Electricity I	5
___	ELCT	133*	Basic Wiring	4
___	ELCT	137	Electrical Drafting	2
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	ELCT	102*	Electrical Fundamentals II	4
___	ELCT	103*	Electrical Code Study/Codeology	3
___	ELCT	111	Electric Meters and Motors	3
___	M	111*	Technical Mathematics	3
___	WRIT	122C*	Introduction to Business Writing	3
			Second Semester Total	**16**
			Total Credits	**32**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- Students must achieve 85% or above in all classes to count toward their apprenticeship training.

Admission Guidelines

- Applicants must have a minimum mathematics score of 30 for Algebra on the COMPASS/ESL test. They must also have a minimum score of 80 for the COMPASS/ESL English/Reading and Writing tests. Applicants not meeting the above requirements may be admitted on an extended track to complete developmental math/communications classes before enrolling in ELCT 102* or higher ELCT classes.

Additional Costs

- There are lab fees associated with some of the courses in this program. They are listed in the semester schedule.

Certification

- American Red Cross First Aid/CPR Certification

Apprenticeship Information

- For apprenticeship information, contact the Montana Department of Labor Apprentice Training Board at (406) 444-3556.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Advisor:
Pete Wade
OT 108
(406) 756-3968
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For general information, contact the Admissions office: (406) 756-3847.

Emergency Dispatcher
Certificate

The Emergency Dispatcher certificate program provides students with entry level knowledge of the demands of a career as an emergency dispatcher. The 911 dispatcher is the first link in the 911 system. Upon completion of this program, students will:

- Understand emergency dispatcher terminology and report writing;
- Discuss stress and crisis intervention strategies;
- Describe legal responsibilities, ethics, and criminal and civil law practices as they relate to emergency dispatch; and
- Utilize computer applications.

Fall Semester

✔	Course	#	Title	Credits
___	CAPP	106*	Short Courses: Computer Applications	1
___	COMX	115C	Introduction to Interpersonal Communication	
	or			
___	COMX	215	Negotiations/Conflict Resolution	3
___	PSD	100	Introduction to 911	2
___	PSD	110	Call Taking/Emergency Medical Dispatch	3
___	PSD	120	Public Safety Dispatching	3
___	PSD	195	Dispatch Field Experience	1
___	WRIT	122C*	Introduction to Business Writing	3
			Total Credits	**16**

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- Emergency dispatcher is a one-semester certificate program offered once a year. (possibility of twice a year if needed).
- The program offers both classroom and lab experience as well as field experience in the 911 center.

Admission Guidelines

- The Emergency Dispatcher program is open to all high school graduates or equivalent, who meet the standards for employment in the 911 field, including good physical condition and high moral standards.
- Reading and writing skills are important. Students who place below College Writing on the Compass test may need to take additional developmental courses in order to take WRIT 122C*.

Additional Costs

- There may be course fees associated with some courses in the program. Consult the semester schedule for additional information.

Opportunities After Graduation

- Students successfully completing this program have the skills and knowledge for successful employment as an emergency dispatcher in a 911 system.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Advisor:

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For general information, contact the Admissions office: (406) 756-3847

Emergency Management

Associate of Applied Science Degree

Emergency management leaders need experience in hazard mitigation and preparedness, along with a strong academic background in critical thinking, emergency management law and ethics, management and communication. Upon successful completion of this program, students will:

- Describe the elements of an integrated emergency management system;
- Compare the roles and responsibilities of key local, state, and federal personnel in dealing with localized emergency incident vs. disasters;
- Identify hazards and propose a strategy to resolve the problem;
- Write a mitigation plan;
- Design an emergency operations center considering the special needs of the occupants;
- Formulate and disseminate accurate news releases;
- Understand the geography and geopolitics of terrorism;
- Develop an action plan for recruiting, interviewing, training, supervising, and evaluating volunteers;
- Utilize the Montana Code Annotated to understand the specifics of Montana state law in relation to emergency management;
- Develop a mass fatality incident plan; and
- Construct an emergency action plan for their agency or community.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BMGT	235	Management	3
___	CAPP	131*	Basic MS Office	2
___	COMX	115C	Introduction to Interpersonal Communication	3
___	EM	100*	Principles of Emergency Management	3
___	EM	110*	Disaster Response	3
___	WRIT	101W*	College Writing I	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	EM	120*	Mitigation Planning	3
___	EM	130*	Emergency Operations Center (EOC) Management and Operations	3
___	EM	140*	Public Information Officer	3
___	M	108*	Business Mathematics	4
___	PHL	132	Introduction to Critical Thinking	3
			Second Semester Total	**16**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BGEN	110	Applied Business Leadership	3
___	BMGT	237	Human Relations in Business	3
___	EM	200*	Responding to Terrorism	3
___	EM	210*	Exercise Design	3
___	PSCI	210B	Introduction to American Government	3
___	WRIT	121C*	Introduction to Technical Writing	3
			First Semester Total	**18**

Spring Semester

✔	Course	#	Title	Credits
___	COMX	215	Negotiations/Conflict Resolution	3
___	EM	220*	Management of Volunteers	3
___	EM	230*	Emergency Management Law and Ethics	3
___	EM	240*	Mass Fatalities Incident Response	3
___	EM	250*	Emergency Management Capstone Project	4
			Second Semester Total	**16**
			Total Credits	**67**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- Students enrolled in this program may participate in a Service Learning opportunity, which could qualify them to be eligible to receive an education award. For more information, contact the AmeriCorps office at (406) 756-3908.

Additional Costs

- There are course fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- This fast growing field presents opportunities for individuals who are interested in employment in various capacities related to the field, including law enforcement, fire service, EMS, emergency communications operators, hospital personnel, business safety personnel, municipal government planners, security personnel, and risk managers.
- On the national level, the occupation is expected to grow faster than the average rate of all occupations.
- Graduates who are current practitioners in the public safety field will enhance their training and employability in the emergency field.

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For general information,
contact the Admissions office:
(406) 756-3847.

Entrepreneurship

Certificate of Applied Science

The following curriculum develops the basic skills necessary for success in the entrepreneur world. The classes provide a foundation for understanding Small Business Entrepreneurship and how the business process works. This leads to a Certificate of Small Business Entrepreneurship and represents the first year of a two-year AAS degree in Small Business Management. Upon completion of this program, students will:

- Be given the basic proficiencies needed to operate a successful small business;
- Understand and be able to explain a broad overview of the basics of Small Business Entrepreneurship;
- Identify the various services provided by the S.B.A;
- Be able to explain the various components of a business plan;
- Identify the pros and cons of various forms of business organization; and
- Discuss the start up of a new business and outline the steps necessary to get the business open and running.

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	101	Accounting Procedures I	4
___	BMGT	237	Human Relations in Business	3
___	BMKT	225	Marketing	3
___	M	108*	Business Mathematics	4
			First Semester Total	**14**

Spring Semester

✔	Course	#	Title	Credits
___	BGEN	280*	Business Planning	3
___	BMGT	210	Small Business Entrepreneurship	3
___	BMIS	211*	Introduction to Business Decision Support	4
___	ECNS	201B	Principles of Microeconomics	
	or			
___	ECNS	202GB	Principles of Macroeconomics	3
___	WRIT	122C*	Introduction to Business Writing	3
			Second Semester Total	**16**
			Total Credits	**30**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- Contact your advisor for program information.
- This program provides students with the basic proficiencies needed to operate a successful small business.
- The program will give the students a broad overview of the basics of Small Business Entrepreneurship.

General Academic Requirements

- Some courses require satisfactory scores on placement exams before being admitted. See the course descriptions for details.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Certifications

- There are no certifications associated with this certificate.

Admission Guidelines

- This program is open to all students. See college admissions requirements on page 7.

Opportunities After Graduation

- This certificate prepares students for entry level positions in small business as an employee or management trainee. Self employment as an owner/operator of a personal business is also an option for those completing this certificate.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainful-employment.html.

Advisor:
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chanchet@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Executive/Legal Administrative Assistant

Associate of Applied Science Degree

This program is currently on moratorium. No new students will be admitted into this degree program until further notice.

This program offers the student a good base of business knowledge and the skills necessary to succeed in top-level positions. Upon completion of this program, students will:

- Demonstrate knowledge of legal system;
- Possess appropriate skills in integrating office applications using word processing, spreadsheet, database, presentation and page layout software;
- Demonstrate appropriate interpersonal, human relations skills;
- Demonstrate speed and accuracy in keyboarding skills;
- Read, understand and prepare standard types of business communications;
- Demonstrate professionalism in work environment; and
- Demonstrate appropriate use of English.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	101	Accounting Procedures I	
	or			
___	ACTG	201	Principles of Financial Accounting	4
___	CAPP	108*	Short Courses: MS Windows	1
___	CAPP	154*	MS Word	3
___	M	108*	Business Mathematics	4
___	WRIT	101W*	College Writing I	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	150*	Accounting on Microcomputers	3
___	PSYX	100A	Introduction to Psychology	4
___	TASK	113*	Keyboarding and Document Processing	3
___	TASK	125*	Editing Skills for Information Processing	2
___	TASK	170*	Electronic Calculators	2
___	WRIT	122C*	Introduction to Business Writing	3
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BGEN	235	Business Law	4
___	COMX	115C	Introduction to Interpersonal Communication	
	or			
___	COMX	215	Negotiations/Conflict Resolution	3
___	TASK	151	Speedwriting	5
___	TASK	201*	Production Keyboarding	3
___	TASK	202*	Machine Transcription	2
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BMIS	211*	Introduction to Business Decision Support	4
___	OT	205*	Legal Machine Transcription	3
___	OT	220*	Legal Research	3
___	TASK	210*	Office Success Strategies	3
___	TASK	298*	Internship	3
			Second Semester Total	**16**
			Total Credits	**65**

Program Information

- All required courses within this degree program must be taken for a letter grade. Only electives may be taken on a Satisfactory/Unsatisfactory (S/U) basis.
- An internship is required for this program. Students must apply for internship placements for this program the prior semester. See page 25 for more information and application deadlines.

Certifications

- MOUS (Microsoft Office User Specialist) Certification for Word is recommended for this degree program. The certification examination is given at FVCC by appointment. See your advisor for details.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedules.

Opportunities After Graduation

- The expected growth in the population should create more jobs for legal administrative assistants. With more people and more businesses, there will be a need for more legal services. Major employers are law firms and federal, state and local government agencies.

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For general information, contact the Admissions office: (406) 756-3847.

*Indicates prerequisite and/or corequisite needed. Check course description.

If you are considering transfer to a four-year college, some of the courses will transfer as electives only. ***See your advisor.*** *If you are going to graduate in the current academic year,* ***you must see an advisor in the Business Division*** *prior to enrolling fall semester.*

Goldsmithing and Jewelry Arts

Associate of Applied Science Degree

The curriculum prepares the student for an entry-level position in the jewelry industry and/or for further study and testing in the field of jewelry manufacturing. This program prepares the student with a wide variety of skills including basic fabrication, casting, stone setting, repair and design within a CAD/CAM environment. Upon completion of this program, students will:

- Have a working knowledge of:
  - ❖ anticlastic and synclastic forging. Form jewelry on the hydraulic press and die making for the press;
  - ❖ various forms of casting;
  - ❖ a variety of surface treatments;
  - ❖ a variety of stone setting techniques; and
  - ❖ CAD/CAM jewelry design and production;
- Successfully design and fabricate jewelry;
- Perform basic jewelry repair;
- Assemble a professional quality portfolio. Write an artist statement, biographical statement and resume. Photograph student work;
- Have basic drawing skills; and
- Have basic math and communications skills.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	ARTJ	210F	Jewelry and Metalsmithing I	3
___	ARTJ	220*	Forging and Smithing I	3
___	ARTJ	231	3D Jewelry Design and Modeling I	4
___	ARTZ	105F	Visual Language-Drawing	3
___	M	111*	Technical Mathematics	3
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**19**

Spring Semester

✔	Course	#	Title	Credits
___	ARTJ	211F*	Jewelry and Metalsmithing II	3
___	ARTJ	232*	3D Jewelry Design and Modeling II	4
___	ARTJ	240*	Jewelry Design and Rendering I	3
___	ARTJ	250	Wax Modeling and Casting I	3
___	ARTJ	260*	Stone Setting I	3
___	GDSN	274*	Portfolio Presentation	1
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	ARTJ	212F*	Jewelry and Metalsmithing III	3
___	ARTJ	221*	Forging and Smithing II	3
___	ARTJ	233*	3D Jewelry Design and Modeling III	4
___	ARTJ	261*	Stone Setting II	3
___	ARTJ	270*	Surface Embellishments I	3
			First Semester Total	**16**

*Indicates prerequisite and/or corequisite needed. Check course description.

Spring Semester

✔	Course	#	Title	Credits
___	ARTJ	213*	Jewelry and Metalsmithing IV	3
___	ARTJ	234*	3D Jewelry Design and Modeling IV	4
___	ARTJ	251*	Wax Modeling and Casting II	3
___	ARTJ	271*	Surface Embellishments II	3
___	ARTJ	280*	Jewelry Repair I	3
			Second Semester Total	**16**
			Total Credits	**68**

Optional Course Offering

✔	Course	#	Title	Credits
___	ARTJ	298*	Internship	3

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- An internship is optional for this program. Students must apply for internship placements for this program the prior semester. See page 25 for more information and application deadlines.

General Academic Requirements

- All courses within this degree program must be taken for a letter grade.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- This program will prepare students for entry level positions in the jewelry industry and/or further study in the field of jewelry manufacturing.
- Graduates will be prepared to work in a wide range of entry level positions, from custom shops to large scale manufacturing.

Admission Guidelines

- This program is open to all students.

Advisor:

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AT 110
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For general information, contact the Admissions office: (406) 756-3847.

If you are considering transfer to a four-year college, some of the courses will transfer as electives only. ***See your advisor.***

Graphic Design

Associate of Applied Science Degree

Specific skills learned in this program include graphic design methodologies, such as the design process, output production, and presentation. Photography, design, and drawing are core competencies. The students will learn Adobe software: Photoshop, Illustrator, InDesign, and Dreamweaver. In addition, students will spend the second year learning 3D animation and modeling using Maya. Students will also have a solid foundation in creating marketing plans, writing contracts, and will have market awareness. Upon completion of this program, students will:

- Demonstrate skills, techniques, and manipulation of tools and equipment necessary for studio graphic design that meet industry standards;
- Interpret and incorporate formal elements of design into digital images;
- Know and understand the impact of graphic communications on society;
- Design and develop professional websites; and
- Create a portfolio reflecting knowledge, techniques, and creativity gained during the student's course of study.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	ARTZ	105F	Visual Language - Drawing	3
___	ARTZ	106F	Visual Language 2-D Foundations	3
___	GDSN	148	Digital Illustration I	3
___	GDSN	250	Graphic Design I	3
___	WRIT	101W*	College Writing I	
	or			
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	ARTZ	108F*	Visual Language 3-D Foundations	3
___	ECNS	201B	Principles of Microeconomics	
	or			
___	ECNS	202GB	Principles of Macroeconomics	3
___	GDSN	248*	Digital Illustration II	3
___	M	095*	Intermediate Algebra	4
___	PHOT	154F*	Exploring Digital Photography	3
			Second Semester Total	**16**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BMKT	225	Marketing	3
___	CMPA	275	Web Development Tools: Dreamweaver	4
___	GDSN	149*	Digital Imaging I	3
___	GDSN	200	Introduction to Desktop Publishing	3
___	GDSN	267*	3D Animation - Modeling I	4
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	CMPA	270*	Advanced Web Design with XHTML and CSS	3
___	GDSN	247*	Digital Portfolio Preparation	4
___	GDSN	249*	Digital Imaging II	3
___	GDSN	268*	3D Animation - Modeling II	4
___	ITS	298*	Internship/Cooperative Education	3
			Second Semester Total	**17**

Total Credits **65**

Program Information

- An internship is required for this program. Students must apply for internship placements for this program the prior semester. See page 25 for more information and application deadlines.

Admission Guidelines

- This program is open to students who demonstrate previous computer experience.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.
- Students may choose to purchase the software and a drawing tablet for personal use at home to complete assignments.

Opportunities After Graduation

- This program prepares students for a global market where they can start a freelance business offering services in illustration, graphic design, Web design, 3D animation, or in digital imaging.

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For general information, contact the Admissions office: (406) 756-3847.

*Indicates prerequisite and/or corequisite needed. Check course description.

Graphic Design

Certificate of Applied Science

Specific skills learned in this program include graphic design methodologies, such as the design process, output production and presentation. The certificate prepares students to gain competence with the industry standards for digital images. The students will learn the Adobe software: Photoshop, Illustrator, InDesign, and Dreamweaver. Color, resolution, input and output, production process, photography, and drawing are core competencies. Upon completion of the certificate, the student may find a job as a production artist, illustrator, graphic designer, or in digital imaging. Upon completion of this program, students will:

- Demonstrate skills, techniques, and manipulation of tools and equipment necessary for studio graphic design that meet industry standards;
- Interpret and incorporate formal elements of design into digital images;
- Know and understand the impact of graphic communications on society;
- Design and develop professional websites; and
- Compile a digital portfolio reflecting knowledge, techniques and creativity gained during the student's course of study.

Fall Semester

✔	Course	#	Title	Credits
___	ARTZ	105F	Visual Language-Drawing	3
___	CMPA	275	Web Development Tools: Dreamweaver	4
___	GDSN	148	Digital Illustration I	3
___	GSDN	149*	Digital Imaging I	3
___	GDSN	250	Graphic Design I	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	GDSN	200	Introduction to Desktop Publishing	3
___	GDSN	247*	Digital Portfolio Preparation	4
___	GDSN	248*	Digital Illustration II	3
___	GDSN	249*	Digital Imaging II	3
___	M	095*	Intermediate Algebra	4
			Second Semester Total	**17**
			Total Credits	**33**

*Indicates prerequisite and/or corequisite needed. Check course description.

Admission Guidelines

- Be proficient in the use of software and hardware that meets industry standards.
- This program is open to students who demonstrate previous computer experience.

Additional Costs

- There are lab fees associated with the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- This program prepares students for a global market where they can find work as a productions artist, illustrator, graphic designer, web designer, or in digital imaging.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

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For general information, contact the Admissions office: (406) 756-3847.

Health Care Office Management

Associate of Applied Science Degree

(Also offered at Lincoln County Campus)

The duties of the health care office manager can vary greatly depending on the type, size and structure of the medical practice. The health care office manager must be knowledgeable in all aspects of medical office operations including billing, coding, collections, appointment scheduling and medical records maintenance. A successful office manager is efficient, organized, resourceful and possesses strong verbal and written communication and interpersonal skills, as well as the ability to make good decisions. Upon completion of this program, students will:

- Understand medical terminology;
- Possess knowledge of the human anatomy;
- Use interpersonal skills necessary to connect with co-workers and customers;
- Understand all aspects of a medical office including coding, scheduling, billing and EHR; and
- Demonstrate leadership skills.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	AHMS	100*	Math Applications for Allied Health Professionals	3
___	AHMS	105	Health Care Delivery	3
___	AHMS	127*	Medical Document Formatting	2
___	AHMS	144	Medical Terminology	3
___	BIOH	104N	Basic Human Biology	3
___	BIOH	105L*	Basic Human Biology Laboratory	1
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	AH	117	Medical Setting Customer Care and Privacy	1
___	AH	230	Electronic Health Records	3
___	AHMS	108*	Health Data Content and Structure	3
___	AHMS	210*	Basic Medical Coding	3
___	AHMS	220*	Medical Office Procedures	4
___	BGEN	110	Applied Business Leadership	
	or			
___	COMX	215	Negotiations/Conflict Resolution	3
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	101	Accounting Procedures I	4
___	AHMS	175	Medical Law and Ethics	3
___	AHMS	208*	Health Care Statistics	3
___	BMIS	211*	Introduction to Business Decision Support	4
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**17**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Spring Semester

✔	Course	#	Title	Credits
___	AHMS	252*	Computerized Medical Billing	2
___	BMGT	235	Management	3
___	BMIS	270*	MIS Foundations for Business	3
___	CAPP	156*	MS Excel	3
___	CAPP	158*	MS Access	3
___	_____	____	Elective(s)	3
			Second Semester Total	**17**
			Total Credits	**66**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- Also recommended: Microsoft Office User Specialist (MOUS) Certification (Word, Excel).
- An internship is an option for this program. Students must apply for placements for this program the prior semester. See page 25 for more information and application deadlines.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.
- Some classes may only be offered online. All online courses are assessed a distance delivery fee.

Opportunities After Graduation

- The Montana Department of Labor and Industry projected that employment in the medical office professions would grow by 16.9% from 2008-2018. This is much higher than the 11% growth rate projected for all occupations. The aging of the population will continue to drive employment increases in all occupations related to health care.

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For general information, contact the Admissions office: (406) 756-3847.

Health Information Technology: Implementation and Maintenance Specialist

Online Certificate

This program is currently on moratorium. No new students will be admitted into this degree program until futher notice.

This certificate has been developed in response to an estimated need for 10,000 new Health Information Technology (HIT) professionals to assist in the transition of the nation's health information management from paper-based systems to electronic medical record applications. It is designed to target professionals who are already working in a health-related or technology field. Upon completion of this program, students will:

- Work with data flows across HIT systems;
- Migrate data to an electronic health record;
- Evaluate Electronic Health Record (EHR) systems to select the EHR most appropriate to an organization and clinical setting;
- Apply regulatory policies to ensure safety of data; and
- Design and implement a plan to install a health IT system.

Track 1: Information Technology
This certificate is designed for students who have already completed a degree in Health Information or related area or worked in a related field.

Track 1 Certificate: Information Technology Option

✔	Course	#	Title	Credits
___	AH	120*	Configuring Electronic Health Records	3
___	AH	140*	Installation and Maintenance of Health IT Systems	3
___	AHMS	108*	Health Data Content and Structure	3
___	AHMS	280*	Overview of Health Informatics Systems	4
___	CAPP	158*	MS Access	3
___	CS	140*	Introduction to Information and Computer Science	3
			Total Credits	**19**

Track 2: Health Care
This certificate is designed for students who have already completed a degree in Information Technology or a related field or worked in a related field.

Track 2 Certificate: Health Care Option

✔	Course	#	Title	Credits
___	AH	120*	Configuring Electronic Health Records	3
___	AH	140*	Installation and Maintenance of Health IT Systems	3
___	AH	260*	Practice and Information Management and Redesign	3
___	AHMS	108*	Health Data Content and Structure	3
___	AHMS	144	Medical Terminology	3
___	AHMS	280*	Overview of Health Informatics Systems	4
			Total Credits	**19**

*Indicates prerequisite and/or corequisite needed. Check course description.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Admission Guidelines

- All applicants must be admitted to FVCC and comply with the elements under either Track 1: Information Technology or Track 2: Health Care.

Track 1: Information Technology Option

- Recently completed (within the past three years) Associate Degree in Health Care Office Management, Medical Office Management, Health Information Management, Medical Assistant, or allied health related field.

OR

- Related field work experience with consent of program director. Provide proof of relevant work experience in the form of a resume and at least two professional, work-related references.

Track 2: Health Care Option

- Recently completed (within the past 3 years) Associate Degree in Computer Science, Network Technology, Information Technology, or related field.

OR

- Related field work experience with consent of program director. Provide proof of relevant work experience in the form of a resume and at least two professional, work-related references.

Opportunities After Graduation

- Employment of medical records and health information technicians is expected to increase by 20 percent, much faster than the average for all occupations through 2018. Employment growth will result from the increase in the number of medical tests, treatments, and procedures that will be performed. In addition, with the increasing use of electronic health records, more technicians will be needed to complete the new responsibilities associated with electronic data management.
- Job prospects should be very good. In addition to job growth, numerous openings will result from the need to replace medical record and health information technicians who retire or leave the occupation permanently. Technicians that demonstrate a strong understanding of technology and computer software will be in particularly high demand.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

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For general information, contact the Admissions office: (406) 756-3847.

Heating, Ventilation and Air Conditioning

Certificate of Applied Science

This program will prepare students for entry-level positions within the HVAC career field. The curriculum consists of a series of theory courses provided through distance learning and relational electrical classes that provide the "hands-on" experience of applying the theory. All courses are taught to the standards of performance required for the North American Technician Excellence (NATE) certification. Graduates of the HVAC short-term certificate possess the entry level skills required to:

- Start up and evaluate new systems for proper performance;
- Maintain existing heating, air conditioning, ventilation and/or refrigeration systems;
- Troubleshoot and repair systems that are not performing to standards; and
- Design systems for light commercial and residential application including choosing the correct equipment and the proper distribution of the conditioned air.

Fall Semester

✔	Course	#	Title	Credits
___	COMX	115C	Introduction to Interpersonal Communication	3
___	HVC	101	HVAC Fundamentals	2
___	HVC	130	HVAC Electrical	3
___	HVC	131	Electrical and Refrigeration Lab	1
___	HVC	140*	HVAC Systems I	3
___	M	111*	Technical Mathematics	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	ECP	104	Workplace Safety	1
___	ELCT	111	Electric Meters and Motors	3
___	HVC	120	Boiler Operator Certification	2
___	HVC	230*	HVAC Electrical II	3
___	HVC	240*	HVAC Systems II	3
___	HVC	250*	HVAC Refrigeration I	3
			Second Semester Total	**15**
			Total Credits	**30**

Optional Program Offerings

✔	Course	#	Title	Credits
___	HVC	198*	Internship: Basic HVAC	1
___	HVC	295*	HVAC Field Experience I	10
___	HVC	298*	Internship: Advanced HVAC	1

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- This program is sponsored by local Refrigeration Service Engineers Society (RSES) employers.
- An internship is optional for this program. Students must apply for internship placement for this program the prior semester. See page 25 for more information and application deadlines.

General Academic Requirements

- Students in the Heating, Ventilation and Air Conditioning program must earn a "C-" or better in all Heating, Ventilation and Air Conditioning (HVC) classes.

Certifications

- State Refrigeration license
- NATE Certified Curriculum
- RSES membership program
- Gas fitter
- ICE Competency
- American Red Cross First Aid/CPR Certification

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Admission Guidelines

- This program is open to all students.

Opportunities After Graduation

- Graduates may work as HVAC technicians, refrigeration specialists or facility maintenance technicians. Growth in the construction industry has led to increased demand for workers in this area. Experience may lead to management and self-employment opportunities.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Advisor:
Pete Wade
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(406) 756-3968
pwade@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Heavy Equipment Operator

Certificate of Applied Science

This program will prepare the student to enter the equipment operations career field as an entry level operator. The program contains instruction and "hands-on" operation experience on bulldozers, backhoes, track excavators, wheel loaders, Skidsteers, motor graders, rollers, tractors, water tankers, dump trucks, and equipment transports. Students will also gain familiarity in interpreting construction grade stakes, safety procedures, and equipment maintenance as they apply to Heavy Equipment Operation. Class "A" Commercial Driver's License (CDL) training and testing are an integral part of this program. Upon completion of this program, students will:

- Operate heavy equipment (dozer, grader, loader, excavator, backhoe, Skidsteer, roller, tractor) and drive commercial trucks over 26,000 lbs. to National Center for Construction Education Research (NCCER) and Department of Transportation (DOT) standards in a job site environment;
- Maintain and service heavy equipment;
- Read and interpret grade and survey markings and stakes; and
- Apply critical thinking skills to evaluate and solve problems.

First Semester

✔	Course	#	Title	Credits
___	ECP	104	Workplace Safety	1
___	EQOP	105	Introduction to Heavy Equipment Operator	10
___	WLDG	111*	Welding Theory I Practical	4
			First Semester Total	**15**

Second Semester

✔	Course	#	Title	Credits
___	EQOP	110*	Heavy Equipment Operator II	10
___	M	111*	Technical Mathematics	3
___	WRIT	122C*	Introduction to Business Writing	3
			Second Semester Total	**16**
			Total Credits	**31**

Optional Course Offerings:

✔	Course	#	Title	Credits
___	EQOP	215*	Heavy Equipment Operator Internship	10
___	WLD	121*	Welding Certification II	2
___	WLDG	122*	Welding Theory III Practical	4
___	WLDG	185*	Welding Qualification Test Preparation	2

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- An internship is optional for this program. Students must apply for internship placements for this program the prior semester. See page 25 for more information and application deadlines.
- This program is sponsored by the Montana Contractor Association and is NCCER accredited.
- The courses in this program are offered fall, spring, and summer semesters. Students may enter the program at the beginning of any semester.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Admission Guidelines

- Students must satisfactorily pass a physical and drug screening medical exam.

Certifications

- The National Center for Construction Education and Research
- Department of Transportation (DOT) Commercial Drivers License, Class "A"
- American Red Cross First Aid/CPR Certification

Opportunities After Graduation

- Today's construction industry offers various job opportunities. As the population grows, so does the demand for skilled construction, excavation workers and commercial truck drivers. From highway and road construction to residential housing, from industrial development to recreational facility and park maintenance, the chances of employment for someone skilled in heavy equipment operation are good.
- The employer can be a national construction firm or a local company, a private utility company or a city, county or State Department of Transportation. Whatever the case, one can expect stable employment with respectable wages.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Advisors:

Pete Wade
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Chris Moore
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cmoore@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Human Services

Associate of Applied Science Degree

The pioneers of human services training and education programs felt that the answer to the workforce shortage was not to train another group of specialized professionals but to develop an entirely new kind of worker, the generalist.

Generalists are trained in a wide variety of helping interventions so that they may provide direct services to individuals or groups with a diversity of needs. These generalists also work in many different service settings integrating and coordinating the efforts of specialized professionals. Although graduates may vary from program to program in response to local needs, human service generalists are trained in basic helping skills essential to the helping relationship. These skills include:

- Interviewing;
- Observing and recording pertinent information;
- Conducting groups;
- Implementing treatment plans;
- Consulting with other workers and agencies;
- Mobilizing and utilizing community resources;
- Problem solving; and
- Advocating for clients.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	COMX	115C	Introduction to Interpersonal Communication	3
___	HS	100A*	Introduction to Human Services/ Social Work	3
___	M	108*	Business Mathematics	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Specialty Course	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	BMIS	211*	Introduction to Business Decision Support	4
	or			
___	CAPP	131*	Basic MS Office	2
___	HS	279*	Legal, Ethical, and Professional Issues in Human Services	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	121C*	Introduction to Technical Writing	3
___	_____	____	Specialty Course	3
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	HS	210*	Case Management	2
___	HS	250*	Interviewing/Crisis Intervention	4
___	HS	294*	Placement Seminar I	1
___	HS	295*	Field Experience I	3
	or			
___	HS	294*	Placement Seminar II	1
___	HS	295*	Field Experience II	3
___	_____	____	Specialty Course	3
___	_____	____	Specialty Course	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	HS	294*	Placement Seminar I	1
___	HS	295*	Field Experience I	3
	or			
___	HS	294*	Placement Seminar II	1
___	HS	295*	Field Experience II	3
___	_____	____	Specialty Course	3
___	_____	____	Specialty Course	3
___	_____	____	Specialty Course	3
___	_____	____	Specialty Course	3
			Second Semester Total	**16**

Specialty Courses: Minimum of 24 credits from the following list:

✔	Course	#	Title	Credits
___	CAS	242*	Fundamentals of Substance Abuse and Addiction	3
___	CAS	250*	Assessment and Case Management Processes	2
___	HTH	205	Drug Issues for Education	3
___	PSYX	230A*	Developmental Psychology	3
___	PSYX	233*	Fundamentals of Psychology of Aging	3
___	PSYX	240A*	Fundamentals of Abnormal Psychology	3
___	PSYX	250NA*	Fundamentals of Biological Psychology	3
___	PSYX	260A*	Fundamentals of Social Psychology	3
___	PSYX	275*	Fundamentals of Behavior Modification	3
___	SOCI	101A	Introduction to Sociology	3
___	SOCI	201	Social Problems	3
___	SOCI	215*	Introduction to Sociology of the Family	3
___	SOCI	220GA	Race, Gender, and Class	3
___	SOCI	260	Introduction to Juvenile Delinquency	3
___	SOCI	271	Introduction to Family Violence	3

Total Credits **65**

*Indicates prerequisite and/or corequisite needed. Check course description.

[1]HS 294 Placement Seminar III and HS 295 Field Experience III may be taken instead of HS 294 Placement Seminar I or II and HS 295 Field Experience I or II.

Program Information

- A field experience is required for this program. Students must apply for placements for this program the prior semester. See page 25 for more information and application deadlines.

Admission Guidelines

- This program is open to all students. See college admissions guidelines on page 7.

Opportunities After Graduation

- Graduates will have opportunities in the broad spectrum of human services employment in mental institutions, welfare agencies, employment services, rehabilitation, aftercare, outreach, and various social service agencies both private and public.

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rhalvers@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Industrial Machine Technology Computer Numerical Control (CNC)

Certificate of Applied Science

The Industrial Machine Technology CNC program provides instruction in the theory, operation and programming of Computer Numerical Control (CNC) machine tools. This program teaches the skills necessary to pursue an entry level career as an Industrial Machine programmer/operator employing CNC technology. Upon completion of this program, students will:

- Read and understand the various symbols and features of a blueprint;
- Describe various machinery used in manufacturing industries;
- Recognize one's strengths and shortcomings in relation to workplace safety and collaborate with others in providing emergency care;
- Apply basic mathematical operations, principles, and concepts to technical mathematical situations and problems;
- Communicate effectively one-on-one;
- Use operating systems, word processing, spreadsheets, databases, and presentation software appropriate to the manufacturing workplace;
- Collaborate with others to apply appropriate problem solving techniques in a manufacturing setting;
- Use tools and equipment to form and machine various materials in a manufacturing laboratory environment;
- Understand precision measurement and quality control procedures in both a theoretical and practical sense;
- Apply appropriate problem-solving techniques in a manufacturing setting;
- Understand the fundamental concepts and processes associated with various software and how the software interfaces with CNC machines; and
- Set up CNC machines to perform various machining operations.

First Semester

✔	Course	#	Title	Credits
___	M	111*	Technical Mathematics	3
___	MCH	120	Blueprint Reading and Interpretation for Machining	2
___	MCH	121	Mill and Lathe Systems	4
___	MCH	129	Machine Quality Control and Precision Measurements	3
___	MFGT	115	Machine Shop Fundamentals	2
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**17**

Second Semester

✔	Course	#	Title	Credits
___	DDSN	135	Solidworks	2
___	ECP	104	Workplace Safety	1
___	MCH	124	Advanced CNC Programming in MASTERCAM	3
___	MCH	125*	HAAS CNC TM1 Lathe Operations	3
___	MCH	126*	Advanced Mill and Lathe Systems	3
___	MCH	127*	HAAS CNC TM1 Vertical Mill Operations	3
			Second Semester Total	**15**
			Total Credits	**32**

Admission Guidelines

- The applicant must have a minimum mathematics score of 30 for Algebra on the COMPASS/ESL test. They must also have a minimum score of 80 for the COMPASS/ESL English/Reading and Writing tests. Applicants not meeting the above requirements may be admitted on an extended track to complete developmental math/communications classes before enrolling in MCH 121 or higher MCH classes.

Certification

- American Red Cross First Aid/CPR Certification

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

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Advisor:
Pete Wade
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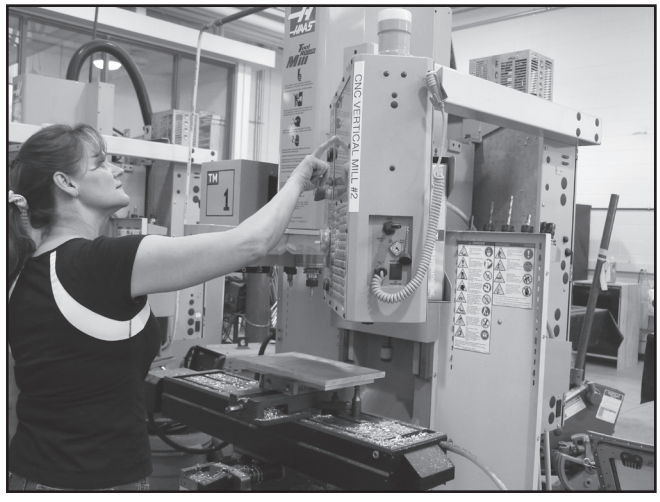
For general information, contact the Admissions office: (406) 756-3847.



Information Technology

Associate of Applied Science Degree

The Information Technology program deals with the application of computers and networks to business problems. The program provides in-depth study of the use of computer applications, systems design and analysis, and the application of the computer as a functional tool within an organization. Upon completion of this program, students will:

- Learn to configure, use and troubleshoot desktop and network operating systems;
- Understand and apply network theory and security principles;
- Gain knowledge on computer and network hardware and apply troubleshooting techniques;
- Understand virtualization and cloud utilization; and
- Develop a sense of professionalism necessary for working successfully in Information Technology.

General Education and Support Courses

✔	Course	#	Title	Credits
___	ACTG	201	Principles of Financial Accounting	4
___	BMGT	237	Human Relations in Business	3
___	CAPP	156*	MS Excel	3
___	CMPA	275	Web Development Tools: Dreamweaver	4
___	COMX	111C	Introduction to Public Speaking	3
___	ECNS	201B	Principles of Microeconomics	
	or			
___	ECNS	202GB	Principles of Macroeconomics	3
___	M	095*	Intermediate Algebra	4
___	WRIT	122C*	Introduction to Business Writing	3
				27

Program Courses

Fall Semester

✔	Course	#	Title	Credits
___	CSCI	100	Intro to Programming Offered 2013/15	3
___	ITS	164*	Networking Fundamentals Offered 2013/15	3
___	ITS	210*	Network Operating System-Desktop Offered 2014/16	3
___	ITS	212*	Network Operating System- Server Administration Offered 2013/15	3
___	ITS	218*	Network Security Offered 2014/16	3
___	ITS	280*	Computer Repair and Maintenance Offered 2014/16	3
			Fall Semester Total	**18**

Spring Semester

✔	Course	#	Title	Credits
___	CSCI	240*	Databases and SQL Offered 2015/17	3
___	ITS	216*	Network Operating System- Directory Services Offered 2014/16	2
___	ITS	221*	Project Management	3
___	ITS	224*	Introduction to Linux Offered 2014/2015	3
___	ITS	235*	IT Design Lab Offered As Needed	2
___	ITS	258*	Routing and Switching Offered 2014/16	4
___	ITS	298*	Internship/Cooperative Education	3
			Spring Semester Total	**20**
			Total Credits	**65**

Students must adhere to all prerequisites.
Students must consult the program advisor for course sequencing.

Program Information

- Students develop skills in computer hardware and software, cloud implementation, network management and desktop and network operating systems.
- All required courses within this degree program must be taken for a letter grade. Only electives may be taken on a Satisfactory/Unsatisfactory (S/U) basis.
- An internship is required for this program. Students must apply for internship placements for this program the prior semester. See page 25 for more information and application deadlines.

Admission Guidelines

- Students are expected to have fundamental knowledge of the computer. If not, students must take CAPP 131*.
- Students should be aware that this program of study requires extensive mathematical application and related analytical thinking.

Certifications

- After completion of the program, and with additional study, students will have the knowledge to sit for the following certification exams:
  - A+ Certification
  - Network + Certification
  - CCNA (Cisco Certified Network Associate)
  - MOS (Microsoft Office Specialist) certification in Excel and Access

Additional Costs

- There are lab fees associated with most of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- In the ever growing technology industry, graduates will have opportunities for employment as computer support specialists who provide end user support, perform troubleshooting, maintain Local Area Network (LAN) systems. Graduates may work with larger employers in IT Departments, largely in the service, manufacturing or wholesale trade industries, or at educational institutions.

*Indicates prerequisite and/or corequisite needed.
Check course description.

Advisor:
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For general information, contact the Admissions office: (406) 756-3847.

Integrated Agriculture and Food Systems

Associate of Applied Science Degree

The Integrated Agriculture and Food Systems program will prepare students to develop and manage their own farm business, or to pursue careers in agricultural and horticultural science, sales, or production. While enrolled in the program, individuals will learn the fundamentals of crop, soil, and livestock management, along with the business skills necessary to operate a farm enterprise. The program focuses on the integration of crop and livestock production principles to create sustainable farming and food systems. Through laboratory courses, field trips, and internships on the FVCC campus farm and in the community, the Integrated Agriculture and Food Systems program provides students with a hands-on, multidisciplinary experience in agriculture and food systems. Upon completion of this program, students will:

- Describe the components and complexities of our modern food system;
- Demonstrate knowledge of crop and livestock production methods;
- Identify, diagnose and manage pests and diseases of crop plants and livestock;
- Consider the whole-farm implications of their management decisions;
- Safely and effectively operate farm machinery and equipment;
- Describe various marketing opportunities in small and large-scale agriculture; and
- Identify the necessary steps to start and operate a new business.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	ANSC	100	Introduction to Animal Science	3
___	BIOB	110N	Plant Science	3
	and			
___	BIOB	111L*	Plant Science Lab	1
___	COMX	115C	Introduction to Interpersonal Communication	3
___	SFBS	146	Introduction to Sustainable Food and Bioenergy Systems	3
___	WRIT	101W*	College Writing I	
	or			
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	ENSC	245NL	Soils	4
___	IAFS	110*	Principles of Crop Science	3
___	IAFS	202	Organic Crop Production: Spring	3
___	IAFS	230	Integrated Pest Management	5
			Second Semester Total	**15**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Summer Semester

✔	Course	#	Title	Credits
___	IAFS	246	Agriculture in Montana Field Course	2
___	IAFS	298	Internship: Campus Farm	3-6
			Summer Semester Total	**5-8**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	AGMT	200	Agricultural Marketing	3
___	ANSC	222*	Livestock in Sustainable Systems	3
___	BMGT	210	Small Business Entrepreneurship	3
___	IAFS	200*	Soil Nutrient Management	3
___	IAFS	202	Organic Crop Production: Fall	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	122	Accounting and Business Decisions	2
___	BGEN	280*	Business Planning	3
___	IAFS	238	Farm Maintenance and Equipment	4
___	IAFS	298*	Internship: Agricultural Enterprise	3-4
___	IAFS	299*	Capstone: Integrated Agriculture and Food Systems	3
			Second Semester Total	**15-16**
			Total Credits	**66-70**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- An internship is required for this program. Students must apply for internship placements for this program the prior semester. See page 25 for more information and application deadlines.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities after Graduation

- Graduates can expect to find employment in a variety of agricultural jobs, including as plant/soil/animal science technicians, in agricultural sales/marketing, or as farm managers. Small-scale farming is one of the fastest growing sectors in agriculture, which presents opportunities for graduates to be self-employed farmers.

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Marketing/Sales Specialist

Certificate of Applied Science

This program is designed for students currently employed in marketing or sales and wishing to develop additional skills or for an employer attempting to develop an employee currently within the organization. The program will cover the essentials of the core classes in the study of sales and marketing. This program could be extended into an AAS degree in business administration. Upon completion of this program, students will:

- Explain the importance of customer service to a business;
- Describe the marketing process and explain the variables that make up the marketing mix;
- Explain the variables that impact consumer behavior in the market place; and
- Develop effective customer relations and use correspondence and communications technology in appropriate ways to improve customer service and relations.

Fall Semester

✔	Course	#	Title	Credits
___	BMGT	237	Human Relations in Business	3
___	BMKT	225	Marketing	3
___	M	108*	Business Mathematics	4
___	TASK	150	Customer Service Strategies	3
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	BMGT	235	Management	3
___	COMX	115C	Introduction to Interpersonal Communication	
	or			
___	COMX	215	Negotiations/Conflict Resolution	3
___	ECNS	201B	Principles of Microeconomics	
	or			
___	ECNS	202GB	Principles of Macroeconomics	3
___	_____	____	Electives in ACTG, BMGT, CAPP or CMPA	3
			Second Semester Total	**12**

Take two of the following:

✔	Course	#	Title	Credits
___	CAPP	114*	Short Courses: MS Word	1
___	CAPP	116*	Short Courses: MS Excel	1
___	CAPP	118*	Short Courses: MS Access	1
				2

Total Credits **30**

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- Contact your advisor for program information.
- This program provides students with the basic proficiencies needed in the field of marketing/sales.
- This program will give the students a broad overview of the basics of salesmanship and Marketing.

General Academic Requirements

- Some courses require satisfactory scores on placement exams before being admitted. See course descriptions for details.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Certifications

- There are no certifications associated with this certificate.

Admission Guidelines

- This program is open to all students. See college admissions requirements on page 7.

Opportunities After Graduation

- This certificate prepares students for entry level positions in business as a salesperson marketing/sales trainee. Any occupation requiring sales and/or marketing, self employment in the sales marketing field is an option, and this certificate would also benefit the owner/operator of a personal business.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Advisor:
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chanchet@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Medical Assistant

Associate of Applied Science Degree

(Also offered at Lincoln County Campus)

Medical Assistants are multi-skilled practitioners who perform a wide range of roles in physicians' offices and other health care settings. They are proficient in a multitude of administrative, clerical and clinical tasks and are widely viewed by doctors as vital partners in the medical office. Medical Assistant graduates will use modern technology to:

- Perform clerical functions;
- Perform bookkeeping functions;
- Process insurance claims;
- Perform fundamental clinical procedures such as handwashing, sterilization and Universal Precautions;
- Perform specimen collection;
- Perform routine diagnostic testing;
- Provide routine patient care as directed by a physician;
- Communicate professionally and effectively;
- Perform within legal and ethical boundaries;
- Provide patient instruction as needed;
- Perform routine office operational functions as needed; and
- Demonstrate professionalism in a health care setting.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	AHMS	144	Medical Terminology	3
___	BIOH	104N	Basic Human Biology	3
___	BIOH	105L*	Basic Human Biology Laboratory	1
___	M	108*	Business Mathematics	4
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**14**

Spring Semester

✔	Course	#	Title	Credits
___	AHMA	201*	Medical Assisting Clinical Procedures I**	4
___	AHMA	202	Medical Assisting Clinical Procedures I Lab	1
___	AHMA	205*	Medical Assisting Clinical Approaches I	1
___	AHMS	175	Medical Law and Ethics	3
___	AHMS	210*	Basic Medical Coding	3
___	CHMY	160	Pharmacology	3
			Second Semester Total	**15**

Summer Semester

✔	Course	#	Title	Credits
___	CAPP	154*	MS Word	3
___	COMX	115C	Introduction to Interpersonal Communication	3
___	ECP	104	Workplace Safety	1
___	PSYX	100A	Introduction to Psychology	4
			Third Semester Total	**11**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	AHMA	203*	Medical Assisting Clinical Procedures II**	3
___	AHMA	204	Medical Assisting Clinical Procedures II Lab	1
___	AHMA	206*	Medical Assisting Clinical Approaches II	1
___	AHMA	220*	Phlebotomy	3
___	AHMS	220*	Medical Office Procedures	4
___	BIOL	170*	Disease Processes/Pharmacology	4
___	TASK	125*	Editing Skills for Information Processing	2
			First Semester Total	**18**

Spring Semester

✔	Course	#	Title	Credits
___	AHMA	298*	Medical Assisting Externship**	4
___	AHMA	299*	Medical Assisting Portfolio Development	1
___	AHMS	252*	Computerized Medical Billing	2
			Second Semester Total	**7**

Total Credits **65**

Strongly recommended courses:

✔	Course	#	Title	Credits
___	ACTG	101	Accounting Procedures I	4
___	AH	155	Essentials of Electronic Health Records	1
___	AH	230	Electronic Health Records	3
___	BIOM	250NL*	Microbiology for Health Sciences	4
___	CAPP	116*	Short Courses: MS Excel	1
___	CAPP	131	Basic MS Office	2
___	ECP	100	First Aid and CPR	2

*Indicates prerequisite and/or corequisite needed. Check course description.

**AHMA 201*, AHMA 203*, and AHMA 298* must have program director's signature for admission and must be taken consecutively; students must earn a "B" or better in all three courses. AHMA 298* is an externship which involves 180 hours of unpaid work experience in various medical offices in the community. Externship responsibilities include working during spring break. Students are expected to have their own health insurance before starting the externship.

Program Information

- All requirements for the Medical Assistant program are stated in the Medical Assistant Student Handbook.
- Students considering this degree should familiarize themselves with the requirements.
- Copies of the handbook are available from the program director in BSS 108.
- Students enrolled in this program may participate in a Service Learning opportunity, which could qualify them to be eligible to receive an education award. For more information, contact the AmeriCorps office at (406) 756-3908.

(continued on next page)

General Academic Requirements

- Students in the Medical Assistant program must earn a "C-" or better in ALL classes, except AHMA 201*, AHMA 203* and AHMA 298* which require a "B" or above.

Admission Guidelines

- Students are admitted on a first-come, first-served basis. The Medical Assistant program has a maximum of 12 students in each graduating class. This may result in students taking more than two years to complete the program.
- The Medical Assistant program demands high academic and personal standards. Any student who exhibits unsuitable performance and/or behavior may be denied the right to complete the program.

Background Information Disclosure (BID) Form

- A criminal background check is required for all Medical Assistant students. Any changes in a conviction record and/or pending criminal charges which occur between the initial completion of the Background Information Disclosure Form and program completion must be provided in writing to the Program Director within five (5) working days from the date of notification. Failure to provide such information within the aforementioned time frame can result in immediate dismissal from the program.

American Disabilities Act (ADA) Statement

- Students with recognized disabilities or other physical limitations that may affect their performance as a medical assistant, are responsible for identifying themselves as soon as possible to the Advocate for Students with Disabilities and to the program director. Course standards will not be lowered, but various accommodations are available. A minimum of six (6) weeks will be required to develop and provide appropriate accommodations, so students who qualify should contact Disability Services as soon as possible. It is the college's goal to assist students in their individual educational plans.

Program Accreditation

- The FVCC Medical Assistant program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (AAMAE).

  Commission on Accreditation of Allied Health Education Programs
  1361 Park Avenue
  Clearwater, FL 33756
  (727) 210-2350

Certifications

- Graduates of this program qualify to take the National Certified Medical Assistant Exam.
- American Red Cross First Aid/CPR Certification

Additional Costs

- Approximately $250-300 for uniforms, supplies, and immunizations which are required for the program. There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.
- Approximately $95 for CMA Exam.
- Some classes may only be offered online. All online courses are assessed a distance delivery fee.

Opportunities After Graduation

- America's Career Info Net has listed Medical Assistant positions 12th in the top 25 occupations showing growth in Montana.
- On a national level, medical assistant is the 10th fastest growing occupation with a 57% growth rate.
- The continued aging of the population and growth of medical facilities in the Flathead Valley will provide further demand for Medical Assistants.

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Medical Coding

Associate of Applied Science Degree

Health information coding is the transformation of verbal descriptions of diseases, injuries, and procedures into alphanumeric designations. Currently, reimbursement of hospital and physical claims for patients depends entirely on the assignment of codes. Coding is one of the fastest growing professions in the United States. Upon completion of this program, students will:

- Demonstrate the professional work habits expected in the medical coding profession including confidentiality and ethical practices;
- Apply medical terminology, anatomy and physiology, and disease process knowledge to seek the appropriate code;
- Complete insurance forms (HCFA) using ICD-9-CM, CPT and HCPCS codes;
- Demonstrate the ability to communicate orally and in writing;
- Abstract code data from medical records; and
- Demonstrate effective leadership skills.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	AHMS	105	Health Care Delivery	3
___	AHMS	144	Medical Terminology	3
___	AHMS	175	Medical Law and Ethics	3
___	BIOH	104N	Basic Human Biology	3
___	BIOH	105L*	Basic Human Biology Laboratory	1
___	CAPP	131*	Basic MS Office	2
___	___	___	Elective	1
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	AH	230	Electronic Health Records	3
___	AHMS	210*	Basic Medical Coding	3
___	AHMS	252*	Computerized Medical Billing	2
___	BIOL	170*	Disease Processes/Pharmacology	4
___	TASK	145	Records Management	3
			Second Semester Total	**15**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	AHMS	212*	CPT Coding	3
___	AHMS	214*	ICD-9 Coding	3
___	AHMS	220*	Medical Office Procedures	4
___	BMIS	211*	Introduction to Business Decision Support	4
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**17**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Spring Semester

✔	Course	#	Title	Credits
___	AHMS	100*	Math Applications for Allied Health Professionals	3
___	AHMS	250*	Advanced Medical Coding	4
___	BGEN	110	Applied Business Leadership	3
___	CAPP	156*	MS Excel	3
___	___	___	Electives	3
			Second Semester Total	**16**
			Total Credits	**64**

Optional Course Offerings

✔	Course	#	Title	Credits
___	AHMS	198*	Internship	3
___	AHMS	298*	Internship: Coding On-the-Job-Training	10

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- An internship is an option for this program. Students must apply for placements for this program the prior semester. See page 25 for more information and application deadlines.
- Coding is one of the fastest growing professions in the United States.

General Academic Requirements

- Students in the Medical Coding program must receive a "C-" or better in AHMS 210* and AHMS 212* to receive this certificate.
- All courses within the certificate must be taken for a letter grade. No courses may be taken on a Satisfactory/Unsatisfactory (S/U) basis.

Certifications

- Students who complete this coding certificate program should be ready to sit for the Certified Coding Associate (CCA) examination.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.
- Some classes may only be offered online. All online courses are assessed a distance delivery fee.

Opportunities After Graduation

- Rapid growth in the health services industry as a whole and the expansion of the medical community in the area should fuel growth within this occupation. Positions for Health Information Technicians in Montana are projected to experience a 18% growth increase from 2008-2018.

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Medical Transcription

Certificate of Applied Science (Online)

Medical Transcriptionists' work is focused on translating a doctor's report to an electronic record of a person's medical history, diagnosis and treatment. Upon completion of this program, students will:

- Demonstrate proper use of the English and medical languages;
- Practice professionalism;
- Use related references and resources for research and practice;
- Use knowledge of standards and regulations in health care documentation;
- Transcribe dictation from tapes, CDs and voice recognition into permanent medical records;
- Operate appropriate software and transcription equipment; and
- Use knowledge of structure, function and terminology related to the human body for communication in health care systems.

Fall Semester (Must take all classes together)

✔	Course	#	Title	Credits
___	AHMS	101	Keyboard Formatting for Medical Reports	1
___	AHMS	104	Medical Specialties	3
___	AHMS	110	Study of the Human Body and Disease Process I	3
___	AHMS	115*	Study of the Human Body and Disease Process II	3
___	AHMS	120	Grammar Essentials for Medical Transcription	2
___	AHMS	133	Language of Medical Transcription	2
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**17**

Spring Semester (Must take all classes together)

✔	Course	#	Title	Credits
___	AHMS	125	Editing and Proofreading for MT	2
___	AHMS	130	Physical Exam, Lab Data, Pharmacology	2
___	AHMS	135	Voice Recognition for Medical Support	1
___	AHMS	140	MT Technology/Shortcuts/ Employment	1
___	AHMS	202	Beginning Medical Transcription	3
___	AHMS	204*	Intermediate Medical Transcription	3
___	AHMS	206*	Advanced Medical Transcription	3
___	M	108*	Business Mathematics	4
			Second Semester Total	**19**
			Total Credits	**36**

Optional Course Offering:

✔	Course	#	Title	Credits
___	AHMS	298*	Internship: Medical Transcription	3

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- An internship is an option for this program. Students must apply for placements for this program the prior semester. See page 25 for more information and application deadlines.

College Preparation

- The decision to become a medical transcriptionist is important. Learning the medical language is like learning a foreign language. It takes diligence and motivation. Accuracy and speed are essential which means the people that are best suited for this job are well-coordinated, disciplined and have an exceptional ear. In many cases, medical transcriptionists are paid by the line, so it is a field where productivity drives compensation. Expect to earn between $30,000 and $40,000 annually once you are well-trained.

Admission Guidelines

- Students must be admitted to FVCC.
- Students must take the COMPASS placement test for placement into Business Mathematics and Introduction to Business Writing.
- **Students must take all scheduled classes for the semester. They are not able to take one class at a time.**

Certification

- Students can sit for the Certified Medical Transcriptionist Exam after two years' experience in the field.

Additional Costs

- A lab fee of $300 is assessed for books, foot pedal, medical dictionary and reference materials. The Business Mathematics and Introduction to Business Writing books are not included in this fee. They must be purchased separately.
- Students will need a computer, high speed Internet and a secure work location.

Opportunities After Graduation

- As the health care industry moves toward electronic health records as the standard allowing easier storage and accessibility of an individual's history by physicians anywhere there is an increased demand for medical transcriptionists.
- Rapid growth in the health services industry as a whole and the expansion of the medical community in the area should fuel growth within this occupation.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainful-employment.html.

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For general information, contact the Admissions office: (406) 756-3847.

Metal Arts Fabrication

Certificate

The Metal Arts Fabrication curriculum is designed to provide students experience in designing student projects, Mig welding, forging, fabrication and assembly, ShopBot, PlasmaCam, and finishing of projects. Upon completion of this program, students will:

- Demonstrate safety practices with shop tools and equipment;
- Be able to transfer their photo or drawing into a CNC program for a cut pattern;
- Be able to Mig weld thin to medium thickness metal;
- Demonstrate knowledge of metallurgy and metal characteristics such as hardening, annealing, and tempering;
- Be able to do basic electricity, such as adding lights to their projects; and
- Demonstrate knowledge of different finishing techniques for metal.

Fall Semester

✔	Course	#	Title	Credits
___	ARTJ	231	3D Jewelry Design and Modeling I	4
	or			
___	DDSN	114*	Introduction to CAD	3
___	ARTZ	106F	Visual Language 2-D Foundations	3
___	PHOT	154F*	Exploring Digital Photography	3
___	WLDG	113	Mig Welding	2
___	WLDG	145	Fabrication Basics I	3
			First Semester Total	**14-15**

Spring Semester

✔	Course	#	Title	Credits
___	ARTZ	252*	Sculpture Studio: CNC Fabrication	3
___	ARTZ	252*	Sculpture Studio: Metal Forging	3
___	CSTN	125	Basic Cabinetry and Furniture Making	3
___	ELCT	133*	Basic Wiring	4
___	GDSN	274*	Portfolio Presentation	1
			Second Semester Total	**14**
			Total Credits	**28-29**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Admission Guidelines

- This program is open to all students. See college admissions guidelines.

Opportunities after Graduation

- Career opportunities offer a wide range of possibilities as a welding technician. Graduates will be prepared to work in entry level positions, from custom shops to large scale manufacturing.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule. Project material costs will be the student's responsibility.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

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For general information, contact the Admissions office: (406) 756-3847.

Natural Resources Conservation and Management

Associate of Applied Science Degree

The Natural Resources Conservation and Management program prepares students to work as technicians collecting and interpreting environmental information through techniques developed and refined in the traditional fields of forestry, range, water, wildlife and recreation. Students will apply this knowledge to the emerging fields of restorative and sustainable land management. Upon completion of this program, students will:

- Understand the complex biological, physical and human interactions as they relate to natural resources and land management;
- Demonstrate strong math and computer skills;
- Use various measuring instruments and accurately record data;
- Summarize, analyze and present results from collected data to supervisors and interested parties;
- Identify many trees, shrubs, forbs and grasses occuring in Montana;
- Use compasses, GPS receivers and maps to navigate within the public land survey system and locate ownerships and establish sample points;
- Use GPS and GIS techniques to analyze and present data within the context of land use and management;
- Identify many insect, disease and fire hazard situations and their relationships to ecology and sustainability; and
- Understand various federal, state and local laws, which govern people's use and management of land.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	FORS	153*	Forest Resource Calculations	3
___	NRSM	101	Natural Resource Conservation	3
___	NRSM	161*	Natural Resource Measurements I	5
___	SRVY	135	Field Surveying/Global Positioning System Introduction	5
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	ENSC	245NL	Soils	4
___	ENSC	272	Water Resources	4
___	FORS	152	Sustainable Silviculture	4
___	WRIT	101W*	College Writing I	3
			Second Semester Total	**15**

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Second Year

Fall Semester

✔	Course	#	Title	Credits
___	COMX	115C	Introduction to Interpersonal Communication	3
___	ENST	285	Environmental Policy and Impact Analysis	3
___	FORS	272*	Inventorying for Adaptive Management and Restoration	4
___	PTRM	201	Recreation Management	2
___	SRVY	233	Introduction to GIS for Natural Resource Assessment	4
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	ECNS	132	Economics and the Environment	3
___	FORS	230*	Forest Fire Management	3
___	FORS	232*	Forest Insects and Diseases	3
___	FORS	251*	Photogrammetry and Remote Sensing	3
___	SRVY	245*	GPS Mapping	2
___	WILD	270N	Wildlife Habitat and Conservation	3
			Second Semester Total	**17**

Total Credits **64**

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- This program is an ideal vehicle from which to launch a pursuit of baccalaureate level studies in the traditional areas of forestry, range, water, wildlife and recreation, but also urban forestry, land restoration and land rehabilitation.

College Preparation

- This program makes extensive use of basic mathematics, and it is essential that students develop a strong math background to insure successful completion of the program.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- Many employment opportunities are with federal, state and county governmental agencies. Private industry, extractive and renewable, employs technicians. Consulting firms, which contract with government and private entities, also hire technicians. Many employers prefer applicants who have a good overall knowledge of collecting and interpreting data about natural resources and have an associate's degree in Natural Resources Conservation and Management.

Nondestructive Testing

Certificate

The Nondestructive Testing program is designed to provide students experience in nondestructive test methods, visual inspection, liquid penetrant, magnetic particle, eddy current, ultrasonic and radiographic testing. Upon completion of this program, students will:

- Demonstrate safe practices for nondestructive testing;
- Be able to summarize the rules and regulations of radiation safety and characterists of x-ray and gamma radiation;
- Be able to illustrate electromagnetic principles and be able to use the equipment;
- Demonstrate knowledge of theory and be able to apply ultrasonic techniques;
- Be able to summarize magnetic particle testing formulas, methods, applications, limitations, material sensitivity, and equipment calibration;
- Be able to summarize liquid penetrant fomulas, methods, applications and limitations; and
- Demonstrate knowledge of documents governing nondestructive testing and qualification.

Fall Semester

✔	Course	#	Title	Credits
___	M	111*	Technical Mathematics	3
___	NDTE	110*	Introduction to Nondestructive Testing	3
___	NDTE	111*	Liquid Penetrant and Magnetic Particle Testing	3
___	NDTE	115*	Eddy Current Testing	3
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	CAPP	106*	Short Courses: Computer Applications	1
___	NDTE	112*	Ultrasonic Testing	5
___	NDTE	120	Radiographic Testing/Film Interpretation	5
___	NDTE	125*	AWS D1.1 Code Book	2
			Second Semester Total	**13**
			Total Credits	**28**

*Indicates prerequisite and/or corequisite needed. Check course description.

Admission Guidelines

- Visual acuity should be correctable to 20-20 with capability of differentiating contrast among colors and shades.
- Students need to have one year of welding experience or have completed WLDG 111* before enrolling in NDTE 125*.

Certifications

- Qualified to test for the level II ASNT exam.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- Career opportunities offer a wide range of possibilities as an inspector in the fabrication and manufacturing industries, steel construction, mining, energy, petroleum, aviation, bridge construction, and other production areas.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

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For general information, contact the Admissions office: (406) 756-3847.

Paramedicine

Associate of Applied Science Degree

Paramedicine is a career focusing on pre-hospital emergency medical care. A degree in this area will improve knowledge as well as marketability in a highly competitive field. Upon completion of this program, students will:

- Be eligible to sit for the NREMT written and practical examinations at the paramedic level.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	AHMS	100*	Math Applications for Allied Health Professionals	3
___	AHMS	144	Medical Terminology	3
___	BIOH	104N	Basic Human Biology	3
___	BIOH	105L*	Basic Human Biology Laboratory	1
___	COMX	115C	Introduction to Interpersonal Communication	
	or			
___	COMX	215	Negotiations/Conflict Resolution	3
___	ECP	200*	Transition to Paramedic Care	2
___	WRIT	101W*	College Writing I	3
			First Semester Total	**18**

Spring Semester

✔	Course	#	Title	Credits
___	ECP	201*	Paramedic Fundamentals	3
___	ECP	202*	Paramedic Fundamentals Lab	1
___	ECP	204*	Medical Emergencies I	3
___	ECP	205*	Medical Emergencies I Lab	1
___	ECP	206*	EMS Case Studies	3
___	ECP	216*	Hospital Clinical I	5
			Second Semester Total	**16**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	ECP	230*	Trauma	3
___	ECP	231*	Trauma Lab	1
___	ECP	235*	EMS Operations	3
___	ECP	234*	Medical Emergencies II	2
___	ECP	236*	Medical II / EMS Operations Lab	1
___	ECP	246*	Hospital Clinical II	6
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	CAPP	131*	Basic MS Office	2
___	ECP	250*	NREMT Exam Preparation	2
___	ECP	251*	NREMT Exam Preparation Lab	2
___	ECP	295*	Clinical III: Field Experience	8
			Second Semester Total	**14**
			Total Credits	**64**

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- Students enrolled in this program may participate in a Service Learning opportunity, which could qualify them to be eligible to receive an education award. For more information, contact the AmeriCorps office at 756-3908.
- A field experience is required for this program.

General Academic Requirements

- Paramedicine is a demanding program whose graduates maintain high academic and professional standards.
- Students in the paramedicine program must achieve at a minimum a "C-" or better grade in all non-core courses. Any grade of less than a "C-" will require retaking the course.
- Any course in the "ECP" series will require a grade of "B-" or better. Students must maintain an 80% grade average throughout the course of the core study to continue in the program.
- Students wishing to enroll in any ECP course, with the exception of ECP 130, must have submitted an application and received a letter of acceptance from the program director.

Admission Guidelines

Placement/Acceptance in the Paramedic core training courses are subject to the following conditions/limitations:

- **Candidates must have a valid NREMT certification, and be able to obtain Montana state EMT licensure prior to beginning ECP core courses in the paramedic program.[1]**
- Applications are available April 1st and must be completed and returned no later than May 15th. The priority application deadline is April 15th.
- Placement in the paramedic core training is not guaranteed within two years.
- A maximum of 12 students will be accepted to begin the Paramedic (ECP) course series.
- All students enrolled in ECP courses must have a current personal health insurance policy.
- Candidates must pass an entrance examination and screening process including an interview by members of the paramedic advisory committee.
- Candidates are subject to extensive background checks by the college, clinical sites, field internship sites, the National Registry of EMTs (NREMT) and the Montana Board of Medical Examiners (MT BOME).
- Compliance with all clinical and field internship site policies regarding Health Insurance Portability and Accountability Act (HIPAA) is mandatory.
- Placement is competitively based.

[1]ECP 130* is offered all semesters.

(continued on next page)

Due to a class size limitation of 12 students, acceptance into the paramedic core courses is based on an application process and is competitive. This may result in a student needing more than two years to complete their degree requirements.

Program Accreditation

- The Paramedicine AAS program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

Commission on Accreditation of Allied Health Education Programs
1361 Park Street
Clearwater, FL 33756
(727) 210-2350
www.caahep.org

Additional Costs

- There are lab fees associated with the classes in this program. They are listed for each course in the semester schedule.
- ECP 200*and ECP 206* are on-line courses and additional fees apply.
- ECP 201*, ECP 204*, ECP 230*, ECP 234*, and ECP 250* are hybrid courses and additional fees apply.
- The student is responsible for the purchase of their apparel for the clinical/field portion of the program.
- Students in the paramedicine program must comply with Northwest Healthcare clinical policy agreement standards (which includes vaccinations/immunizations or appropriate lab work to ensure adequate protection from communicable diseases).

Opportunities After Graduation

- EMTs and Paramedics held about 210,700 jobs across the nation in 2008. Most career EMTs and paramedics work in metropolitan areas, however there are also job opportunities in smaller cities, towns and rural areas. EMTs and paramedics are employed in a number of industries, including emergency medical services agencies (EMS), local governments, and hospitals. Employment for EMTs and paramedics is expected to increase between 2008 and 2018, according to the U.S. Department of Labor. Job prospects should be good, particularly in cities and private ambulance services.

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Patient Relations Specialist

Certificate

Patient Relations Specialists are very important to a medical office or hospital. The Patient Relations Specialist is often the first person with whom a patient interacts with over the phone or upon arriving at a medical office. Therefore, the Patient Relations Specialist is integral to shaping the patient's first impression of the medical practice, which could shape the patient-provider relationship for the long-term.

Patient Relations Specialists manage the flow of information in doctors' offices and other health care establishments. They set up appointments, organize paperwork and distribute information via mail, telephone and email. Patient Relations Specialists use desktop publishing programs and digital graphics to make spreadsheets, manage data and create documents on computers. They also communicate with vendors, inspect leased supplies and organize stockrooms and are often responsible for training new employees. Upon completion of this program, students will:

- Communicate professionally and effectively;
- Demonstrate professional work habits expected in the medical profession, including maintaining privacy;
- Format medical documents;
- Apply data to an electronic health record;
- Schedule patients, answer phones, organize records;
- Use current technology in a medical office;
- Use appropriate medical terminology; and
- Perform functions for a medical office such as scheduling appointments, filing and formatting medical documents.

Fall Semester

✔	Course	#	Title	Credits
___	AHMS	105	Health Care Delivery	3
___	AHMS	127*	Medical Document Formatting	2
___	AHMS	144	Medical Terminology	3
___	CAPP	131*	Basic MS Office	2
___	TASK	110	Keyboarding	1
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**14**

Spring Semester

✔	Course	#	Title	Credits
___	AH	117	Medical Setting Customer Care and Privacy	1
___	AH	155	Essentials of Electronic Health Records	1
___	AHMS	100*	Math Applications for Allied Health Professionals	3
___	AHMS	175	Medical Law and Ethics	3
___	AHMS	220*	Medical Office Procedures	4
___	AHMS	252*	Computerized Medical Billing	2
			Second Semester Total	**14**
			Total Credits	**28**

Admission Guidelines

- This program is an IBEST program. The goal of the IBEST programs at FVCC is for students to obtain an entry level professional/technical certificate allowing students to continue on the professional/technical degree pathway.
- Minimum Compass placement test scores:
  Math: above 17
  Writing: above 38
  Reading: above 60

Additional Fees

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- The Montana Department of Labor and Industry projected that employment in the medical office professions would grow by 16.9% from 2008-2018. This is much higher than the 11% growth rate projected for all occupations. The aging of the population will continue to drive employment increases in all occupations related to health care.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

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For general information, contact the Admissions office: (406) 756-3847.

*Indicates prerequisite and/or corequisite needed. Check course description.

Payroll Accounting
Certificate of Applied Science

This program will prepare students for entry level positions in the field of payroll. It also provides opportunity for additional knowledge to be gained by those employed in bookkeeping, accounts payable, accounts receivable, billing or office assistance. Opportunities for advancement will grow with increased skills and experience. Upon completion of this program, students will:

- Process payroll transactions in accordance with current payroll reporting requirements;
- Apply flexible solutions to accounting problems using spreadsheets;
- Communicate payroll information effectively within a business environment; and
- Understand types of business organizations.

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	180*	Payroll Accounting	2
___	ACTG	201	Principles of Financial Accounting	4
___	BMGT	215	Human Resource Management	3
___	BMGT	263	Legal Issues in Human Resources	3
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	122	Accounting and Business Decisions	2
___	ACTG	124*	Payroll Accounting Applications	3
___	ACTG	202*	Principles of Managerial Accounting	4
___	BMGT	250	Employment and Compensation Strategies	3
___	BGEN	201	Foundations of Business Ethics	3
			Second Semester Total	**15**
			Total Credits	**30**

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- This program is offered only at the Kalispell campus.

General Academic Requirements

- All courses within this certificate must be taken for a letter grade. No course may be taken on a Satisfactory/Unsatisfactory (S/U) basis.

Additional Fees

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- This certificate will prepare students for entry level payroll positions. Opportunities for advancement will grow with increased skills and experience.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

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rlaudati@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Personal Trainer
Certificate of Applied Science

Personal Trainers are responsible for safe and effective exercise prescription in health and fitness club settings. Thorough understanding of anatomy, muscle function, exercise prescription, basic nutrition and fitness assessment provide personal trainers with the knowledge to safely structure exercise programs for clients. Upon completion of this program, students will:

- Learn how to motivate clients in exercise and healthy life choices;
- Gain confidence to create safe and effective exercise programs;
- Understand how the body works to create muscle and metabolize fat;
- Become knowledgeable in fitness assessment techniques; and
- Develop relationships with other fitness professionals for lifelong learning.

Fall Semester

✔	Course	#	Title	Credits
___	BIOH	104N	Basic Human Biology	3
___	BIOH	105L*	Basic Human Biology Laboratory	1
___	COMX	115C	Introduction to Interpersonal Communication	3
___	ECP	100	First Aid and CPR	2
___	HEE	220	Introduction to Physical Education	3
___	HTH	110	Personal Health and Wellness	3
			First Semester Total	**15**

Spring Semester

✔	Course	#	Title	Credits
___	KIN	201*	Basic Exercise Prescription	3
___	KIN	203	Functional Training	2
___	KIN	215*	Fitness Assessment Techniques	3
___	M	090*	Introductory Algebra	4
___	NUTR	221N	Basic Human Nutrition	3
			Second Semester Total	**15**
			Total Credits	**30**

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- This program is a Certificate of Applied Science program which can be done in two semesters.

Certifications

- Graduates of this program will be prepared to sit for a national certification exam through the American Council on Exercise (ACE), American College of Sports Medicine (ACSM), National Strength and Conditioning Association (NSCA) or Aerobics and Fitness Association of America (AFAA).

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- Fitness facilities require the expertise of proficient personal trainers. This is a growing industry with many job opportunities.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html

Advisor:
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BC 123-D
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lelwell@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Pharmacy Technology
Certificate

Pharmacy technicians assist and support pharmacists in providing health care and medications to patients. Pharmacy technicians often perform many of the same duties as the pharmacist. The Pharmacy Technology program is offered fall semester only. Upon completion of this program, students will:

- Demonstrate the pharmacy technician's scope of practice.
- Demonstrate the following:
  1) Accurate application of the five rights of pharmaceutical care: linking the right patient with the right prescriber with the right drug with the right directions, the right dose, and the right formulation;
  2) Professional interactions with the public, both face-to-face and via the phone;
  3) Appropriate and accurate calculations within a pharmacy setting;
  4) An understanding of quality control;
  5) An understanding of applicable state and federal laws;
  6) A knowledge of the top brand/generic drug names;
  7) Proper unit dose packaging;
  8) A knowledge of aseptic technique; and
  9) An understanding of the role of a technician in both hospital and community workplaces.
- Explain the correct protocol in the ordering, receiving, and documenting of drugs.
- Manage inventory control.
- Compare and contrast hospital and community pharmacy settings.
- Understand patient privacy expectations.

Fall Semester

✔	Course	#	Title	Credits
___	AHMS	144	Medical Terminology[1]	3
___	BIOH	104N	Basic Human Biology[1]	3
___	BIOH	105L*	Basic Human Biology Laboratory[1]	1
___	PHAR	115*	Pharmacy Technician Practice and Calculations[2]	4
___	PHAR	198*	Internship: Hospital and Community Pharmacy Practice[3]	5
			Total Credits	**16**

Strongly Recommended Course

___	TASK	150	Customer Service Strategies	1
	or			
___	AH	117	Medical Setting Customer Care and Privacy	1

[1]Course may be taken either as a prerequisite to or corequisite with PHAR 115* and PHAR 198*. Check course description.

[2]Course requires acceptance into the Pharmacy Technology Program.

[3]Course requires acceptance into the Pharmacy Technology Program and requires instructor's consent.

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- Pharmacy technology is a certificate program offered once a year during the fall semester.
- The program offers both classroom and practical, clinical experiences.
- Students receiving full-time financial aid should inquire about special conditions that apply to this program.

Admission Guidelines

Acceptance in the Pharmacy Technology program is subject to the following conditions/limitations:

- Students must be 18 years of age, have a high school diploma, or possess a GED, to enroll in the program.
- The number of seats in the Pharmacy Technology Program is subject to available clinical rotation sites and are filled on a first-come, first-served basis, with acceptance subject to admission conditions and limitations.
- Students must score a minimum of 30 in Algebra and a 74 or above on the Reading portion of the COMPASS placement test or have taken equivalent or higher-level college courses to be considered for the program, and should type at least 25 words per minute. Computer literacy and college-level writing skills are assumed.
- Submission of a completed Pharmacy Technology Application (available from FVCC Admissions Office, Blake Hall, Room 111 after January 1st) and all documentation required for a comprehensive background check and occupational health clearance by the 12th day in April.
- Comprehensive background check and occupational health clearance.
- Compliance with Health Insurance Portability and Accountability Act (HIPAA) policies is mandatory.

Certifications

- Graduates of this program will be prepared to sit for both the EXCPT and PTCB, national certification examinations.

Additional Costs

- There are lab, licensing, and other fees associated with this program. Lab fees are listed in the semester schedule. A non-refundable application fee of $30.00 is due at the time of application for background check.

Opportunities After Graduation

- Pharmacies in both community businesses and hospitals require certified pharmacy technicians to assist pharmacists. Opportunities for advancement grow with increased skills and experience as well as increased levels of certification.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

For general information, contact the Admissions Office: (406) 756-3847.

Physical Therapist Assistant

Associate of Applied Science Degree

Physical Therapist Assistants (PTAs) provide physical therapy services under the direction and supervision of a licensed physical therapist. PTA's help people of all ages who have medical or health-related conditions that limit their ability to move or perform functional activities in their daily lives. PTAs work in a variety of settings including hospitals, outpatient clinics, home health, extended care facilities, schools, and sports facilities. Upon successful completion of this program, students will:

- Follow a plan of care established by a physical therapist and carry out physical therapy interventions in a safe, ethical and competent manner at entry level;
- Demonstrate effective written, oral and nonverbal communication skills with patients, families/ caregivers, health care providers, peers, third-party payers and the public;
- Recognize the need for continued personal and professional growth to ensure competence in current practices of physical therapy and a commitment to lifelong learning;
- Demonstrate behavioral expectations as established by the APTA in the Values-Based Behaviors for the Physical Therapist Assistant (January 2011);
- Participate as an effective member of the health care team and educate the health care community on the respective roles of the PT and PTA; and
- Show a personal commitment of health and wellness and dedication to service to the profession of physical therapy and the community.

First Year

Required Prerequisite Courses

✔	Course	#	Title	Credits
___	AHMS	100*	Math Applications for Allied Health Professionals	
	or			
___	M	121M*	College Algebra	3
___	AHMS	144	Medical Terminology	3
___	AHPT	105	Introduction to Physical Therapist Assisting[1]	3
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	COMX	111C	Introduction to Public Speaking	
	or			
___	COMX	115C	Introduction to Interpersonal Communication	3
___	IDS	135C	Thinkering: How to Problem Solve	3
	or			
___	PSYX	100A	Introduction to Psychology	4
	or			
___	PSYX	230A*	Developmental Psychology	3
___	WRIT	101W*	College Writing I	3
			Prerequisite Total	**26-27**

[1]AHPT 105 is offered Spring semester only.

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	AHPT	101*	Physical Therapist Assisting I/Lab	5
___	AHPT	205*	Anatomy and Kinesiology for the PTA	6
___	AHPT	206*	Pathophysiology for the Physical Therapist Assistant	3
___	AHPT	210*	Clinical Experience I[1]	3
___	AHPT	218*	Therapeutic Exercise for the PTA	2
			First Semester Total	**19**

Spring Semester

✔	Course	#	Title	Credits
___	AHPT	201*	Physical Therapist Assisting II/Lab	5
___	AHPT	213*	Neurorehabilitation for the PTA	6
___	AHPT	215*	Introduction to Orthopedics	4
___	AHPT	220*	Clinical Experience II[1]	3
			Second Semester Total	**18**

Summer Semester

✔	Course	#	Title	Credits
___	AHPT	225*	Seminar and Project in Physical Therapist Assisting	3
___	AHPT	230*	Clinical Experience III[2]	5
			Third Semester Total	**8**
			Total Credits	**71-72**

[1]AHPT 210* and AHPT 220* includes a four-week rotation at an approved

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- Prior to applying to the program, students must have completed or be in the process of completing the first year of prerequisite courses by the end of spring semester. Students may be advised to take BIOB 160NL, Principles of Living Systems, in preparation for BIOH 201NL*, Human Anatomy and Physiology I, prerequisite math courses in preparation for AHMS 100*, Math Applications for Allied Health Professionals, and prerequisite English classes in preparation for WRIT 101W*, College Writing I.
- Human Anatomy and Physiology I and II completed more than five years ago will require program permission to be considered as an applicant.
- Students enrolled in this program may participate in a Service Learning opportunity, which could qualify them to be eligible to receive an education award. For more information, contact the AmeriCorps office at 756-3908.

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- A grade of "C" or higher is required for ALL non-PT courses, and a "C+" or higher is required within the established PTA curriculum in order to progress through the PTA program.
- Once a student is officially accepted or admitted into the PTA program, each PTA course must be passed with a grade of at least a "C+" for the student to continue in the program. If any course grade is less than a "C+" the student must withdraw from the PTA program (a "C" will not be accepted in technical PTA courses). Remediation will be attempted after filling out an Action Plan form to formulate a plan for improving performance in technical PTA courses. A failing grade will require that the course be repeated, and re-enrollment for courses being repeated will be on a space-available basis. Because PTA technical courses are offered only once per year, this could mean students must wait until the following year to petition for readmission to the program.
- A minimum grade of a "C+" is expected for the student to continue in the program.

Admission Guidelines

- Students must apply for select admission to the PTA program.
- Applications may be printed off of the FVCC PTA Program website or picked up in the Admissions Office or in the PTA Program Director's office, BC 123-B, beginning the second week in January and must be returned no later than the second Friday in May. Once applicants have met all the program criteria, selected students will be interviewed by PTA faculty. Students will be informed of their admission status into the PTA program by the second Friday in June.
- Admission to the program is based upon the following:
  1) High school diploma or GED
  2) Successful completion of the prerequisite first-year courses (a minimum grade of "C" must be earned in each class with an overall GPA of at least a 2.75)
  3) Clinical observation hours (minimum of 30 hours with at least 10 in an inpatient setting)
  4) An interview
- Students admitted into the program are required to have a background check and drug screen and medical health insurance at the student's expense.

Program Accreditation

- Effective August 2, 2012, Flathead Valley Community College's Physical Therapist Assistant program has been granted Candidate for Accreditation status by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (1111 North Fairfax Street, Alexandria, VA, 22314; phone: (703) 706-3245; email: accreditation@pata.org). Candidacy is not an accreditation status nor does it assure eventual accreditation. Candidate for Accreditation is a pre-accreditation status of affiliation with the Commission on Accreditation in Physical Therapy Education that indicates the program is progressing toward accreditation.

Certifications

- Graduates of this program will be eligible and prepared to take the National Physical Therapist Assistant Licensing Exam.

Additional Costs

- There are program fees associated with some of the classes in this program. They are listed in the PTA program application and on the website.
- Once accepted into the PTA program at FVCC, students may incur costs associated with travel to various locations required for internships, one of which may be outside of the Flathead Valley.

Opportunities after Graduation

- According to the Bureau of Labor Statistics, employment is expected to grow much faster than average because of increasing demand for physical therapy services. Job prospects for physical therapist assistants are expected to be very good (an increase of 35% between 2008 and 2018).

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For general information, contact the Admissions office: (406) 756-3847.

Practical Nursing

Associate of Applied Science Degree

The focus of the practical nursing curriculum is to provide education leading to basic knowledge of the biological, physical, behavioral, psychological, and sociological sciences and of nursing procedures. This program uses standardized procedures in the observation and care of the ill, injured, and infirm, in the maintenance of health, in action to safeguard life and health, and in the administration of medications and treatments. Upon completion of this program, students will:

- Provide direct care to clients in structured health settings who are experiencing common, well-defined health problems;
- Contribute to the nursing assessment by collecting and reporting accurate subjective and objective data;
- Participate in the development of the plan of care, as well as the implementation of the plan;
- Contribute to the evaluation of the response to care and any modifications of care indicated;
- Identify developmental level, knowledge, and cultural beliefs of assigned clients;
- Use basic communication techniques for interviewing and documentation;
- Perform basic preventive and therapeutic nursing procedures ordered for assigned clients using fundamental principles;
- Advocate on behalf of clients, families and others;
- Recognize the benefit and need for continued learning in order to maintain knowledge and skills;
- Adhere to the statues and regulations governing nursing within the legal and ethical boundaries of practical nurse practice; and
- Demonstrate professional values when interacting with peers, faculty, clients, families, and health care team members.

First Year

Fall Semester (Required prerequisite courses):

✔	Course	#	Title	Credits
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	CHMY	121NL*	Introduction to General Chemistry	4
___	M	121M*	College Algebra	3
___	WRIT	101W*	College Writing I	3
			First Semester Prerequisite Total	**14**

Spring Semester (Required prerequisite courses):

✔	Course	#	Title	Credits
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	NRSG	100	Introduction to Nursing	1
___	NUTR	221N	Basic Human Nutrition	3
___	PSYX	100A	Introduction to Psychology	4
			Second Semester Prerequisite Total	**12**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	NRSG	130*	Fundamentals of Nursing	7
___	NRSG	135*	Nursing Pharmacology	3
___	NRSG	138*	Gerontology for Nursing	2
___	NRSG	144*	Core Concepts of Mental Health Nursing	2
			First Semester Total	**14**

Spring Semester

✔	Course	#	Title	Credits
___	NRSG	140*	Core Concepts of Adult Nursing	7
___	NRSG	142*	Core Concepts of Maternal Child Nursing	3
___	NRSG	148*	Leadership Issues	2
			Second Semester Total	**12**
			Total Credits	**52**

Strongly recommended course:

✔	Course	#	Title	Credits
___	NURS	101*	Nurse's Aide Training	5

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

This is a demanding program whose graduates will be required to actively participate in and subscribe to the legal and ethical tenets of the discipline.

- All Nursing Programs require a background check and several immunizations prior to being allowed to register for classes.
- A grade of "C" or higher is required for ALL non-nursing courses. A grade of "C-" will not be accepted. Once a student has applied and been accepted into the practical nursing program, each course can only be attempted once and must be passed with a grade of at least a "C+" for the student to continue in the program. If any course grade is less than a "C+," the student must withdraw from the practical nursing program but may apply for re-entry at a later date (a grade of "C" will not be accepted). If re-entry is approved the student may be required to retake all NRSG courses.
- To assure progression through the program, the student must meet the total academic and clinical requirements. Therefore, satisfactory classroom academic performance does not, in and of itself, assure progression through the program.
- Students enrolled in this program may participate in a Service Learning opportunity, which could qualify them to be eligible to receive an education award. For more information, please contact the AmeriCorps office at (406) 756-3908.

Program Approval

- The practical nursing program is approved by the Montana State Board of Nursing.

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Admission Guidelines

Applications for formal acceptance into the practical nursing program are accepted once a year. Applications are available after March 1 and must be completed and returned by the last Friday in April. In order to be considered for acceptance into the practical nursing program, the student must have:

- Completed or be currently enrolled in and complete all of the following required prerequisite courses with a grade of "C"or higher ("C-" will not be accepted) BIOH 201NL*, BIOH 211NL*, CHMY 121NL*, NUTR 221N*, M 121M*, NRSG 100, PSYX 100A, and WRIT 101W*;
- Selective GPA of at least 2.75 (out of 4.0 scale) in **all** prerequisite courses;
- Completion of the human anatomy and physiology courses and chemistry must be within 10 years of admission date. Individuals who have completed an associate's or bachelor's degree may request evaluation by the nursing program faculty for a possible exception;
- Hepatitis B series complete with antibody titer results **(this is a lengthy process which takes over 7 months; don't delay);**
- Annual flu shot;
- Proof of Measles (Rubeola), Mumps and Rubella immunity;
- Proof of chicken pox immunity by statement verifying that student had, or vaccination dates and lab titer;
- Proof of one dose of Tetanus/Pertussis (Tdap) as an adult;
- Must be in degree status at FVCC with all records required on file;
- Signed application and $20.00 non-refundable processing fee; and
- Once admitted, students must provide proof of current personal health insurance policy, complete a background check and have a TB skin test to finalize the acceptance process.

Certifications

- Graduates of this program are eligible to take the National Council of State Board of Nursing's Examination for Practical Nurses (NCLEX-PN). After passing the test, the Montana Board of Nursing grants licensure to practice as a Licensed Practical Nurse in the State of Montana.

Additional Costs

- In addition to tuition and lab fees, nursing students should be aware that required nursing textbook/ reference materials are expensive and that many courses require several texts. The student should also plan for a number of out-of-pocket expenses related to clinical supplies and other course/program requirements.

Opportunities After Graduation

- There is an immediate need for practical nurses in a variety of health care facilities in the Flathead Valley. Employment includes clinics, dialysis centers, and long term care.

Advisors:

Erika DeCree, BC 102-D
(406) 756-3628, edecree2fvcc.edu

Dawn Denny, BC 102-C
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For general information, contact:

Cathy Fabel, Nursing Program Assistant
BC 102
(406) 756-3385
cfabel@fvcc.edu

Pre-Health
Certificate

The Pre-Health Certificate program is designed to provide students with a broad set of knowledge and skills, allowing them to explore different health career opportunities and prepare them for immediate entry into Emergency Medical Technician or Certified Nurse's Aide fields. The program is further designed to provide students with the background of courses required for entry into various health-oriented academic program career tracks. The program is flexible, allowing students to select between several course options in a way that allows each student to advance their career and/or academic goals. Upon completion of this program, students will:

- Effectively practice basic and advanced skills required in some entry-level health care occupations;
- Demonstrate understanding of various health-related career opportunities and their educational requirements; and
- Qualify for certification on some health-related academic career tracks.

✔	Course	#	Title	Credits
___	BIOB	101NL	Discover Biology	
	or			
___	BIOB	160NL	Principles of Living Systems	4
___	CHMY	105NL*	Explorations in Chemistry	
	or			
___	CHMY	121NL*	Introduction to General Chemistry	4
___	ECP	130*	Emergency Medical Technician	
	or			
___	NURS	101*	Nurse's Aide Training	5
___	HTH	101	Opportunities in the Health Professions	2
	or			
___	NRSG	100	Introduction to Nursing	1
___	HTH	110	Personal Health and Wellness	3
___	M	095*	Intermediate Algebra	4
			Total Credits	**21-22**[1]

*Indicates prerequisite and/or corequisite needed. Check course description.

[1]Students planning to pursue a specific field after completion should consider those program requirements to determine which program course options to take.

Program Information

- Contact your advisor for program information.

Admission Guidelines

- All courses must be completed with a "C" or better to complete the certificate.
- Some courses require a universal background check and several immunizations.
- ECP 130* and NURS 101* have limited enrollment. Contact your advisor for more information.

Certifications

- Upon successful completion of ECP 130* or NURS 101*, students are eligible to sit for either the national written and practical exam for certification as an Emergency Medical Technician - Basic or the State of Montana written and practical exam for certification as a Certified Nurse Assistant.

Additional Costs

- Several courses have lab fees and required equipment in addition to the tuition and regular fees for courses.

Opportunities After Graduation

- Students who complete the required courses for the certificate will find they have several options for employment in entry-level health care positions.
- In addition to these entry-level skills, students will have completed some of the courses required for other health care careers, thus positioning themselves for greater opportunity for success as they continue their education.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

For general information, contact the Admissions office: (406) 756-3847.

Advisor:
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Radiologic Technology

Associate of Applied Science Degree

Radiologic Technologists are skilled in creating images of the human body with the use of ionizing radiation. The radiologic technologist student is trained in diagnostic x-ray procedures and fluoroscopy, digital radiography, surgery, trauma and pediatrics, with plenty of hands-on practical experience. They are also educated in patient care, x-ray equipment physics, and are responsible for radiation safety. Upon completion of this program, students will:

- Perform as a vital member of the medical team by providing high quality, diagnostic images;
- Excel in providing patient care, and demonstrate knowedge about current radiation standards;
- Possess the potential to continue education in computed tomography, nuclear medicine, ultrasound, MRI, interventional radiography, or radiation therapy; and
- Be qualified to work as a radiologic technologist upon passing the state registry exam and applying for state licensure.

Required prerequisite courses:

✔	Course	#	Title	Credits
___	AHMS	144	Medical Terminology	3
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	M	095*	Intermediate Algebra	4
___	WRIT	101W*	College Writing I	3
			Prerequisite Total	**18**

First Year

Fall Semester

✔	Course	#	Title	Credits
___	AHMS	100*	Math Applications for Allied Health Professionals	3
___	AHXR	101*	Patient Care in Radiology	2
___	AHXR	110*	Radiographic Procedures I	2
___	AHXR	115*	Radiographic Principles I	2
___	AHXR	195*	Radiographic Clinical: I	4
			First Semester Total	**13**

Spring Semester

✔	Course	#	Title	Credits
___	AHXR	108N*	Introduction to Radiologic Physics	3
___	AHXR	111*	Radiographic Procedures II	2
___	AHXR	116*	Radiographic Principles II	2
___	AHXR	195*	Radiographic Clinical: II	5
			Second Semester Total	**12**

Summer Semester

✔	Course	#	Title	Credits
___	AHXR	295*	Radiographic Clinical: III	8
			Third Semester Total	**8**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	AHXR	210*	Radiographic Procedures III	2
___	AHXR	225*	Radiobiology/Radiation Protection	2
___	AHXR	295*	Radiographic Clinical: IV	8
			First Semester Total	**12**

Spring Semester

___	AHXR	211*	Radiographic Procedures IV	2
___	AHXR	270*	Radiographic Registry Review	2
___	AHXR	295*	Radiographic Clinical: V	8
			Second Semester Total	**12**

Total Credits **75**

*Indicates prerequisite and/or corequisite needed. Check course description.

Advisors:

Colleen Bench, (406) 751-5767, cbench@krmc.org
Dr. Sue Justis, BC 123-C, (406) 756-3866, sjustis@fvcc.edu

Program Information

- When applying to the Radiologic Technology program, students must have completed or **be in the process of completing** the following classes OR their equivalent by the end of spring semester: BIOH 201NL* and BIOH 211NL*, M 095*, WRIT 101W*. Students may be advised to take Discover Biology (BIOB 101NL) or Principles of Living Systems (BIOB 160NL) in preparation for Human Anatomy and Physiology, prerequisite math courses in preparation for Intermediate Algebra (M 095*) and prerequisite English classes in preparation for College Writing I (WRIT 101W*). A grade of "C" or higher is required for ALL prerequisite courses.
- Human Anatomy and Physiology I and II (BIOH 201NL* and BIOH 211NL*) completed five or more years ago will require program permission for transfer credit.
- Students may be exempt from taking M 095* with appropriate score on the COMPASS placement test, but must take a math class at a higher level.
- Admitted students may contact the Financial Aid Office to learn about scholarship opportunities, including the Ellen and John MacMillan Endowed and the Dustin Petersen Memorial.
- Students enrolled in this program may participate in a Service Learning opportunity, which could qualify them to be eligible to receive an education award. For more information, contact the AmeriCorps office at (406) 756-3908.

Admission Guidelines

- Students must apply for select admission to this program.
- Applications are available after January 15 and must be completed and returned by the last working day in February.
- Admission to the program is based upon the following:
  1) High school diploma or GED
  2) Evidence of academic achievement in the four prerequisite courses (a minimum of "C" must be earned in each class)
  3) A well-written essay
  4) Positive reference(s)
  5) An interview
- Students admitted into the program are required to have a background check and medical health insurance at the student's expense. In addition, applicants with a felony after age 18 will not be accepted into the program.

General Academic Requirements

- Students in the Radiologic Technology program must earn a "C"or better in ALL classes in the two-year program.

Certifications

- Graduates of this program will be eligible and prepared to take the registry examination administered by the American Registry of Radiologic Technologies (ARRT).
- Graduates must apply for licensure with the state of Montana prior to employment.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- Employment is projected to grow most rapidly in medical offices, clinics and diagnostic imaging centers. Radiologic technologists have the opportunity for advancement with experience and specialization in areas such as radiation treatment, ultrasound and nuclear medicine.

For general information, contact the Admissions office: (406) 756-3847.

Registered Nursing

Associate of Science Nursing Degree

The Registered Nursing program prepares graduates to function as members and leaders of health care teams in various health care environments. Upon completion of the Associate of Science (ASN)-Registered Nursing curriculum, the graduate will:

- Assess clients and formulate a nursing diagnosis and plan, implement and evaluate nursing care provided in structured health care settings;
- Utilize standards of nursing practice, and demonstrate accountability of nursing care given by self and/or delegated to others;
- Collect, analyze and synthesize relevant data to formulate clinical decisions and implement interventions for the provision of safe, quality care that includes consideration of environmental influences;
- Advocate for clients and families in ways that promote their self-determination, integrity, and ongoing growth as human beings throughout the lifespan;
- Communicate with clients, families, and health team members in a manner that demonstrates sensitivity to individual and cultural diversity;
- Coordinate care of a group of clients by collaborating and consulting with the interdisciplinary health team, clients and families;
- Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices, and an evolving identity as a nurse committed to evidence-based practice;
- Practice within the ethical, legal and regulatory frameworks of nursing and provide care to individuals, groups, and families, while utilizing a knowledge base from the natural and social sciences and humanities; and
- Demonstrate self-assessment leading to personal development and lifelong learning.

Fall Semester

✔	Course	#	Title	Credits
___	NRSG	250*	LPN to RN Transition	3
			First Semester Total	**3**

Spring Semester

✔	Course	#	Title	Credits
___	BIOM	250NL*	Microbiology for Health Sciences	4
___	NRSG	252*	Complex Care Maternal/Child Client	3
___	NRSG	254*	Complex Care/Mental Health Client	2
___	NRSG	258N*	Principles of Pathophysiology	4
			Second Semester Total	**13**

Summer Semester

✔	Course	#	Title	Credits
___	NRSG	262*	Complex Care Needs-Adult Client	4
___	NRSG	265*	Advanced Clinical Skills Lab	1
___	NRSG	266*	Managed Client Care	4
___	SOCI	101A*	Introduction to Sociology	3
			Third Semester Total	**12**
			Total Credits	**28**

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- All Nursing programs require a background check and several immunizations prior to being allowed to register for classes.
- The focus of the Associate of Science Nursing curriculum is to offer education leading to the knowledge that supports the ASN RN to provide direct care to clients, individuals or groups in a variety of structured settings with clear policies and procedures.
- Completion of an Associate of Science Nursing degree in Registered Nursing does not guarantee FVCC's or the Montana University System's general education core is fulfilled.

Admission Guidelines

- Entry into the ASN program is by application only. The current application process is available at www.fvcc.edu.
- A grade of "C" or better is required for ALL non-nursing courses. A grade of "C-" is not acceptable.
- The application process requires that an applicant has a current, unencumbered Montana LPN license and/or is a graduate of the Montana statewide PN program and is eligible to take the NCLEX-PN and has successfully completed the following coursework with a "C" or better: BIOH 201NL*, BIOH 211NL*, CHMY 121NL*, M 121M*, NRSG 100, NUTR 221N*, PSYX 100A, and WRIT 101W*.

Licensure

- Graduates of the program are eligible to take the National Council of State Boards of Nursing's examination for Registered Nurses (NCLEX-RN). After passing the test, the Montana Board of Nursing grants licensure to practice as a Registered Nurse in the state of Montana.

Additional Costs

- In addition to tuition and lab fees, nursing students should be aware that required textbook/reference materials are expensive and many courses require several text books. The students should also plan for a number of out-of-pocket expenses related to clinical supplies and other course/program requirements.

Opportunities After Graduation

- Individuals who successfully completed the ASN program and pass the NCLEX-RN exam will find many employment opportunities available to them in a wide variety of health care settings in Northwest Montana and other locations.
- A graduate of the program may choose to continue their education by pursuing a Bachelor's or Master's degree in nursing.

Advisors:

Erika DeCree, BC 102-D
(406) 756-3628, edecree2fvcc.edu

Dawn Denny, BC 102-C
(406) 756-3943, ddenny@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Small Business Management

Associate of Applied Science Degree

This program is designed to give the student a high level of proficiency as a small business manager or entrepreneur. Upon completion of this program, students will:

- Read, understand, explain, and use basic financial statements to make management and marketing decisions;
- Use Microsoft Office, Word, and Excel as related to business applications;
- Understand and apply basic business law applications to daily business operations, organizational issues and personnel;
- Explain the advantages and disadvantages of various organizational formats available to the small business owner;
- Develop a basic business plan, marketing plan and financial projections as commonly used in business;
- Explain the importance of Human Resource Management to the overall management of an organization, including job analysis, job descriptions, job specifications, hiring, training, and employee appraisal;
- Explain agencies available to assist the small business owner such as Small Business Administration (SBA), Small Business Development Center (SBDC), Service Corps of Retired Executives (SCORE), and Active Corps of Executives (ACE); and
- Explain the pros and cons of various funding options available for starting or expanding a business.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	101	Accounting Procedures I	4
___	BMIS	211*	Introduction to Business Decision Support	4
___	COMX	115C	Introduction to Interpersonal Communication	3
___	COMX	150CF	Video Communication	3
___	M	108*	Business Mathematics	4
	or			
___	M	115M*	Probability and Linear Mathematics	3
	or			
___	M	145Q*	Mathematics for the Liberal Arts	3
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**17-18**

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	102*	Accounting Procedures II	4
___	BFIN	205	Personal Finance	3
___	BMGT	210	Small Business Entrepreneurship	3
___	BMGT	237	Human Relations in Business	3
___	BMKT	225	Marketing	3
___	____	___	Elective (ACTG, BADM, CAPP, CMPA, CSCI)	2
			Second Semester Total	**18**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	180*	Payroll Accounting	2
___	BFIN	220*	Understanding Financial Statements	2
___	BGEN	235	Business Law	4
___	BMGT	235	Management	3
___	ECNS	201B	Principles of Microeconomics	3
___	____	___	Electives	2-3
			First Semester Total	**16-17**

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	150*	Accounting on Microcomputers	3
___	BFIN	222*	Small Business Budgeting	1
___	BFIN	224*	Cash Flow Analysis	2
___	BGEN	280*	Business Planning	3
___	BGEN	299*	Capstone	3
___	ECNS	202GB	Principles of Macroeconomics	3
			Second Semester Total	**15**

Total Credits **66-68**

Optional Course Offerings

✔	Course	#	Title	Credits
___	BGEN	298*	Internship	3

*Indicates prerequisite and/or corequisite needed.

Program Information

- An internship is an option for this program. Students must apply for placements for this program the prior semester. See page 25 for more information and application deadlines.
- The program is designed to give the student a high level of proficiency as a small business manager/owner.
- The program provides students with the basics of Small Business Entrepreneurship.

Admission Guidelines

- See normal prerequisites as noted in catalog course descriptions.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.
- Some classes may only be offered online. All online courses are assessed a distance delivery fee.

Opportunities After Graduation

- This degree prepares graduates for entry level positions in small business management or provides the basics for starting one's own business. Graduates may gain experience managing others' businesses and then open their own. Self employment is the fastest growing income sector in Flathead County. Small businesses employ over 70% of all employees in Montana and create 50% of all new jobs in the U.S.

Advisor:
Chris Hanchett
BSS 107
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chanchet@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Substance Abuse Counseling

Associate of Arts Degree

This program is designed to meet the academic requirement for the State of Montana's Licensed Addiction Counselor (not intended to transfer to any institution). This program is designed to provide the student with the most up-to-date knowledge in the field of addictions. Upon completion of this program, students will:

- Understand addiction
  1. Understand a variety of models and theories of addiction and other problems related to substance abuse.
  2. Describe the behavioral, psychological, physical health, and social effects of psychoactive substances on the user and significant others.
- Understand treatment
  1. Describe the philosophies, practices, policies, and outcomes of the most generally accepted and scientifically supported models of treatment, recovery, relapse prevention, and continuing care for addiction and other substance-related problems.
  2. Recognize the importance of family, social networks, and community systems in the treatment and recovery process.
- Apply knowledge
  1. Understand the established diagnostic criteria for substance use disorders and describe treatment modalities and placement criteria within the continuum of care.
  2. Provide treatment services appropriate to the personal and cultural identity and language of the client.
- Demonstrate Professionalism
  1. Understand the importance of self-awareness in one's personal, professional, and cultural life.
  2. Understand the addiction professionals' obligations to adhere to ethical and behavioral standards of conduct in the helping relationship.

State of Montana Licensed Addiction Counselor's Test

- After graduating with this option, the student must complete 1,000 hours of supervised work experience in a state-licensed substance abuse program in order to apply for the Montana Licensed Addiction Counselor's test. This requirement is subject to change.

First Year

✔	Course	#	Title	Credits
___	BIOB	160NL	Principles of Living Systems	4
___	CAS	140	Addictions and Diversity	1
___	CAS	242*	Fundamentals of Substance Abuse and Addiction	3
___	COMX	115C	Introduction to Interpersonal Communication	3
___	HTH	205	Drug Issues for Education	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
___	_____	____	Fine Arts (F) Requirement	3
___	_____	____	Humanities (H) Requirement [1]	3
___	_____	____	Mathematics (M or Q) Requirement	3
___	_____	____	Social Sciences (B) Requirement [2]	3
			First Year Total	**34**

Second Year

✔	Course	#	Title	Credits
____	CAS	248*	Substance Abuse Counseling II	3
____	CAS	250*	Assessment and Case Management, Processes	2
____	HS	210*	Case Management	2
____	HS	250*	Interviewing/Crisis Intervention	4
____	HS	279*	Legal, Ethical, and Professional Issues in Human Services	3
____	PSYX	240A*	Fundamentals of Abnormal Psychology	3
____	PSYX	250NA*	Fundamentals of Biological Psychology	3
____	PSYX	264*	Fundamentals of Group Dynamics	3
____	SOCI	220GA	Race, Gender, and Class	3
____	____	_____	Humanities (H) or Fine Arts (F) Requirement [1]	3
			Second Year Total	**29**

Total Credits 63

Recommended electives as course loads and time permit:

✔	Course	#	Title	Credits
___	PSYX	230A*	Developmental Psychology	3
___	PSYX	260A*	Fundamentals of Social Psychology	3
___	PSYX	275*	Fundamentals of Behavior Modification	3
___	SOCI	101A	Introduction to Sociology	3

[1] Recommend PHL 110H and SPNS 101GH for a total of 8 credits.

[2] Recommend ECNS 101B or PSCI 210B .

*Indicates prerequisite and/or corequisite needed. Check course description.

Advisor:
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For general information, contact the Admissions office: (406) 756-3847.

Support Professional

Associate of Applied Science Degree

This program combines business background with heavy emphasis on computer skills including spreadsheets, database, word processing, and some computer graphics. Upon completion of this program, students will:

- Demonstrate mastery in computer software skills including Word, Excel, QuickBooks, Dreamweaver, Web 2.0, and Social Media;
- Demonstrate speed and accuracy skills in data entry;
- Demonstrate interpersonal skills while working with teams, with customers, and with managers;
- Demonstrate basic marketing skills and marketing businesses on the web;
- Communicate using various mediums, including writing, verbal, and technology;
- Apply basic accounting functions to small business applications including Accounts Receivable, Accounts Payable, Payroll and QuickBooks; and
- Demonstrate basic knowledge of the law and business.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	ACTG	101	Accounting Procedures I	4
___	BMGT	237	Human Relations in Business	3
___	BMIS	211*	Introduction to Business Decision Support	4
___	TASK	113*	Keyboarding and Document Processing	3
___	TASK	125*	Editing Skills for Information Processing	2
___	TASK	150	Customer Service Strategies	3
			First Semester Total	**19**

Spring Semester

✔	Course	#	Title	Credits
___	ACTG	150*	Accounting on Microcomputers	3
___	BMKT	225	Marketing	3
___	CAPP	110	Short Courses: MS Outlook	1
___	M	108*	Business Mathematics	4
	or			
___	M	115M*	Probability and Linear Mathematics	3
___	TASK	210*	Office Success Strategies	3
___	WRIT	122C*	Introduction to Business Writing	3
			Second Semester Total	**16-17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	BGEN	235	Business Law	4
___	CAPP	154*	MS Word	3
___	CAPP	156*	MS Excel	3
___	CMPA	275	Web Development Tools: Dreamweaver	4
___	ITS	280*	Computer Repair and Maintenance	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BMKT	130	Search Engine Marketing	3
___	BMKT	131*	Introduction to Social Media Marketing	3
___	BMKT	132*	Writing for Web Marketing	3
___	COMX	215	Negotiations/Conflict Resolution	3
___	IDS	135C	Thinkering: How to Problem Solve	
	or			
___	ITS	221*	Project Management	3
			Second Semester Total	**15**

Total Credits **67-68**

Optional Course Offerings:

✔	Course	#	Title	Credits
___	TASK	298*	Internship	3

*Indicates prerequisite and/or corequisite needed.
Check course description.

Program Information

- All required courses within this degree program must be taken for a letter grade. Only electives may be taken on a Satisfactory/Unsatisfactory (S/U) basis.
- Microsoft Office User Specialist (MOUS) Certification for Word and Excel is recommended for this degree program. The certification examination is given at FVCC by appointment. See your advisor for details.
- An internship is an option for this program. Students must apply for placements for this program the prior semester. See page 25 for more information and application deadlines.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- Support Professionals, receptionists, clerks and data entry keyers work in organizations of every type. Major employers are educational institutions, insurance and temporary worker agencies. Support Professionals can advance to jobs such as word processing trainers, supervisors or managers.

Advisors:

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Surgical Technology

Associate of Applied Science Degree

Surgical technologists are integral members of the surgical team, working closely with surgeons, anesthesiologists, registered nurses and other personnel in delivering patient care before, during, and after surgery. This is a physically demanding job that requires standing for extended periods of time and the ability to perform under pressure in emergency situations. The technologist may be exposed to communicable diseases, unpleasant sights, odors, and hazardous materials.

Some responsibilities of a surgical technologist include preparation of the operating room, instruments, supplies and equipment prior to the surgical procedure. During the surgical procedure, the technologist passes instruments, supplies and sutures to the surgeon and surgical assistant. The surgical technologist must maintain a strong knowledge of human anatomy, allowing them to anticipate the needs of the surgeon in an ever-changing environment.

Upon completion of the program, the graduate will have the attitude, knowledge, and skills necessary to enter the profession of surgical technology. The specific goals are as follows:

- Work with surgeons, anesthesiologists, nurses and other health professionals in providing direct or indirect patient care while demonstrating positive work ethic, professionalism and appropriate interpersonal skills in the surgical setting;
- Organize surgical instrumentation, supplies and equipment in an efficient manner while utilizing principles of aseptic technique for physical preparation and maintenance of the surgical environment;
- Perform under pressure in stressful and emergency surgical situations;
- Demonstrate understanding of biomedical sciences, technology and the concepts, principles and skills of surgical technology as it applies to the patient-focused events that occur in the operating room;
- View self as a contributing member to the discipline and a valuable participant in meeting health needs of the community; and
- Sit for the national certification examination to become a Certified Surgical Technologist (CST).

The pre-surgical technology courses are to be completed before applying to the program but do not have to be taken in one semester.

Pre-surgical Technology Courses

✔	Course	#	Title	Credits
___	AHMS	100*	Math Applications for Allied Health Professionals	3
___	AHMS	144	Medical Terminology	3
___	BIOH	201NL*	Human Anatomy and Physiology I	4
___	CAPP	131*	Basic MS Office[1]	2
___	COMX	115C	Introduction to Interpersonal Communication	3
___	PSYX	100A	Introduction to Psychology	4
___	WRIT	101W*	College Writing I	3
			Semester Total	**22**

Surgical Technology Curriculum

Spring Semester

✔	Course	#	Title	Credits
___	AHST	101*	Introduction to Surgical Technology	4
___	AHST	116*	Surgical Techniques I with Lab	5
___	BIOH	211NL*	Human Anatomy and Physiology II	4
___	BIOM	250NL*	Microbiology for Health Sciences	4
			Semester Total	**17**

Fall Semester

✔	Course	#	Title	Credits
___	AHST	203*	Applied Surgical Technology Procedures	6
___	AHST	216*	Surgical Techniques II with Lab	3
___	AHST	250*	Surgical Clinical I	4
___	BIOL	170*	Disease Processes/Pharmacology	4
			Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	AHST	207*	Professional Development and Leadership	3
___	AHST	255*	Advanced Surgical Clinical	10
			Semester Total	**13**
			Total Credits	**69**

*Indicates prerequisite and/or corequisite needed. Check course description.

[1] Students who are proficient in MS Office programs and other computer skills need not take this course.

(continued on next page)

Program Information

- This program is a two-year curriculum, which includes both classroom (didactic) and hands-on training (clinical) intended to prepare students to assist in surgical operations. **Application deadline for the spring Surgical Technology Program is the first Friday in November. Late and incomplete applications will not be considered.**
- Many students need preliminary math, biology and English courses before being accepted into the required courses. These courses may increase the total number of program credits. Students should review their math, English and biology placement before planning their full program schedules.
- Students enrolled in this program may participate in a Service Learning opportunity, which could qualify them to be eligible to receive an education award. For more information, contact the AmeriCorps office at (406) 756-3908.

Program Accreditation

- This program has been designed in accordance with the 6th Ed. Core Curriculum for Surgical Technology and functions within the current standards and guidelines set forth by the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC-STSA), sponsored by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).
- Only students who have attended CAAHEP and ABHES accredited program are eligible to take the national certification exam administered by the National Board of Surgical Technology and Surgical Assisting (NBSTSA). Passing the national examination qualifies the individual as a Certified Surgical Technologist (CST®). The Association of Surgical Technologists (AST) recommends that all surgical technologists obtain this certification.

Admission Guidelines

To be admitted, applicants must submit:
- FVCC college application;
- Surgical Technology application;
- Official transcript from high school or GED certificate;
- Official transcript from other colleges or vocational schools attended (upon being accepted);
- Experience in health care, if any;
- Well-written essay and references;
- Interview with faculty; and
- Successfully passed all pre-surgical technology courses.

Admitted students have the following additional requirements that must be completed before the start of the second year:

- Verification of measles, mumps, and rubella;
- TB skin test or chest x-ray;
- History of chicken pox or vaccination;
- Proof of immunization with the vaccine for Hepatitis B;
- Background check will be conducted at the student's expense;
- A current personal health insurance policy; and
- Current Heart Saver/AED/CPR certification.

The above requirements associated with costs will be at the personal expense of the student, in addition to tuition and books.

General Academic Requirements

- Students in the Surgical Technology program must earn a grade of "C" (2.0) or better in ALL classes in the two-year program.
- Students enrolled in any of the core classes, "AHST," are required to maintain an 80% grade average throughout the course of the core study to continue in the program.
- This is a demanding program. Graduates will have maintained high academic and professional standards.
- Human Anatomy and Physiology I and II completed five or more years ago will require program director's permission.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.
- Transportation to and from clinical sites.
- Must purchase scrubs.

Opportunities After Graduation

- Employment for surgical technologists is projected to grow 24% by 2016, much faster than the average for all occupations as the volume of surgeries increase. The number of surgical procedures is expected to rise as the population grows and ages.
- Hospitals will continue to be the primary employer of surgical technologist, although much faster employment growth is expected in offices of physicians and in outpatient care centers, including ambulatory surgical centers. Job opportunities will be best for technologists who are certified.

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For general information, contact the Admissions office: (406) 756-3847.

Surveying

Associate of Applied Science Degree

This program is designed to prepare students to enter the land surveying profession as surveying technicians, instrument persons, drafters, and/or office technicians.
The philosophy of the program is that all students are potentially seeking their professional land surveyors license. Success in the surveying program requires an above average proficiency in math and strong English skills. Graduates of the Surveying program will:

- Be able to function in field work activities including operating current instrumentation, searching for field evidence, taking and reducing field notes, and staking construction projects and boundary monumentation;
- Be able to function in office activities including calculator operations, computer data entry and analysis, manual and computer drafting of various survey-related drawings, and records research;
- Possess sufficient background knowledge and skills to enter a geographic information system entry level position; and
- Possess sufficient theoretical and practical surveying knowledge to sit for the Land Surveyor Intern exam.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CAPP	131*	Basic MS Office[1]	2
___	M	095*	Intermediate Algebra	4
___	M	123*	Surveying Mathematics I [1]	2
___	SRVY	152	Surveying Graphics	2
___	SRVY	241*	Introduction to Surveying for Land Surveyors I	5
___	WRIT	101W*	College Writing I	3
			First Semester Total	**18**

Spring Semester

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	3
___	M	124*	Surveying Mathematics II [2]	3
___	SRVY	242*	Introduction to Surveying for Land Surveyors II	5
___	SRVY	255*	Surveying Calculations	3
___	SRVY	262*	Public Land Survey System	3
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	PHSX	110*	Applied Physics[3]	4
___	SRVY	268*	CAD for Surveying Profession	4
___	SRVY	270*	Legal Principles in Surveying I	5
___	SRVY	283	GIS for Survey Analysis	4
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	SRVY	246*	Introduction to GPS for Surveyors	2
___	SRVY	247*	Survey-grade GPS Control and Analysis	3
___	SRVY	265*	Surveying Laws and Land Division	3
___	SRVY	271*	Legal Principles in Surveying II	2
___	SRVY	273*	Route Surveying	2
___	SRVY	275*	Analytic Photogrammetry and Remote Sensing	3
___	SRVY	280*	Land Surveying Computers	2
			Second Semester Total	**17**

Total Credits **69**

[1] Another CAPP, CMPA, or CSCI course may be subsituted with advisor approval.
[2] Another math sequence which includes coursework through Calculus may be substituted.
[3] Another physical science class may be substituted with advisor approval.

Additional Professional Development Program Offering:

✔	Course	#	Title	Credits
___	SRVY	290*	Undergraduate Research: Projects in GIS	2

Program Information

- Students lacking a proficient background in algebra, geometry, trigonometry, and/or English, will be advised to complete the survey degree program in three years. A typical first year of this three-year program is shown below:

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CAPP	106*	Short Courses: Computer Applications	1
___	COMX	111C	Introduction to Public Speaking	3
___	M	090*	Introductory Algebra	4
___	SRVY	152	Surveying Graphics	2
___	WRIT	095*	Developmental Writing	
	or			
___	WRIT	101W*	College Writing I	3
			First Semester Total	**13**

Spring Semester

✔	Course	#	Title	Credits
___	CAPP	131*	Basic MS Office	2
___	M	095*	Intermediate Algebra	4
___	WRIT	101W*	College Writing I	0-3
___	_____	____	Electives (CAPP, CSCI, DDSN, MCH)	4-10
			Second Semester Total	**10-19**

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Program Accreditation

- This program meets the educational requirements for licensing set by the Montana Board of Professional Engineers and Professional Land Surveyors.

College Preparation

- **Success in the surveying program requires an above average proficiency in math and strong English skills**. A minimum grade of "C-" must be achieved in all required surveying and math courses.

WUE Participation

- Out-of-state students from Alaska, Arizona, Colorado, Hawaii, Idaho, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington and Wyoming are eligible to apply for reduced tuition under the terms of the Western Undergraduate Exchange (WUE). Contact Marlene Stoltz in the Admissions Office at (406) 756-3846 for details.

Opportunities After Graduation

- Upon completion of this degree, the Land Surveyor Intern (LSI) exam can be taken. In Montana, an additional six years of experience under the supervision of a licensed surveyor is required before the actual licensing (LS) exam can be taken. Students seeking to become licensed in other states should verify specific state educational and experience requirements.

Advisor:
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ddorsett@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

*Indicates prerequisite and/or corequisite needed. Check course description.

Web Technology

Associate of Applied Science Degree

While enrolled in the Web Technology program, students will learn the creative and technical skills necessary to design and develop professional websites. The Web Technology program is ideal for individuals interested in website production and management. Upon completion of this program, students will:

- Identify qualities of good web page design by evaluating color, layout, navigation, and content;
- Create quality websites using a mix of XHTML, Dreamweaver, and Photoshop;
- Design and develop interactive media using HTML 5;
- Create interactive web documents using JavaScript, a client-side scripting language;
- Knowledge of network protocols and operating systems found within a network structure;
- Knowledge and skills to design and build databases for web applications;
- Integrate server-side programming and database technologies to create dynamic web applications; and
- Demonstrate marketing and managing techniques while working in a team environment to analyze, design, develop, and evaluate a website for a client.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	BMKT	225	Marketing	3
___	CMPA	275	Web Development Tools: Dreamweaver	4
___	CSCI	111	Programming with Java I	4
___	GDSN	149*	Digital Imaging I	3
___	WRIT	101W*	College Writing I	
	or			
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	BMKT	130	Search Engine Marketing	3
___	CMPA	270*	Advanced Web Design with XHTML and CSS	3
___	CSCI	211	Client Side Programming	4
___	IDS	135C	Thinkering: How to Problem Solve	3
___	M	095*	Intermediate Algebra	4
			Second Semester Total	**17**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	CMPA	274*	Interactive Media for the Web	3
___	COMX	111C	Introduction to Public Speaking	3
___	CSCI	210*	Web Programming	4
___	ECNS	201B	Principles of Microeconomics	
	or			
___	ECNS	202GB	Principles of Macroeconomics	3
___	ITS	164*	Networking Fundamentals	3
			First Semester Total	**16**

Spring Semester

✔	Course	#	Title	Credits
___	CSCI	213*	Web Programming Techniques: PHP II	4
___	GDSN	247*	Digital Portfolio Preparation	4
___	ITS	221*	Project Management	3
___	ITS	298*	Internship/Cooperative Education	3
			Second Semester Total	**14**
			Total Credits	**64**

*Indicates prerequisite and/or corequisite needed. Check course description.

Program Information

- Program emphasis is on developing skills in three areas of website responsibilities: content development, business management and technical operations.
- All required courses within this degree program must be taken for a letter grade. Only electives may be taken on a Satisfactory/Unsatisfactory (S/U) basis.
- Students must have access to a digital camera and/or scanner, as well as specified photo editing software, which is available on the Kalispell campus.
- An internship is required for this program. Students must apply for internship placements for this program the prior semester. See page 25 for more information and application deadlines.

Admission Guidelines

- Students with insufficient computer skills must complete CAPP 101* before beginning the curriculum. Consult with your advisor to see if this courses is required.

Certifications

- After completing this program, students can test for proficiency levels sponsored by the Word Organization of Webmasters™.

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- Designing, developing and maintaining websites.
- Managing web technology projects or businesses.
- Continuing education in the area of Graphic Arts.

Advisor:
Dawn Rauscher
BSS 105
(406) 756-3861
drausche@fvcc.edu

For general information, contact the Admissions office: (406) 756-3847.

Welding and Inspection Technology

Associate of Applied Science Degree

The Welding and Inspection Technology curriculum is designed to provide students experience in welding and inspection technology as it pertains to assembly, manufacturing, energy, structural construction and nondestructive testing. Nondestructive testing involves the inspection of a welding object in a manner that will not impair its future usefulness using one of the NDT test methods, visual inspection, liquid penetrant, magnetic particle, eddy current, ultrasonic and radiographic testing. This program provides education and training in common cutting and welding processes, CNC plasma cutting, AWS welding standards, OXYFUEL, SMAW, GMAW, GTAW, and FCAW processes, structural, pipe and plate welding, nondestructive testing and inspection testing, blueprint reading and communications and math competencies. Upon completion of this program, students will:

- Describe and demonstrate safe and proper use of each type of welding equipment;
- Select and demonstrate various joining processes;
- Read and interpret welding blueprints using a systemic process;
- Estimate type, quantity, cost, and weight of a welded fabrication from information on a blueprint;
- Demonstrate proper transport, setup, adjustment and use of all cutting and welding equipment;
- Use current industry technology to test and repair welding related equipment;
- Demonstrate proficiency in OXYFUEL, SMAW, GMAW, GTAW, and FCAW processes;
- Recognize, inspect and document proper applications of welding processes;
- Demonstrate techniques and devices for controlling heat effects during welding;
- Consistently use equipment safely in the performance of nondestructive testing;
- Demonstrate proficiency in the use of non-destructive testing equipment and the processes; and
- Use current AWS, ASME, and ASNT codes, welding procedures and recommended practices.

First Year

Fall Semester

✔	Course	#	Title	Credits
___	CAPP	106*	Short Courses: Computer Applications	1
___	M	111*	Technical Mathematics	3
___	WLDG	100	Introduction to Welding Fundamentals	4
___	WLDG	111*	Welding Theory I Practical	4
___	WLDG	117	Blueprint Reading and Welding Symbols	3
___	WRIT	122C*	Introduction to Business Writing	3
			First Semester Total	**18**

Spring Semester

✔	Course	#	Title	Credits
___	COMX	111C	Introduction to Public Speaking	
	or			
___	COMX	115C	Introduction to Interpersonal Communication	3
___	DDSN	114*	Introduction to CAD	3
___	ECP	104	Workplace Safety	1
___	NDTE	110 *	Introduction to Nondestructive Testing	3
___	WLDG	122*	Welding Theory III Practical	4
___	WLDG	185*	Welding Qualification Test Preparation	2
			Second Semester Total	**16**

Second Year

Fall Semester

✔	Course	#	Title	Credits
___	NDTE	111*	Liquid Penetrant and Magnetic Particle Testing	3
___	NDTE	112*	Ultrasonic Testing	5
___	NDTE	115*	Eddy Current Testing	3
___	WLD	112*	Introduction to Pipe Welding	4
___	WLD	121*	Welding Certification II	2
			First Semester Total	**17**

Spring Semester

✔	Course	#	Title	Credits
___	NDTE	120	Radiographic Testing/Film Interpretation	5
___	NDTE	125*	AWS D1.1 Code Book	2
___	WLD	135*	GMAW/GTAW Welding and Certification	4
___	WLDG	280*	Weld Testing Certification	4
			Second Semester Total	**15**

Total Credits **66**

*Indicates prerequisite and/or corequisite needed. Check course description.

Additional Professional Development Program Offerings

✔	Course	#	Title	Credits
___	DDSN	135	Solidworks	2
___	MCH	124	Advanced CNC Programming in MASTERCAM	3

Certifications:

- AWS D 1.1 in 3/8" Plate Certification
- AWS D 1.1 in Unlimited Thickness Certification
- AWS D 1.5 Bridge and Pipe Certification
- ASNT Level II Certification
- American Red Cross First Aid/CPR Certification

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities after graduation

- Career opportunities offer a wide range of possibilities as a welding technician in the fabrication and manufacturing industries, steel construction, nondestructive testing and weld inspection, mining, energy, petroleum, bridge construction and other production areas.

Advisor:
Mort Hill
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For general information, contact the Admissions office: (406) 756-3847.

Welding Technology

Certificate

The Welding Technology curriculum is designed to provide students experience in welding as it pertains to assembly, manufacturing, energy and structural construction. This program provides education and training in common cutting and welding processes, CNC plasma cutting, AWS welding standards, OXYFUEL, SMAW, GMAW, GTAW, and FCAW processes, structural, pipe and plate welding, blueprint reading and communications and math competencies. Upon completion of this program, students will:

- Describe and demonstrate safe and proper use of each type of welding equipment;
- Select and demonstrate various joining processes;
- Read and interpret welding blueprints using a systemic process;
- Estimate type, quantity, cost, and weight of a welded fabrication from information on a blueprint;
- Demonstrate proper transport, setup, adjustment and use of all cutting and welding equipment;
- Use current industry technology to test and repair welding related equipment; and
- Demonstrate proficiency in OXYFUEL, SMAW, GMAW, GTAW, and FCAW processes.

Fall Semester

✔	Course	#	Title	Credits
__	M	111*	Technical Mathematics	3
__	WLDG	100	Introduction to Welding Fundamentals	4
__	WLDG	117	Blueprint Reading and Welding Symbols	3
__	WLDG	111*	Welding Theory I Practical	4
			First Semester Total	**14**

Spring Semester

✔	Course	#	Title	Credits
__	WLD	112*	Introduction to Pipe Welding	4
__	WLD	121*	Welding Certification II	2
__	WLDG	122*	Welding Theory III Practical	4
__	WLDG	185 *	Welding Qualification Test Preparation	2
__	WRIT	122C*	Introduction to Business Writing	3
			Second Semester Total	**15**
			Total Credits	**29**

Optional Course Offerings:

✔	Course	#	Title	Credits
__	ECP	104	Workplace Safety	1
__	WLD	135*	GMAW/GTAW Welding and Certification	4
__	WLDG	280*	Weld Testing Certification	4

*Indicates prerequisite and/or corequisite needed. Check course description.

Certification:

- AWS D 1.1 in 3/8" Plate Certification
- American Red Cross First Aid/CPR Certification

Additional Costs

- There are lab fees associated with some of the classes in this program. They are listed in the semester schedule.

Opportunities after graduation

- Career opportunities offer a wide range of possibilities as a welding technician in the fabrication and manufacturing industries, including steel construction, mining, energy, petroleum and bridge construction.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

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For general information, contact the Admissions office:
(406) 756-3847.

3D Jewelry Design and Production

Certificate of Applied Science

This program prepares the student for employment in the high-tech field of CAD/CAM jewelry design and production. The central focus of this program integrates a rich and creatively challenging emphasis in computer-aided design/computer-aided manufacturing with fabrication, casting and stone setting. Upon completion of this program, students will:

- Learn and effectively practice basic and advanced technical skills in CAD/CAM;
- Understand the principles of vector-based drawing and relief editing;
- Gain experience in the proper use and maintenance of CNC mills; and
- Develop a sense of professionalism necessary for working successfully in the jewelry industry.

✔	Course	#	Title	Credits
___	ARTJ	210F	Jewelry and Metalsmithing I	3
___	ARTJ	231	3D Jewelry Design and Modeling I	4
___	ARTJ	232*	3D Jewelry Design and Modeling II	4
___	ARTJ	233*	3D Jewelry Design and Modeling III	4
___	ARTJ	234*	3D Jewelry Design and Modeling IV	4
___	ARTJ	240*	Jewelry Design and Rendering I	3
___	ARTJ	250	Wax Modeling and Casting I	3
___	M	111*	Technical Mathematics	3
___	WRIT	122C*	Introduction to Business Writing	3
			Total Credits	**31**

Additional professional development program offering:

___	ARTJ	260*	Stone Setting I	3

*Indicates prerequisite and/or corequisite needed. Check course description.

Admission Guidelines

- Any of the Level I classes are open to general students. No prior knowledge of jewelry fabrication is required for Level I classes.

General Academic Requirements

- All courses within this certificate program must be taken for a letter grade. No courses may be taken on a Satisfactory/Unsatisfactory (S/U) basis.
- This Certificate of Applied Science program requires a minimum of four semesters to complete.

Additional Fees

- There are lab fees associated with most of the classes in this program. They are listed in the semester schedule.

Opportunities After Graduation

- This certificate will prepare students for high-tech CAD/CAM CNC positions in the jewelry industry.

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at www.fvcc.edu/gainfulemployment.html.

Advisor:
Douglas Harling
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For general information, contact the Admissions office: (406) 756-3847.

Course Descriptions

Numbering

The Montana University System is moving to common numbering for all undergraduate courses:

- All public colleges and universities in Montana will use the same subject abbreviations or rubric (the letter codes that indicate the course subject), numbers and titles for courses taught on more than one campus.
- Most FVCC rubrics and numbers WILL CHANGE as implementation moves forward. However, course content will NOT change as a result of this process.
- Multiple disciplines have already undergone common course numbering as reflected in the course descriptions and preceding transfer curricula and career and technical program pages. For example, the new rubric for all ECON classes is now ECNS.
- The course number (e.g., WRIT 101) indicates the department (Writing) and the level of the course.
- Courses numbered 100 or higher assume college level reading ability.
- Courses numbered from:
  - 100 to 199 are freshman level
  - 200 to 299 are sophomore level
- The "~" after courses numbered under 100 indicates these courses are usually nontransferable but may apply towards an AAS degree at FVCC. Courses numbered under 100 may not be eligible for financial aid.
- The following course numbers apply to the disciplines that have undergone common course numbering:

Titles/Credits Vary

190, 290	Undergraduate Research
191, 291	Special Topics/Experimental Courses
192, 292	Independent Study
193, 293	Study Tours/Study Abroad
194, 294	Seminar/Workshop
195, 295	Fieldwork/Clinical/Practicum/Student Teaching
197, 297	Educational Methods Courses
198, 298	Internship/Externship/Cooperative Education
199, 299	Capstone

- **Course numbers followed by the letters listed below represent courses to be used to satisfy the general education core.**

C=Communications	M=Mathematics
F=Fine Arts	Q=Mathematics - AA degree only
G=Global Issues	A=Social Sciences Group A
H=Humanities	B=Social Sciences Group B
N=Natural Science (Non-conventional Lab)	W=Writing
L=Natural Science (Lab)	

AUTO BODY (ABODY)

ABODY 100 Collision Repair Conduct/ Safety/Equipment 2 credits

This course encompasses safe practices in auto body repair and refinishing. These standards are regulated by OSHA to include hazardous materials, flammable and combustible liquids, flammable and combustible materials, personal protective equipment, respiratory protection, control of hazardous energy (lockout/tagout), fire protection, fire extinguishers, machinery and machine guarding, abrasive wheel machinery, electrical, toxic and hazardous substances, hazard communication. Proper use and maintenance of all hand tools, power/pneumatic tools, industrial shop equipment used in an auto body shop setting. Collision repair terminology, workplace leadership, conduct and ethics. (Fall Semester)

ABODY 102 Non-Structural Repairs I 3 credits

This course encompasses an insight into the collision repair industry: how to analyze minor collision repairs and metal straightening methods. Areas of concentration include types of sheet metal used in the auto industry; steel strength; effects of impact; types of damage; techniques using body hammers, dollies and spoons; pulling damaged areas; identifying stretched metal and shrinking metal; preparing surfaces for body fillers; application of body fillers; sanding; shaping and featheredging methods of body fillers. Parts replacement and adjustment: How parts are fastened; hood, deck lid and component removal; replacement and adjustment; bumper removal, replacement and adjustment; fender removal, replacement and adjustment; door removal and installation. (Fall Semester)

ABODY 104 Auto Collision Mechanics 3 credits

This course encompasses the removal and installation of various mechanical components related to auto collision repairs. Areas of concentration include cooling systems, exhaust systems, fuel systems, brake systems, steering systems, suspension systems, and air conditioning systems. (Fall Semester)

ABODY 106 Surface Preparation and Painting I 3 credits

This course encompasses the preparation and repainting of auto parts and panels. Areas of concentration include sanding, masking, and jamming of doors, fender panels, cowlings, hoods, and trunks. The course will also cover priming and blocking and determining paint code locations. (Fall Semester)

ABODY 108 Introduction to Plastics and Adhesives 2 credits

This course encompasses minor repair of plastics and composites used in the auto industry in addition to removal and installation of plastic replacement parts. Areas of concentration include types of auto plastics, plastic identification, plastic welding, plastic adhesive repairs, plastic parts refinishing, and seam sealing. (Spring Semester)

ABODY 110 Non-Structural Repairs II 3 credits

Prerequisite: ABODY 102.
This course encompasses an extension of ABODY 102 to improve skills in the area of minor auto body repair. Continued areas of concentration include panel alignment, truck bed removal and replacement, door skin replacement, door hardware removal and installation, door hinge adjustment, inter panel removal and installation, windshield and rear glass removal and installation, partial panel removal and replacement, air and water leaks. (Spring Semester)

ABODY 112 Auto Painting and Refinishing II 3 credits

Prerequisite: ABODY 106.
This course encompasses an extension of ABODY 106 to improve skills in the area of auto refinishing. Continued areas of concentration include paint preparation review; topcoats review; comparison of durability of topcoats; spray gun application stroke; spray gun maintenance; types of water based paint; paint blending; spot repairs; refinishing methods; solid vs. metallic panel repairs; overall refinishing; application of single stage, dual coat and tri-coat finishes; refinishing rules; rigid plastic refinishing; flexible plastic refinishing; removal of masking materials and cleaning of the spray gun. (Spring Semester)

ABODY 198 Internship: Basic Auto Body 1 credit

Prerequisite: advisor's consent.
This course offers a supervised, structured learning experience at an approved autobody business facility. Students will receive an orientation to some basic duties and tasks performed by a technician, and will be assigned some very basic tasks expected of an entry level employee. Completion of these tasks, under the supervision of an experienced technician, will enhance the student's knowledge of the day-to-day work of a technician in this field. Prior to placement at an internship site, students will attend an internship orientation to learn the application and internship process. (Fall Semester)

ABODY 298 Internship: Advanced Auto Body 1 credit

Prerequisite: ABODY 198 and advisor's consent
This course offers a supervised, structured learning experience at an approved auto body business facility. Students will receive an orientation to some advanced duties and tasks performed by a technician, and will be assigned to assist in some of these tasks. Completion of these tasks, under the supervision of an experienced technician, will enhance the student's knowledge of the day-to-day work of a technician in this field. (Spring Semester)

ACTIVITIES: GENERAL (ACT)

Activity classes offer background and participation in the activity indicated and may be repeated once for credit. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating a course.

ACT 108 Total Fitness Women 1 credit
Formerly PE 119 Total Fitness for Women

Prerequisites: adequate muscle-skeletal strength to perform 20- 30 minutes of moderate impact aerobic activity and primary caregiver approval, if necessary.
A traditional floor dance course providing a low to intermediate aerobic workout with alternate moves demonstrated to increase or decrease intensity to individualize the course for optimal safety and benefit. This course will include warm-up, cardio exercise, resistance exercises with free weights, and cool-down with stretching. Discussions will focus on women's health issues specific to physical fitness, weight control, healthy food plans, and maintaining good health. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ACT 110 Beginning Weight Training 1 credit
Formerly PE 116 Weight Training: Fit and Trim

Personalized workouts are designed for each student's future goals in fitness and desired look. A comfortable combination of cardiovascular work and weight training are prescribed to give the proper balance for weight loss and muscle growth. Excellent for both men and women. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (All Semesters)

ACT 114 Beginning Rock Climbing 1 credit
Formerly PE 145 Basic Rock Climbing

This course introduces the student to movement on rock and to the techniques and safety systems to set up your own short climbs - top rope climbing systems. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ACT 120 Beginning Alpine Skiing 1 credit
Formerly PE 161 Alpine Skiing I

An introduction to the fundamentals of downhill skiing. Emphasis will be on the development of basic skills and tactics. Students will start with walking and sliding and progress to turning and stopping. Students will be able to ski intermediate slopes by the end of the course. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Spring Semester)

ACT 121 Snowboarding Basics 1 credit
Formerly PE 156 Boarding Basics

For riders first strapping into their snowboards. An introduction to the fastest growing sport. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Spring Semester)

ACT 128 Circuit Aerobics 1 credit
Formerly PE 121 Circuit Aerobics

This course introduces students to five different styles of aerobic exercise: step aerobics; circuit with step aerobics; Pilates; aerobox; and floor (low pact) aerobics. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ACT 132 Cardioboxing 1 credit
Formerly PE 124 Cardioboxing

A high cardio course with upbeat music which utilizes basic boxing techniques. Students work out with gloves on a free-standing bag. Also referred to as Boot Camp Boxing. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

ACT 133 Water Exercise 1 credit
Formerly PE 127 Aquaerobics

A fitness course, without joint stress, working totally in the water to tone and stretch muscles while developing cardiovascular fitness. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (All Semesters)

ACT 146 Beginning Golf 1 credit
Formerly PE 137 Golf

All phases of golf - fundamentals, rules and etiquette. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Summer Semester)

ACT 150 Beginning Yoga 1 credit
Formerly PE 130 Beginning Yoga

The purpose of this course is to introduce students to Hatha Yoga physical exercise. The Yoga postures exercise every part of the body; stretching and toning the muscles and joints, the spine and the entire skeletal system. Postures also work on the internal organs, glands and nerves. By releasing physical and mental tension, they also liberate vast resources of energy as well as maintaining the balance between the mind and the body. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ACT 169 Beginning Tennis 1 credit
Formerly PE 108 Beginning Tennis

This course is an introduction to the game of tennis for beginning or novice tennis players. Emphasis will include instruction on rules and etiquette, proper use of equipment, basic strokes, basic shots, serves, returns, and game strategies (singles and doubles). Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (All Semesters)

ACT 220 Intermediate Alpine Skiing 1 credit
Formerly PE 162 Alpine Skiing II

Ski program for intermediate level skiers which will increase their technical knowledge and skill level. Emphasis will be in developing parallel and advanced parallel skills. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Spring Semester)

ACT 221 Intermediate Snowboarding 1 credit
Formerly PE 158 Free Style Riding at the Mountain

Prerequisite: advanced riders only.
Trying to keep up with your coach through steeps, bumps, powder, trees, park and half-pipe. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course (Spring Semester).

ACT 223 Advanced Alpine Skiing 1 credit
Formerly PE 163 Alpine Skiing III

A program for intermediate/advanced skiers to develop the technical and tactical skills to ski all conditions and all terrain. The course will include an introduction to gate racing, mogules and steep terrain. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Spring Semester)

ACT 226 Cruising at the Mountain 1 credit
Formerly PE 157 Cruising at the Mountain

Prerequisite: must be able to ride green and blue terrain.
Working through all aspects of snowboarding from riding blue trails, keeping up with your kids, riding the board on the snow, not through the air. Mostly just feeling more confident all over the mountain. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Spring Semester)

ACT 250 Pilates 1 credi
Formerly PE 140 Pilates

A mind/body form of exercise designed to improve breathing, strength, balance, and flexibility - all functioning to change the posture and promote wellness. Focusing on the "powerhouse" of the body (the abdominal and low back region). Pilates has been used for rehabilitation, sport training, and general conditioning. Pilates programs consist of fundamental movements as well as specific movement forms utilizing the postures of the fundamentals. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

ACT 269 Intermediate Tennis 1 credit
Formerly PE 110 Intermediate Tennis

This course is an extension of ACT 169 with special emphasis on developing and enhancing the tennis skills and strategies of intermediate and advanced players. Instruction will include a review of rules and etiquette, as well as improving strokes, shots, serves, returns, and game strategies (singles and doubles). Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (All Semesters)

ACT 283 Logger Sports 1 credit
Formerly PE 142 Logger Sports

Prerequisite: instructor's consent.
An introduction to the safe and proper use of crosscut saws, axes and chain saws as they are used in intercollegiate Logger Sports competition. Emphasis is placed on equipment maintenance, safety of use and proper techniques for competition. The last third of the term, students will compete in Logger Sports contests throughout the Northwest. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ACT 285 Handgun Marksmanship 1 credit
Formerly PE 112 Handgun Marksmanship

Prerequisite: instructor's consent.
This course will enable students to become aware of the responsibility, ethics and need for safe handling and firing of handguns. The standard NRA pistol protocols are followed and firing is conducted in an indoor 50 ft. range. Students take the national NRA examination and receive the official NRA certificate of completion. Combat shooting and self-defense instruction are not a formal part of the instruction. A .22 caliber handgun is required of all class participants. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall Semester)

ACCOUNTING (ACTG)

ACTG 101 Accounting Procedures I 4 credits

A practical course in the foundations of accounting. Emphasizes the complete accounting cycle for a sole proprietorship service business as well as the cycle for a merchandising firm. Covers receivables and payables as well as banking transactions and payroll. (Fall and Spring Semesters)

ACTG 102 Accounting Procedures II 4 credits

Prerequisite: ACTG 101 or instructor's consent.
A continuation of ACTG 101. Covers notes payable and receivable, valuation of receivables, inventories, plant and equipment, the voucher system, accounting for partnerships and corporations, financial statement analysis, and cash flow statements. (Spring Semester)

ACTG 122 Accounting and Business Decisions 2 credits

This course covers: selecting a financial entity, registering with the tax authorities, reviewing financial statements and accounting concepts, calculating payroll taxes, selecting a year end, calculating income taxes, cash planning and financing a business. (Spring Semester)

ACTG 123 Computerized Payroll Accounting 2 credits

Prerequisite: ACTG 180.
Corequisite: ACTG 124.
This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms and journal and general ledger transaction. Emphasis is placed on software application in computation of wages: calculating social security, income and unemployment taxes; preparing appropriate payroll tax forms; and journalizing/posting transactions. (Spring Semester)

ACTG 124 Payroll Accounting Applications 3 credits

This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms and journal and general ledger transactions. Emphasis is placed on using software applications for calculation of wages, social security, income and unemployment taxes; generating appropriate payroll tax forms and reports; and journalizing/posting transactions. (Spring Semester)

ACTG 150 Accounting on Microcomputers 3 credits

Prerequisites: ACTG 101 or ACTG 201; BMIS 211 or CAPP 131. Corequisite: ACTG 102 or ACTG 202.
This course provides students with a realistic approach to computerized accounting principles using QuickBooks Pro. Students will learn QuickBooks functions while completing accounting problems using this software. In addition, students will also complete accounting functions using Access and Excel. (Spring Semester)

ACTG 180 Payroll Accounting 2 credits

Prerequisite: ACTG 101 or ACTG 201.
An introduction to payroll accounting including relevant federal and state income tax laws and labor laws, pension plans, worker's compensation, unemployment insurance and necessary records and reports. (Fall and Spring Semesters)

ACTG 201 Principles of Financial Accounting 4 credits

An introduction to the theory and application of accounting covering double entry accounting, the accounting cycle, merchandising operations, control accounts and subsidiary ledgers, internal control, cash, short term investments, accounts receivable, merchandise inventory, plant assets, current liabilities, payroll, financial statement disclosures and long term liability. (Fall and Spring Semesters)

ACTG 202 Principles of Managerial Accounting 4 credits

Prerequisite: a grade of "C" or better in ACTG 201.
A continuation of ACTG 201 including partnerships, corporate organization, dividends, retained earnings, earnings per share, long term liabilities, long term investments and consolidations, statement of cash flows, analysis and interpretation of financial statements, accounting for manufacturing operations, job order costing, process costing, cost volume profit relationships, business segments and departmental reporting, planning and budgeting. (Spring Semester)

ACTG 205 Computerized Accounting 2 credits

Prerequisite: ACTG 202, BMIS 211, CAPP 156, or instructor's consent.
A course providing the students with knowledge in the use of spreadsheets in analyzing financial data and preparing financial reports. Advanced features of spreadsheets will be covered. (Fall Semester)

ACTG 207 Advanced Accounting on Microcomputers 2 credits

Prerequisites: ACTG 202 and previous computer experience.
This course is designed primarily for the student enrolled in the Accounting Technology AAS degree program. The course will teach the student how to convert a hand-kept accounting system to a commercial computerized accounting system. The course includes theory and application of accounting controls, and conversion of accounts receivable, accounts payable, general ledger, payroll, inventory, and order entry. (Spring Semester)

ACTG 210 Cost and Advanced Accounting 4 credits

Prerequisite: ACTG 241 or instructor's consent.
The use of relevant accounting data and techniques in making management decisions. Covers types of costs and their relationships, present value techniques, budgets, break-even computations, costing systems and cost allocations. Also covers work-paper presentation techniques, long-term debt, correction of accounting errors and preparation of cash flow statements. (Spring Semester)

ACTG 211 Income Tax Fundamentals 4 credits

Prerequisite: ACTG 201.
A course designed to introduce the basic principles of federal taxation for the sole proprietor, partnership, or corporation. Includes income determination, deductions, sales of properties, depreciation and its recapture, nontaxable exchanges, dividends, corporate liquidations and S Corporations. (Fall Semester)

ACTG 231 Applied Accounting 2 credits

Prerequisite: ACTG 202.
Corequisite: ACTG 205.
This course applies terminology, concepts, and techniques learned in accounting to accounting software packages. It also covers setting up inventory, creating invoices, customizing forms, creating reports and graphs, payroll, processing payments, and using all other accounts. (Fall Semester)

ACTG 241 Intermediate Financial Accounting I 4 credits

Prerequisite: ACTG 202.
This course is aimed at those students wishing to pursue accounting: environmental and conceptual framework of financial accounting, review of the accounting process and financial statements, time value of money, cash and receivables, advanced inventory issues, advanced problems in long-term assets, and intangible assets. (Fall Semester)

ACTG 298 Internship 3 credits

Prerequisites: ACTG 180, ACTG 202, ACTG 211, ACTG 241, and completion of 30 credits with a grade point average of 2.0 or better. Submission of an internship application.
This course offers a supervised, structured learning experience at an approved business/organization. Students will receive training related to their field of study, enhance their academic learning, and gain exposure to the workplace. Students will receive assistance in developing application materials and finding worksites meeting learning and legal criteria from the Career Development Coordinator. (All Semesters)

AGRICULTURAL MANAGEMENT (AGMT)

AGMT 200 Agricultural Marketing 3 credits

This course provides an introduction to the marketing of agricultural products. Topics include purchasing, selling, processing, standardizing, grading, storage and marketing. Covers options for both large and small-scale agriculture, including commodity, wholesale, and direct sales. (Fall Semester)

ALLIED HEALTH (AH)

AH 117 Medical Setting Customer Care and Privacy 1 credit

This course is designed for health care workers to understand the importance of professionalism and the need to perform in a professional, ethical, legal and competent manner in a medical office setting. (Spring Semester)

AH 120 Configuring Electronic Health Records 3 credits

Prerequisite: admission into the Health Information Technology program.
A practical experience with a laboratory component, addressing approaches to assessing, selecting and configuring EHRs to meet the specific needs of customers and end-users. (Internet course only.) (Fall and Spring Semesters)

AH 140 Installation and Maintenance of Health IT Systems 3 credits

Prerequisite: admission into the Health Information Technology program.
This course focuses on the installation and maintenance of health IT systems, including testing prior to implementation including introduction to principles underlying system configuration with hands-on experiences in computer labs and on-site in health organizations. (Internet course only.) (Fall and Spring Semesters)

AH 155 Essentials of Electronic Health Records 1 credit

This course will provide a basic introduction to the history, theory, and potential benefits of electronic health records. This course will provide a hands-on experience using an EHR that can be applied directly to the health care workplace. (Spring Semester)

AH 230 Electronic Health Records 3 credits

The purpose of this course is to build a comprehensive understanding and comfort level with the electronic health record that will apply directly in the clinical workplace. (Intermittently)

AH 260 Practice and Information Management and Redesign 3 credits

Prerequisite: admission into the Health Information Technology program.
Fundamentals of health workflow process analysis and redesign as a necessary component of complete practice automation; includes topics of process validation and change management. (Internet course only.) (All Semesters)

ALLIED HEALTH - ATHLETIC TRAINING (AHAT)

AHAT 210 Prevention and Care of Athletic Injuries 3 credits
Formerly HLTH 205 Care and Prevention of Athletic Injuries

Prerequisite: ability to use internet and word processing.
This course presents an introduction to the field of athletic training. It presents the foundations of sports trauma, including the recognition and classification of sport injuries, as well as the prevention, evaluation and management of those injuries. Teaching is done through a combination of lecture and hands-on (lab) techniques. (Spring Semester)

ALLIED HEALTH: MEDICAL ASSISTING (AHMA)

AHMA 201 Medical Assisting Clinical Procedures I 4 credits

Prerequisites: a grade of "C-" or better in AHMS 144, BIOH 104, M 108.
A course designed to allow the student to begin to develop a basic knowledge of medical assistant skills required for completing the Medical Assistant AAS degree. The student learns how to perform vital signs, use electronic medical records charting, ready patients for the provider and assist, become knowledgeable in pediatrics, obstetrics and gynecology, as they apply to the medical office. This course will prepare the student to achieve a high standard of practice, confidentiality and professionalism in order to progress to AHMA 203. (Spring Semester)

AHMA 202 Medical Assisting Clinical Procedures I Lab 1 credit

This course gives the medical assistant student an opportunity to become proficient at performing the clinical skills required in AHMA 201 and AHMA 203.
(Spring Semester)

AHMA 203 Medical Assisting Clinical Procedures II 3 credits

Prerequisites: a grade of "B" or better in AHMA 201, a grade of "C" or better in AHMS 144, a grade of "C-" or better in ECP 100.
This course is designed to allow the student to advance the knowledge and skills required for completing the AAS degree of Medical Assistant. The student is trained in allergy testing, urinalysis, giving injections, performing phlebotomy, handling specimens, and principles of radiology. Throughout the course, emphasis on courteous treatment of the patient/client will be covered. CPR is also offered, as it is a requirement for those who advance to AHMA 298, Medical Assisting Externship. (Fall Semester)

AHMA 204 Medical Assisting Clinical Procedures II Lab 1 credit

This course gives the medical assistant student an opportunity to become proficient at performing the clinical skills required in AHMA 201 and AHMA 203. (Fall Semester)

AHMA 205 Medical Assisting Clinical Approaches I 1 credit

Prerequisites: AHMS 144, BIOH 104.
Corequisites: AHMA 201, AHMA 202.
This online course will present clinically-related case studies to students to encourage development of their critical thinking skills. The cases will be based on patient information related to material covered in AHMA 201 and its stated prerequisite courses. Online resources will be utilized to identify appropriate patient preparation for procedures. (Internet course only.) (Spring Semester)

AHMA 206 Medical Assisting Clinical Approaches II 1 credit

Prerequisite: AHMA 205.
Corequisites: AHMA 203, AHMA 204.
This course is intended to reinforce student preparation for on-site clinical experiences by researching case studies and applying critical thinking skills. Case studies will be based on patient information related to material covered in AHMA 203 and its stated prerequisite courses. (Internet course only.) (Fall Semester)

AHMA 220 Phlebotomy 3 credits

Prerequisite: AHMA 201, Program Director's consent.
Through a combination of classroom instruction and clinical rotations for practical experience, students will learn proper blood drawing, safety procedures, basic anatomy and physiology, special procedures, quality management and legal issues involved in blood collection. Students will complete the required hours needed in order to sit for the certified phlebotomist exam, if they desire to do so. The course is intended for Medical Assistant AAS degree students only. (Fall Semester)

AHMA 298 Medical Assisting Externship 4 credits

Prerequisites: a grade of "B" or better in AHMA 203, instructor's consent.
A course designed to provide on-site clinical experience in a physician's office or a clinic setting. It provides opportunities to perform various clinical and administrative procedures under the supervision of a doctor and office staff. (Spring Semester)

AHMA 299 Medical Assisting Portfolio Development 1 credit

Prerequisites: AHMA 203, AHMA 204.
A course designed to give medical assistant students an opportunity to review and discuss the educational competencies for the medical assistant as set forth by CAAHEP for accredited medical assisting educational programs. Throughout the semester, the students will compile previously collected documentation from required program courses that indicate in which class they learned each competency and how they were evaluated. The end product of the course will be a completed portfolio that details the progress of the student through the program. (Spring Semester)

ALLIED HEALTH: MEDICAL SUPPORT (AHMS)

AHMS 100 Math Applications for Allied Health Professionals 3 credits

Prerequisite: compass score of 43 and above or instructor's consent.
This course is designed to provide students with a solid mathematical foundation necessary to succeed in a health care profession. This course will review algebra, systems of measurement, medication and syringe calculations, ratio and proportions, calculations for IV therapy, basic statistics and ionic solutions and pH calculations. (Fall and Spring Semesters)

AHMS 101 Keyboard Formatting for Medical Reports 1 credit

Keyboard Kinetics is written to help students maximize productivity on the keyboard. It is designed to be worked through the entire duration of the course, coming back regularly to work through exercises and units to increase the student's typing speed. (All Semesters)

AHMS 104 Medical Specialties 3 credits

Medicine is a general term which encompasses many individual fields of medical practice. Orthopedics, gastrointestinal, neurology and many other specialties make up medical reports. The goal of this course is to give students experience with all of the specialties of medicine maximizing employability and opportunity. (All Semesters)

AHMS 105 Health Care Delivery 3 credits

The purpose of this course is to familiarize the student with the history and development of today's health care system in the United States. The lessons will provide an overview of the development of different types of facilities, the "continuum of care" concept that is the basis for modern health care, and examine the quality management process. Reimbursement mechanisms and managed care concepts that affect health care delivery are also included. (Fall Semester)

AHMS 108 Health Data Content and Structure 3 credits

Prerequisite: admission into the Health Information Technology program.
This course offers an in-depth analysis of data mobility including the hardware infrastructure (wires, wireless, and devices supporting them), the ISO stack, standards, Internet protocols, federations and grids, the NHIN and other nationwide approaches. (Internet course only.) (Fall and Spring Semesters)

AHMS 110 Study of the Human Body and Disease Process I 3 credits

This course covers the body and body systems, as well as how diseases and problems are manifested in each of the body systems. Filled with diagrams and descriptions, this unit is essentially for providing a knowledge foundation creating a correct medical report. (All Semesters)

AHMS 115 Study of the Human Body and Disease Process II 3 credits

Prerequisite: AHMS 110.
This course is a continuation of AHMS 110 and covers the body and body systems, as well as how diseases and problems are manifested in each of the body systems. Filled with diagrams and descriptions, this unit is essentially for providing a knowledge foundation creating a correct medical report. (All Semesters)

AHMS 120 Grammar Essentials for Medical Transcription 2 credits

This course covers English language skills, including rules for grammar and punctuation. In addition, it provides exercises and practice with English language basics in the context of medical reports. (All Semesters)

AHMS 125 Editing and Proofreading for MT 2 credits

This course provides editing and proofreading skills and practice in fine tuning medical reports and taking them from rough draft to finished quality. (All Semesters)

AHMS 127 Medical Document Formatting 2 credits

Prerequisite: TASK 110.
This course will assist students in understanding fundamental concepts and techniques related to formatting medical documents. These techniques will increase productivity and accuracy and create professional looking documents for the medical office. (Fall Semester)

AHMS 130 Physical Exam, Lab Data, Pharmacology 2 credits

This course will give the student practical experience in using resources for correct word selection, drug references, foreign phrases, and formatting for medical documents. (All Semesters)

AHMS 133 Language of Medical Transcription 2 credits

This course is designed to build an effective medical vocabulary which will significantly enhance the student's efficiency in performing the actual task of transcribing. Students will learn the basic blocks for building medical language. (All Semesters)

AHMS 135 Voice Recognition for Medical Support 1 credit

The purpose of this course is to educate students regarding speech recognition technology's role in the health information management industry. The course addresses common myths associated with the emergence of SRT, the history of SRT, and how SRT works. (All Semesters)

AHMS 140 MT Technology/Shortcuts/ Employment 1 credit

This course serves as a tool for potential employment as a medical transcriptionist. It provides information on how and where to find work for the transcriptionist. (All Semesters)

AHMS 144 Medical Terminology 3 credits

A systematic approach to scientific terminology in order to prepare students to function properly in fields related to the medical profession. Familiarity with word elements and competent use of a medical dictionary are emphasized. (All Semesters)

AHMS 175 Medical Law and Ethics 3 credits

This course is designed to prepare the medical office assistant for a variety of legal situations that arise in the medical office setting. This course will stress the importance of medical office personnel having knowledge of the law, personal protection, patient protection, physician protection, the duties of the physician, responsibility and standard of care. The course will also examine the difference between civil and criminal law, contracts, malpractice, and the economic impacts. This course will also offer a comprehensive vocabulary of legal terms. Case law will be examined in groups. (Spring Semester)

AHMS 198 Internship 3 credits

Prerequisites: AHMS 105, AHMS 144, AHMS 210, AHMS 252, BIOH 104, BIOH 105, BIOL 170, CAPP 106, TASK 145, WRIT 122.
Students will be required to complete 150 hours of supervised training in medical coding through on-the-job training in an approved business or organization. Hours will be arranged to fit students' and employers' schedules. (All Semesters)

AHMS 202 Beginning Medical Transcription 3 credits

This course will introduce transcribing medical documents. Students will listen to doctor's dictation of a patient's visit and transcribe these documents using the appropriate medical words, grammar, and formats. Students will also receive instruction of the foot pedal used to control the speed of the dictator's voice. (All Semesters)

AHMS 203 Medical Machine Transcription 3 credits

Prerequisite: AHMS 144, CAPP 154, TASK 113 or instructor's consent.
This course provides practice in machine transcription for the medical field. Students transcribe dictation emphasizing reports in the following medical areas: history and physical, x-ray, surgical, pathology, and discharge summary. (Intermittently)

AHMS 204 Intermediate Medical Transcription 3 credits

Prerequisite: AHMS 202.
This course is a continuation of AHMS 202. Students will gradually build from less complex report content and dictator difficulty level to more complex report content and dictator difficulty. (All Semesters)

AHMS 206 Advanced Medical Transcription 3 credits

Prerequisites: AHMS 202, AHMS 204.
This course is a continuation of AHMS 204. The course will build to more complex report content and dictator difficulty. All areas of study will be used including English language, keyboarding, using resources, and anatomy and physiology. Immediate feedback and text comparison will allow the student to compare reports with reports created by experienced medical transcriptionists to develop and perfect critical thinking skills. (All Semesters)

AHMS 208 Health Care Statistics 3 credits

Prerequisite: AHMS 100.
This course is designed to introduce statistical computation at the introductory level for use in health care facilities. Students will learn to extract information and perform statistical analysis to be used in making decisions for the health care facility. (Intermittently)

AHMS 209 Job Training Medical Transcription II 3 credits

Prerequisites: AHMS 144, AHMS 203.
This course is a continuation of AHMS 203. The course includes transcription and terminology in specific specialty areas including but not limited to OB/GYN, surgery, orthopedics, etc. (Intermittently)

AHMS 210 Basic Medical Coding 3 credits

Prerequisite: AHMS 144.
This course will cover the introduction and basic coding information for CPT, HCPCS, and ICD-9-CM coding sets. The focus of this class is learning guidelines and assigning CPT, HCPCS, and ICD-9-CM codes to a wide range of abbreviated coding scenarios covering different body systems and medical specialties. Complete source documents will be used periodically. AHIMA's Standards of Ethical Coding will be reviewed. Basic billing and reimbursement issues will be discussed. (Coding will be taught for the physician reimbursement, not the facility, so ICD-9-CM codes will not be covered. These are covered in the intermediate coding classes.) (Fall and Spring Semesters)

AHMS 212 CPT Coding 3 credits

Prerequisite: AHMS 210.
This course is a continuation of AHMS 210. Students will continue coding using the current CPT manual and coding from medical records and cases. (Summer Semester)

AHMS 214 ICD-9 Coding 3 credits

Prerequisite: AHMS 210.
This course is a continuation of AHMS 210. Students will be coding using the current ICD-9-CM coding book. Students will be coding from cases and medical records provided by the program. (Summer Semester)

AHMS 220 Medical Office Procedures 4 credits

Prerequisite: sophomore standing in the Health Care Office Management or Medical Assistant program or instructor's consent.
Sophomore level course designed for students pursuing medical field careers. A comprehensive course in office procedures, telephone skills, medical law, employment law, medical office billing, ICD and CPT coding, appointment scheduling, and medical record bookkeeping. (Fall Semester)

AHMS 250 Advanced Medical Coding 4 credits

Prerequisites: AHMS 210, AHMS 212, AHMS 214.
This capstone course provides students the opportunity to code from medical files using ICD-9-CM and CPT codes as necessary, complete appropriate insurance forms, and place the necessary codes on the 3M encoder software system. This course will help students bridge the gap between theoretical class work and practical application. (Spring Semester)

AHMS 252 Computerized Medical Billing 2 credits

Prerequisite: AHMS 210.
Course designed to provide hands-on training to the student seeking employment in the medical office. It will cover the fundamentals of ICD-9, SPT, and HCPCS coding and would be appropriate for the beginner or intermediate level office staff as well. (Spring Semester)

AHMS 280 Overview of Health Informatics Systems 4 credits

Prerequisite: admission into the Health Information Technology program.
This course provides an overview of the most popular EHR vendor systems highlighting the features of each, as they would relate to practical deployments and noting the differences between the systems. Students will work with simulated systems or real systems with simulated data. As they play the role of practitioners using these systems, they will learn what is happening under the hood. They will experience threats to security and appreciate the need for standards, high levels of usability and how errors can occur. Materials must support hands-on experience in computer labs and on-site in health organizations. (Internet course only.) (Fall and Spring Semesters)

AHMS 298 Internship: Coding On-the-Job Training 10 credits

Prerequisites: completion of the Medical Coding program, approval of program director.
This training is provided by the medical community. Students will have an opportunity to work with medical coders in the community upon completion of the Medical Coding program. (All Semesters)

AHMS 298 Internship: Medical Transcription 3 credits

Prerequisites: AHMS 203, AHMS 209.
Students will be required to complete 150 hours of supervised training in the medical transcription field in an approved facility. Hours will be arranged to fit students' and employers' schedules. (Spring Semester)

AHMS 298 Internship: Office Technology 3 credits

Prerequisites: CAPP 154, TASK 113, completion of 30 semester credits with a grade point average of 2.0 or better. Must have consent of internship coordinator and advisor.
This course offers a supervised, structured learning experience at an approved business/organization. Students will receive training related to their field of study, enhance their academic learning and gain exposure to the workplace. Prior to placement at an internship site, students will attend an internship orientation to learn the application and internship process. (All Semesters)

ALLIED HEALTH: PHYSICAL THERAPY (AHPT)

AHPT 101 Physical Therapist Assisting I / Lab 5 credits

Prerequisite: AHPT 105.
Corequisites: AHPT 205, AHPT 206, AHPT 210, and AHPT 218.
This course introduces students to a wide range of basic theory and skills used by the PTA. Topics include care applications and techniques, body mechanics, use of assistive devices for ambulation and transfer activities, pain management, and introduction to physical agents and modalities. (Fall Semester)

AHPT 105 Introduction to Physical Therapist Assisting 3 credits

This course is intended to provide an overview of the physical therapy profession. Topics covered in this class include the history, philosophy, and roles of various individuals in the physical therapy clinical setting. This course also includes an overview of ethical, legal, and psychosocial issues related to these roles such as chronic illness, aging, death/dying, the client's role in health management and regulations governing physical therapist assistants. (Spring Semester)

AHPT 201 Physical Therapist Assisting II / Lab 5 credits

Prerequisites: AHPT 101, AHPT 105, AHPT 205, AHPT 206, AHPT 210 and AHPT 218.
Corequisites: AHPT 213, AHPT 215, and AHPT 220.
The second of two sequential skills and procedures courses in the AHPT program. Course includes detailed coverage of the wide range of modalities used in physical therapy, instruction on gait analysis and treatment, an overview of massage techniques and application, and use of prosthetic devices. (Spring Semester)

AHPT 205 Anatomy and Kinesiology for the PTA 6 credits

Prerequisite: AHPT 105.
Corequisites:AHPT 101, AHPT 206, AHPT 210, and AHPT 218.
This course is a survey of the biomechanical aspects of the human musculoskeletal system in both normal and abnormal conditions. This includes the relationship between bone anatomy and joints to the mechanics of muscles at those joints, and the measurements of joint movement (i.e., goniometry) and muscle function. (Fall Semester)

AHPT 206 Pathophysiology for the Physical Therapist Assistant 3 credits

Prerequisite: AHPT 105.
Corequisites:AHPT 101, AHPT 205, AHPT 210, and AHPT 218.
This course is an introduction to medical and pathological conditions commonly encountered in rehabilitation settings. It includes the etiology, clinical signs and symptoms and treatment for various pathological and injury-related disorders treated in physical therapy. (Fall Semester)

AHPT 210 Clinical Experience I 3 credits

Prerequisite: AHPT 105.
Corequisites: AHPT 101, AHPT 205, AHPT 206, and AHPT 218.
This is an opportunity for the student to apply skills and techniques learned in AHPT 101, AHPT 105, AHPT 205, AHPT 206, and AHPT 218 in a clinical setting under the supervision of a clinical instructor. This course includes a four-week rotation at an approved site. (Fall Semester)

AHPT 213 Neurorehabilitation for the PTA 6 credits

Prerequisites: AHPT 101, AHPT 105, AHPT 205, AHPT 206, AHPT 210, and AHPT 218.
Corequisites: AHPT 201, AHPT 215, and AHPT 220.
This course is an introduction to both neuroanatomy and neurophysiology as it relates to diseases and injuries to the brain and spinal cord commonly treated by physical therapists. Students are introduced to normal and abnormal neurological development, disease processes and outcomes, and neurophysiological commonly used in treatment. (Spring Semester)

AHPT 215 Introduction to Orthopedics 4 credits

Prerequisites: AHPT 101, AHPT 105, AHPT 205, AHPT 206, AHPT 210, and AHPT 218.
Corequisites: AHPT 201, AHPT 213, and AHPT 220.
This course introduces the student to the mechanisms, management, and post-surgical rehabilitation of orthopedic injuries. Focus is given to the musculoskeletal concerns and therapy of both the pediatric and adult communities. (Spring Semester)

AHPT 218 Therapeutic Exercise for the PTA 2 credits

Prerequisite: AHPT 105.
Corequisites: AHPT 101, AHPT 205, AHPT 206, and AHPT 210.
This course focuses on exercise prescription tailored to the specific individual as well as general therapeutic exercises. Current health practices and theory are addressed in relation to nutrition/wellness within special populations with an emphasis on prevention. Techniques covered include palpation of landmarks, joint mobilization, use of therapeutic exercise devices with an emphasis on the joint regions. (Fall Semester)

AHPT 220 Clinical Experience II 3 credits

Prerequisites: AHPT 101, AHPT 105, AHPT 205, AHPT 206, AHPT 210, and AHPT 218.
Corequisites: AHPT 201, AHPT 213, and AHPT 215.
This is the second in three clinical experiences, in which the student will continue to apply skills and techniques learned in previous coursework. This course includes a four-week rotation at an approved site under the supervision of a clinical instructor. (Spring Semester)

AHPT 225 Seminar and Project in Physical Therapist Assisting 3 credits

Prerequisites: AHPT 101, AHPT 105, AHPT 201, AHPT 205, AHPT 206, AHPT 213, AHPT 215, AHPT 218, and AHPT 220.
Corequisite: AHPT 230.
This course allows the student to integrate all skills and techniques they have accumulated throughout their coursework and clinical experiences. The student will incorporate this material into a cumulative written project. In addition, they will take a cumulative exam of the AHPT curriculum. The course will aid the student in preparing and practicing for their AHPT licensure exams. (Summer Semester)

AHPT 230 Clinical Experience III 5 credits

Prerequisites: AHPT 101, AHPT 201, AHPT 205, AHPT 206, AHPT 210, AHPT 213, AHPT 215, AHPT 218, and AHPT 220.
Corequisite: AHPT 225.
This is the final of the three clinical experiences in which the student will apply the knowledge and techniques learned in previous courses. At this point the student should be demonstrating proficiency in all aspects of the clinical setting and should be showing confidence as an active member of the physical therapy team. This course includes an eight-week rotation at an approved site under the supervision of a clinical instructor. (Summer Semester)

ALLIED HEALTH: SURGICAL TECHNICIAN (AHST)

AHST 101 Introduction to Surgical Technology 4 credits

Prerequisite: admission into the Surgical Technology program.
Corequisite: AHST 116.
This course provides an introduction to the field of surgical technology. Emphasis on history, roles, education of the surgical technologist, work environment, career opportunities, attributes for success, legal and ethical concerns, hospital administration and organization, professional behaviors including utilizing the therapeutic-self, engaging in effective interpersonal relations and interactions. Students will be introduced to the importance of obtaining certification, and joining the national organization. (Spring Semester)

AHST 116 Surgical Techniques I with Lab 5 credits

Prerequisite: admission into the Surgical Technology program.
Corequisite: AHST 101.
This course introduces knowledge and techniques essential to the surgical technologist in preparation of the patient for surgical procedures. Emphasizes instrumentation, preparation and use of equipment and supplies, prepping, draping and positioning, and various roles of the surgical technologist and circulator in surgery. Provides an introduction to the physical organization of the surgical suite. (Spring Semester)

AHST 203 Applied Surgical Technology Procedures 6 credits

Prerequisites: AHST 101, AHST 116.
Corequisites: AHST 216, AHST 250.
This course emphasizes procedures in general, obstetric/gynecologic, ENT, oral maxillofacial, plastic/reconstructive, genitourinary, orthopedic, cardiothoracic, peripheral vascular, neurosurgery, laparoscopic and diagnostic procedures. (Fall Semester)

AHST 207 Professional Development and Leadership 3 credits

Prerequisites: AHST 101, AHST 116, AHST 203, AHST 216, and AHST 250.
Corequisites: AHST 255.
This course provides discussion of topics of special interest to surgical technologists. Includes resume writing, simulated job interview, case scenarios, and review for the National Certification Exam. Students are also required to complete the Program Assessment Exam conducted by the Association of Surgical Technologists. (Spring Semester)

AHST 216 Surgical Techniques II with Lab 3 credits

Prerequisites: AHST 101, AHST 116.
Corequisites: AHST 203, AHST 250.
A continuation of AHST 116. This course presents a study of basic patient care and advocacy in the peri-operative setting as performed by the surgical technologist. Emphasizes medical terminology, pharmacological and anesthesia applications, environmental and workplace safety, basic math, weights and measurements, robotics, electricity, and physics, syringes/hypodermic needles, and sterilization methods. In addition, students will present a PowerPoint presentation on a surgical procedure. (Fall Semester)

AHST 250 Surgical Clinical I 4 credits

Prerequisites: AHST 101, AHST 116.
Corequisites: AHST 203, AHST 216.
This first clinical course provides prearranged scheduled experiences in the operating room for the student surgical technologist. Experiences will begin observational, progressing to hands-on as skills develop. (Fall Semester)

AHST 255 Advanced Surgical Clinical 10 credits

Prerequisite: all course work in the Surgical Technology program.
Corequisite: AHST 207.
Students will be scrubbing in a hospital operating room. This clinical will prepare students to perform in the role of first scrub. Students will assist in a variety of surgeries and related duties. Students will apply their knowledge of surgical techniques, procedures, equipment, instruments, and supplies along with increasingly developing their skills to more complex procedures. This class will also have rotations in Central Processing, PACU, Same Day Surgery, Endoscopy, and follow an anesthesiologist for a day. (Spring Semester)

ALLIED HEALTH: RADIOLOGIC TECHNOLOGY (AHXR)

AHXR 101 Patient Care in Radiology 2 credits

Prerequisite: instructor's consent.
This course is designed to introduce the student to the basic concepts of the radiologic profession. Topics covered include equipment operation/manipulation, introduction into the clinical environment, and information pertaining to patient care and applicable ethical and legal considerations. Department policies and procedures are also presented so the students will have optimum resources to be successful through their training. Presented in lecture format and supported by clinical orientation. (Fall Semester)

AHXR 108N Introduction to Radiologic Physics 3 credits

Prerequisites: appropriate placement test score, a grade of "B-" or better in M 095.
This course is an introduction to the basic physics of ionizing electromagnetic radiation with specific applications to diagnostic x-ray radiography. Topics include the principles, concepts, and practices of scientific measurement, the basic principles of atomic and molecular structure, matter, work, energy, power, electricity including electrostatics, electrodynamics, and electromagnetism, the production of ionizing electromagnetic radiation, its properties, its interaction with matter, and fundamentals of radiation dosimetry. (Fall Semester)

AHXR 110 Radiographic Procedures I 2 credits

Prerequisite: instructor's consent.
This course is an introduction to the anatomy, positioning protocols, and techniques used for routine imaging of the chest, abdomen, extremities and spine. It also includes an overview of related pathology. (Fall Semester)

AHXR 111 Radiographic Procedures II 2 credits

Prerequisites: AHXR 110, instructor's consent.
This course is designed to build on the knowledge and experience gained from AHXR 110. There is a continuation of the study of anatomy, positioning protocols, and techniques used to image bony anatomy. It also presents an introduction into fluoroscopic procedures and contrast media. (Spring Semester)

AHXR 115 Radiographic Principles I 2 credits

Prerequisite: instructor's consent.
This course is an introduction to the operation of imaging equipment, with a focus on the design of an x-ray tube and x-ray production based on technical factors. It also covers image quality characteristics with film review and critique. (Fall Semester)

AHXR 116 Radiographic Principles II 2 credits

Prerequisites: AHXR 115, instructor's consent.
This course is a continuation of AHXR 115 in learning about imaging equipment operation. It focuses on the physics and function of tomographic, fluoroscopic and mobile x-ray units. Introduction to conventional versus digital imaging equipment is also presented. (Spring Semester)

AHXR 195 Radiographic Clinical: I 4 credits

Prerequisite: instructor's consent.
This first clinical course provides orientation to the imaging department, with concentration on department dynamics and workflow. Students have an opportunity to apply what they have learned in the classroom as they rotate through pre-assigned areas. Roles progress from observational to more hands-on as skills increase. (Fall Semester)

AHXR 195 Radiographic Clinical: II 5 credits

Prerequisites: AHXR 195-Radiographic Clinical: I, instructor's consent.
This second clinical course gives students the opportunity to apply and practice material learned in lecture courses. Experience includes assisting the radiologist during fluoroscopy procedures, supporting surgeons through imaging in the operation room, as well as refining techniques and positioning of all protocols covered in the AHXR 110 and AHXR 111. (Spring Semester)

AHXR 210 Radiographic Procedures III 2 credits

Prerequisite: AHXR 110.
This course is designed to prepare students for observation and supervised participation in correlative modalities within the Imaging department. Material includes circulatory and nervous system anatomy and physiology pertinent to the additional modalities, as well as the basic concepts of image production and evaluation in CT, MRI, ultrasound, nuclear medicine, mammography, interventional radiography and the cardiac lab. (Fall Semester)

AHXR 211 Radiographic Procedures IV 2 credits

Prerequisites: AHXR 115, AHXR 116.
This course provides the student with an in-depth study of pathologic conditions pertaining to radiology in lecture format. Lessons include pathology related to each general bone grouping, a dedicated look at pediatric-specific pathology, and a review of specialized modalities best suited for analysis of each disease type. (Spring Semester)

AHXR 225 Radiobiology/Radiation Protection 2 credits

Prerequisite: AHXR 116.
This course provides a comprehensive background on the interaction of x-radiation with matter, including biological effects at the molecular, cellular and organ system levels. Students are taught radiation protection to ensure safe use of x-rays during diagnostic imaging procedures, along with radiation quantities and units, monitoring methods, and regulatory limits for exposure. (Fall Semester)

AHXR 270 Radiographic Registry Review 2 credits

Prerequisites: AHXR 210, AHXR 225, AHXR 295-Radiographic Clinical: IV.
This course is a comprehensive review of all program material in preparation for the national registry exam for radiologic technology, including anatomy and positioning, patient care, principles and equipment physics, and radiation protection. Format consists of review assignments, computerized review material, and "mock" registry style exams followed with class evaluation and discussion. A majority of this course is also designated for self-study. (Spring Semester)

AHXR 295 Radiographic Clinical: III 8 credits

Prerequisite: AHXR 195-Radiographic Clinical: II.
This course rotates students through various pre-assigned shifts and clinical sites. Experience is gained by performing exams under the supervision of staff technologists during early morning, midday, late evening, and weekend shifts. Sites are multiple and varied providing the students with diversity in patient conditions and types of exams. (Summer Semester)

AHXR 295 Radiographic Clinical: IV 8 credits

Prerequisite: AHXR 295-Radiographic Clinical: III.
The fourth semester clinical is designed to complement AHXR 210 - Radiographic Procedures III with rotation of students through the modalities studied in lecture. Initially students observe and receive instruction, then gradually begin to participate in the performance of exams under the direct supervision of staff technologists. When not assigned to these specialized modalities, students continue to perform exams in the diagnostic imaging area and other clinical rotations with limited supervision and increased independence. (Fall Semester)

AHXR 295 Radiographic Clinical: V 8 credits

Prerequisite: AHXR 295-Radiographic Clinical: IV.
This final clinical course provides students the opportunity to perform independently as a technologist with support available from a staff technologist or the clinical instructor at all times. Rotations continue to include the specialized modalities, with hands-on participation in preparation for possible specialization and future advanced training. (Spring Semester)

ANIMAL SCIENCE (ANSC)

ANSC 100 Introduction to Animal Science 3 credits

This course covers basic principles of animal genetics, nutrition, live animal evaluation, reproduction, and their application to the production of beef and dairy cattle, sheep, swine, horses, and poultry. (Fall Semester)

ANSC 222 Livestock in Sustainable Systems 3 credits

Prerequisite: ANSC 100.
This course provides an introduction to the integration of livestock into a farming system. Topics covered include animal selection, nutrition and feeding, reproduction, herd health, and system management, with an emphasis on small-scale production. Ruminants, poultry and other livestock common in Montana will be discussed. (Fall Semester)

ANTHROPOLOGY (ANTY)

ANTY 101A Anthropology and the Human Experience 3 credits

A course designed to introduce the student to the concepts and terms used in the study of man as a cultural and physical being. It addresses the basic divisions of anthropology-physical and cultural anthropology, including ethnology, linguistics and prehistoric archaeology. (Fall Semester)

ANTY 210 Introduction to Physical Anthropology 3 credits

This course will cover introductory principles of human evolution and primate studies, human variation, hominid paleontology, and related contemporary issues in physical anthropology (i.e., disease and human adaptations, applied science in forensics, etc.). (Intermittently)

ANTY 220G Culture and Society 3 credits

Prerequisite: ANTY 101 is advised.
An introduction to social and cultural anthropology emphasizing key concepts and the comparison of distinctive cultures, social, economic, and political systems, language, religions, esthetics and cultural change. The study of archaeology, ethnology and linguistics will be introduced. (Spring Semester)

ANTY 236 Anthropology of Comparative Religion 3 credits

This course takes an anthropological approach to comparative religion. Areas of study will include Western and non-Western cultures. Focus will be on how each culture conceptualizes the unknown, interacts with and explains the spirit world, perceives power beyond human interaction and how different belief systems influence ideologies. Topics include: the occult, folklore/myths, ritual, witchcraft, nature, religions, ceremonial drug use, concepts of evil, purity, the sacred. (Intermittently)

ANTY 250 Introduction to Archaeology 3 credits

This course explores how and what archaeologists do toward reconstructing, explaining, and understanding cultures from the past (primarily pre-historical, some historical); covers methodology/techniques, terms and theories commonly utilized and applied to interpretation of human antiquity. (Intermittently)

ART (ART)

ART 144 see GDSN 250
ART 148 see GDSN 148
ART 149 see GDSN 200
ART 153 see GDSN 149
ART 247 see GDSN 247
ART 248 see GDSN 248
ART 249 see GDSN 249
ART 253 see GDSN 253
ART 267 see GDSN 267
ART 268 see GDSN 268
ART 274 see GDSN 274

ART: ART HISTORY (ARTH)

ARTH 200FGH Art of World Civilization I 3 credits

This class is a survey of the history of painting, architecture, sculpture, and other arts of Western Civilization – Ancient to Middle Ages. (Fall Semester)

ARTH 201FGH Art of World Civilization II 3 credits

This class is a survey of the history of painting, architecture, sculpture, and other arts of Western Civilization – Renaissance to Modern. (Spring Semester)

ARTH 225FG Art and Architecture of Venice 3 credits

Corequisites: ARTH 226, ARTH 227.
This course examines the art and architecture of Italy. Students will explore the works of the artists and architects of Italy with specific attention given to Venice from the 4th century onward. The class will consist of a series of excursions to historic sites, important architectural structures, and museums. Emphasis will be on the recognition of the unique character that is found in the Italian style. (Intermittently)

ARTH 226 History and Culture of Venice 3 credits

Corequisites: ARTH 225, ARTH 227.
This course examines the evolution of both the physical and cultural aspects of Venice, Italy. This course begins with an exploration of the geography of the islands that comprise the city and the lagoon that surrounds it. Visiting historic sites will allow students first-hand insights into the story of Venice. Most of the lectures will be conducted outside of the classroom. Students will study the history of Venice from 400 BCE to the present with an emphasis on the evolution of cultural and technological elements of modern Venetian life. (Intermittently)

ARTH 227FG History of Theatre in Venice 3 credits

Corequisites: ARTH 225, ARTH 226.
This course is a study of Italian theatrical history as it relates to Venice and the surrounding area. It will trace drama from its origins in Greek Dionysian religious festivals and consequent usurpation by the Romans through the development of the very specifically Italian forms, *commedia del arte* and grand opera. The location and timing of this course will provide students with a unique, first-hand experience in Italian theatrical culture. Ruins of the ancient Roman amphitheatre at Concordia Sagittaria and the exquisitely preserved Teatro Olimpico in Vicenza, designed by Andrea Palladio, the oldest extant indoor theatre in the world, with its lovingly maintained original scenery in forced perspective from its initial performance of *Oedipus Rex* in 1584, will give students physical contact with historical theatrical practices. And access to La Fenice, the recently renovated Venetian opera house originally completed in 1792, as well as performances there, offers the opportunity to expose students to an art form that has uniquely Italian origins. Also, the dates of the course encompass the traditional Italian pre-Lenten celebration of *carnevale* when visitors and residents alike don elaborate and historically authentic costumes and masks, when squares and alleys are filled with street performers of all stripes, including *commedia del arte* troupes performing works by the masters of 16th century comedy on rude stages with no amplification and historically accurate costumes and props, culminating in an elaborately staged pageant, all of which will immerse the students in a three dimensional world of theatre that no solely academic curriculum could hope to provide. (Spring Semester)

ARTH 228 FGH History of Early Italian Renaissance 3 credits

This course aims to introduce students to the development of style and meaning in Italian 14th century art. Painting, sculpture and architecture will be the main disciplines explored. (Spring Semester)

ARTH 229 FGH History: Italian Renaissance II 3 credits

This course aims to introduce students to the development of style and meaning in Italian 16th century art. Painting, sculpture and architecture will be the main disciplines explored. (Fall Semester)

ART: JEWELRY (ARTJ)

ARTJ 100 Introduction to Jewelry I 1 credit

Learn to create jewelry without soldering or stone setting skills. This introductory short course teaches basic jewelry fabrication techniques including sawing, piercing, filing, polishing, texturing, and forming metal. Cold connections, bead stringing and wire working will also be covered. This course may be repeated for a total of two credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ARTJ 101 Introduction to Jewelry II 1 credit

Prerequisite: ARTJ 100.
A continuation of ARTJ 100. This course may be repeated for a total of two credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ARTJ 150 Casting for 3D Jewelry Design I 1 credit

This course is a basic class designed to give the student a working knowledge of wax casting processes. The class will focus on spruing, investing, vacuum, and centrifugal casting and final clean-up of cast pieces. Students must have carved models casting ready. Carving waxes will not be part of the curriculum. (Fall Semester)

ARTJ 170 Enameling for Jewelry 3 credits

Prerequisite: ARTJ 210 (may be taken concurrently) or instructor's consent.
This course begins with instruction on application of basic enamel/counter enamel to copper. Students will then explore a variety of enameling techniques including, but not limited to, sgraffito, we packing, foils, painting, bas taille, champleve, and plique a jour, as they apply to jewelry. (Intermittently)

ARTJ 210F Jewelry and Metalsmithing I 3 credits

Students learn the use of basic tools and equipment. Primary projects include riveting metals together, silver soldering, and setting of non-faceted stones. Students are introduced to precious metals. (Spring Semester)

ARTJ 211F Jewelry and Metalsmithing II 3 credits

Prerequisite: ARTJ 210.
Students are introduced to casting, setting of faceted stones, and lapidary techniques. (Fall and Spring Semesters)

ARTJ 212F Jewelry and Metalsmithing III 3 credits

Prerequisites: ARTJ 210, ARTJ 211.
This course combines skills developed in all advanced jewelry classes and focuses on the use of gold. (Fall and Spring Semesters)

ARTJ 213 Jewelry and Metalsmithing IV 3 credits

Perequisites: ARTJ 210, ARTJ 211, ARTJ 212.
This course is for advanced students who will refine bench skills in preparation to become a professional goldsmith. (Intermittently)

ARTJ 220 Forging and Smithing I 3 credits

Corequisite: ARTJ 210.
Forging and smithing are ancient hammer and anvil based techniques that take advantage of the plastic qualities of metal. This course concentrates on hammer formed jewelry items utilizing non-ferrous metals such as copper, brass, silver, and gold. The course will introduce the student to the following topics: forging and raising techniques, hammers, anvils, forming stakes, tool maintenance. (Fall Semester)

ARTJ 221 Forging and Smithing II 3 credits

Prerequisite: ARTJ 220.
A course designed to explore the use of the hydraulic press in jewelry and vessel construction. Emphasis will be in die making involved in the processes. (Fall Semester)

ARTJ 223 Forging and Smithing III 3 credits

Prerequisite: ARTJ 221.
Third course in the series is a mix of more complex die making for use with the hydraulic press and hand forging of hollowware and jewelry pieces. (Fall Semester)

ARTJ 231 3D Jewelry Design and Modeling I 4 credits

A jewelry foundational course designed to teach the student how to design in a 3D CAD/CAM software environment and to further take those designs and create finished wax models on prototyping CNC mills. Manufacturing issues and techniques that will be found in a production setting will be explored. (Fall Semester)

ARTJ 232 3D Jewelry Design and Modeling II 4 credits

Prerequisite: ARTJ 231.
An advanced jewelry course designed to continue teaching the student how to design in a 3D CAD/CAM software environment and to further take those designs and create finished wax models on prototyping CNC mills. Manufacturing issues and techniques that will be found in a production setting will be explored. (Spring Semester)

ARTJ 233 3D Jewelry Design and Modeling III 4 credits

Prerequisite: ARTJ 232.
This upper level jewelry course is designed to further the education of students who have completed the first and second semester of the CAD/CAM programs. The class will focus on more complex design and milling projects including making galleries, sculpting tools, two and three sided projects, two-color metal projects, and design and milling of metal molds. (Fall Semester)

ARTJ 234 3D Jewelry Design and Modeling IV 4 credits

Prerequisite: ARTJ 233.
This advanced CAD/CAM jewelry course is designed to expand skills acquired in the first three semesters of the jewelry CAD/CAM programs. The class will focus on the completion of complex custom designs from inception to ready-for-market pieces. Additionally, students will integrate the preparation of portfolio, marketing, and human relations skills in a simulated jewelry business environment. (Spring Semester)

ARTJ 240 Jewelry Design and Rendering I 3 credits

Prerequisite: ARTJ 210.
This course provides a complete study on recognizing and visualizing concepts from drawing and design fundamentals to crafting metals. Students learn to create and construct from their own ideas. (Spring Semester)

ARTJ 241 Jewelry Design and Rendering II 3 credits

Prerequisite: ARTJ 240.
A jewelry foundational course designed to teach the student how to apply design and rendering skills and concepts learned in ARTJ 240 through the Jewelspace CAD/CAM Software Program. Jewelspace is compatible with CAC Mill or rapid-protyping machines. (Intermittently)

ARTJ 250 Wax Modeling and Casting I 3 credits

An innovative course in which students learn the process of designing wax models and reproducing those models by vacuum casting. This allows students to create individual pieces of custom designed jewelry. Procedures for casting organic and inorganic materials will also be covered. (Intermittently)

ARTJ 251 Wax Modeling and Casting II 3 credits

Prerequisite: ARTJ 250.
A continuation of ARTJ 250. (Intermittently)

ARTJ 252 Wax Modeling and Casting III 3 credits

Prerequisites: ARTJ 250, ARTJ 251.
A continuation of ARTJ 251. (Intermittently)

ARTJ 260 Stone Setting I 3 credits

Prerequisite: instructor's consent.
Students build basic stone setting skills by learning tool assembly and shaping, and how to set stones in a round, oval and pear-marquis head setting. (Spring Semester)

ARTJ 261 Stone Setting II 3 credits

Prerequisite: instructor's consent.
Students build stone setting skills by completing head settings and assembling tools for channel, flush, pave' and gypsy settings. (Fall Semester)

ARTJ 270 Surface Embellishments I 3 credits

Prerequisite: ARTJ 210.
This course concentrates on textural and chromatic surface treatments for all non-ferrous metals including silver and gold. Included among the topics covered will be reticulation, acid-etching, enameling, fusing, hammer and punch treatments, patination, roller printing, and media blasting among others. These are all vital techniques which are, due to their proliferation and technical nature, beyond the scope of basic jewelry classes. (Fall Semester)

ARTJ 271 Surface Embellishments II 3 credits

Prerequisite: ARTJ 270.
This course concentrates on an exploration of the following four surface treatments: mokume gane, gold granulation, keum boo, and cloisonné enameling. Students will make four pieces of jewelry, each incorporating one of the four different techniques. (Spring Semester)

ARTJ 280 Jewelry Repair I 3 credits

Prerequisites: ARTJ 210, ARTJ 211.
A comprehensive course teaching students the skills necessary for basic jewelry repair. Students are expected to identify various precious metals as well as cleaning, refurbishing and polishing jewelry. In addition, students learn to size rings, repair broken jewelry and replace stones in damaged pieces. Specifics include: precious metal terminology, cleaning and polishing for repair, soldering techniques for heads and shanks, ring sizing and reshanks, hinge and catch repair, broken chains, diamond removal and tightening, prong work and re-tipping, estimating price quotes. (Intermittently)

ARTJ 281 Jewelry Repair II 3 credits

Prerequisites: ARTJ 210, ARTJ 211, ARTJ 212, ARTJ 280.
Advanced repair problems in karat golds and sterling silver. (Intermittently)

ARTJ 298 Internship 3 credits

Prerequisite: completion of 30 semester credits with a grade point average of 2.0 or better.
Supervised training in goldsmithing provides on-the-job experience in the retail field. Students work in and explore the diverse nature of the jewelry trade, including different practices and tools to gain professional experience. Often, students are able to network, opening opportunities to gain viable exposure and meet prospective employers. (Intermittently)

ART: VISUAL ARTS (ARTZ)

ARTZ 105 F Visual Language-Drawing 3 credits

A presentation to art students with varying degrees of talent and exposures to instruction designed to help each student develop his or her own unique style. Considerable emphasis is placed upon the perception of the draftsperson and problems arising from the representation of three- dimensional objects on two-dimensional planes. Exercises using a variety of media and papers will occupy a great portion of this course. Class problems and assignments are planned to meet the individual needs of all students. Uniformity is not the aim. The major aim is the exposure to, and subsequent assimilation of, basic drawing "tools." (Fall Semester)

ARTZ 106F Visual Language-2-D Foundations 3 credits

A foundational course designed to present basic concepts. This course studies organization, structure, and composition of form through the use of basic design elements, such as line, shape, and value, and emphasizes design development, which is related to two-dimensional art. (Fall Semester)

ARTZ 108F Visual Language-3-D Foundations 3 credits

Prerequisite: ARTZ 106.
This course is a continuation of ARTZ 106. A foundational course designed to present basic concepts, studying organization, structure and composition of forms through the use of basic design elements. Emphasis is on three- dimensionality. (Spring Semester)

ARTZ 130 Introduction to Ceramics 1 credit

This introductory short course is designed for students interested in learning the fundamentals of wheel throwing and trimming clay, as well as glazing pottery. The course is designed for students who are not sure they can commit to a full semester course. This course may be repeated for a total of two credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ARTZ 193 Travel Journaling around Italy 3 credits

This course will explore the intense and magical process of art journaling while in Italy. Students will record their experiences in their own words, including thoughts, revelations, insights, and daily experiences. Students will develop techniques of transparent watercolor as they complete an illustrated journal using those techniques combined with collage, text, etc. For students without an art background, basic drawing skills will be addressed. (Spring Semester)

ARTZ 211 Drawing I 3 credits

Prerequisite: ARTZ 105.
This is a course designed for the more advanced student. It is expected that prospective students will understand and be capable of demonstrating basic techniques and applications of media. The course is committed to the drawing of the human figure. The first sessions are dedicated to the physiology of the body, the skeletal structure first and then the muscular organization. It is a course aimed at encouraging the student to develop his or her own way of assimilating previous drafting knowledge with the intricacies of the human form. This course may be repeated for a total of nine credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ARTZ 212 Drawing Studio: Personal Style 3 credits

Prerequisite: ARTZ 105.
This course is aimed at those students wishing to pursue drawing beyond the basic level. It is aimed at students with varying degrees of talent who have successfully completed a beginning drawing program. Exercises involving a broader variety of media, their application, and effects will be given emphasis. Class problems and assignments will have enough flexibility to meet the individual needs of all students. Uniformity is not the aim. The major aim of this course is to encourage the development of each student's unique approach to drawing – a personal style. This course may be repeated for a total of nine credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Spring Semester)

ARTZ 221F Painting I 3 credits

An elementary painting course which seeks to acquaint students with the basic tools of the painter. The major focus will be on technique and materials. Each assignment is tailored to both satisfy the need for individual expression and to present a vehicle for the practice of new techniques. (Fall Semester)

ARTZ 222 Painting Studio: Composition 3 credits

Prerequisite: ARTZ 221.
This course is a continuation of ART 221 where the basic tools of the painter are now focused more on composition and color experimentation. It is expected that the student will exercise more personal preference and choice in both subject matter and expression. This course may be repeated for a total of nine credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Spring Semester)

ARTZ 222 Painting Studio: Oil 2 credits

A continuation of study for the aspiring painter. In addition to the time for practical experience with brush at the easel, there are periods for open discussion, lecture sharing and critique. The focus of this class is help and direction for the individual student in developing a unique and personal expression. This course may be repeated for a total of six credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ARTZ 222 Painting Studio: Portrait 2 credits

This course is designed for both beginning and more advanced students to develop the skills necessary to complete an oil portrait of a live model. Progressing from the large and less complicated structures of the human head, neck, and torso to the finer and more complex structures, the student will learn the significant topographical anatomy and employ the concepts of composition, design, perspective, color, light and shadow, character and narrative to establish a "likeness." Each student will be encouraged to develop his or her own style. This course may be repeated for a total of six credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ARTZ 224F Watercolor I 3 credits

A study of the history, materials, techniques and presentation of transparent watercolor. A variety of subject matter considered. Summer classes will be conducted "en plein air" (outdoors) weather permitting. (Fall and Spring Semesters)

ARTZ 225 Watercolor Studio: Transparent 3 credits

Prerequisite: ARTZ 224 or instructor's consent.
A study of the history, materials, techniques, and presentation of transparent watercolor with a variety of subject matter considered. An in-depth continuation of ARTZ 224. This course may be repeated for a total of nine credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ARTZ 226 Oil Painting I 2 credits

Starting with a brief history of painting tradition, the study will consider modern materials, methods, and styles. Health and safety concerns will be discussed, and materials and supplies will be evaluated for quality and suitability to each individual's interest. Styles and methods will be demonstrated. Three-fourths of the class time will be devoted to hands-on experience as each student experiments with studio procedure. The emphasis in this class is providing the novice with the opportunity to explore the vast potential for expression this medium offers. Painting is a skill that requires practice. Class size is kept low in order to provide as much personal attention as possible. (Fall and Spring Semesters)

ARTZ 231F Ceramics I 3 credits

This is an introductory ceramics course which will include the history, development, and aesthetics of ceramic vessels and sculpture. Students will learn basic technical aspects of building clay, working with glazes, and the firing of ceramic objects. Emphasis will be placed on problem solving and the development of ideas. (All Semesters)

ARTZ 232 Ceramics Studio: Personal Techniques 3 credits

Prerequisite: ARTZ 231 or instructor's consent.
This course encourages students to develop personal techniques in clay and the development of a portfolio of work. This course may be repeated for a total of nine credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (All Semesters)

ARTZ 232 Ceramics Studio: Tile Making 3 credits

This course is a tile making class with emphasis on the various techniques used to produce and install tile murals, as well as an exploration of a variety of historical and contemporary techniques used to create tile. This course may be repeated for a total of nine credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Spring Semester)

ARTZ 232 Ceramics Studio: Tools and Techniques 3 credits

This course is a comprehensive introduction to sculptural ceramic processes and equipment. This course may be repeated for a total of nine credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall Semester)

ARTZ 232 Ceramics Studio: Wheel Throwing 3 credits

This course is designed for all levels of students interested in developing pottery throwing skills including wheel throwing, trimming clay and glazing techniques. This course may be repeated for a total of nine credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (All Semesters)

ARTZ 252 Sculpture Studio: CNC Fabrication 3 credits

Prerequisites: DDSN 114, WLDG 145.
This course is a lecture/lab that continues the use of CNC systems and their operating characteristics. Students will learn how to design, lay out and produce a metal art project by employing the PlasmaCAM system with integrated welding and metal process techniques. Students are encouraged to incorporate both metal and wood into their projects and to add lighting, if appropriate. This course may be repeated for a total of six credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Spring Semester)

ARTZ 252 Sculpture Studio: Metal Forging 3 credits

Prerequisites: DDSN 114, WLDG 145.
Students will use welding processes and metal forming techniques applied toward concepts of art to produce theme driven artistic functional or sculptural projects. Basic skill development in hand-forging steel, forge welding, scroll-forming, shaping, and joinery utilizing hammers, anvils, and gas forges. Emphasis on techniques and processes to demonstrate versatility and skill. Students are encouraged to incorporate both metal and wood into their projects and to add lighting, if appropriate. This course may be repeated for a total of six credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Spring Semester)

ARTZ 271 Printmaking I 3 credits

Prerequisite: ARTZ 105.
An introductory course in the art and technique of Intaglio and collagraph. Basic plate preparation, experimentation with a variety of grounds and tones, and the use of the press will be covered. (Fall and Spring Semesters)

ARTZ 272 Printmaking Studio: Etching 3 credits

Prerequisite: ARTZ 271.
An extension of ARTZ 271 where more advanced techniques are covered. Further experimentation with papers, inks and multiple plates. This course may be repeated for a total of nine credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ASTRONOMY (ASTR)

ASTR 110 N Introduction to Astronomy 3 credits

An introduction to the history of astronomy, tools of the astronomer, the solar system, stellar bodies and phenomena, and the origin and evolution of the universe. (Fall Semester)

AVIATION FLIGHT TRAINING (AVFT)

AVFT 131 Private Pilot Ground School 3 credits

This lecture course serves as a preparation for the Federal Aviation Administration (FAA) Private Pilot written examination for fixed and rotary wing aircraft. Course content includes pertinent FAA regulations, aviation weather, radio communications, navigation, aerodynamics, flight instruments, flight physiology, emergency procedures, and flight safety. To successfully complete this course, the student must pass the FAA Private Pilot written examination. Aircraft rental and flight instruction are not included in this course. Students planning to complete their private pilot flight training as well should enroll in either AVFT 132 (fixed wing) or AVFT 133 (rotary wing). (All Semesters)

AVFT 132 Private Pilot Flight Training (Fixed Wing) 3 credits

Prerequisite: instructor's consent.
Corequisite: AVFT 131 or successful completion of FAA Private Pilot written examination, and FAA Third Class Medical Certificate.
This laboratory course consists of flight training in fixed wing aircraft in preparation for the Federal Aviation Administration (FAA) Private Pilot flight test for fixed wing aircraft. Course content includes all skill elements and flight time and distribution requirements for the FAA flight testing. To successfully complete this course, the student must pass the FAA Private Pilot flight examination. The laboratory fee for this course is periodically adjusted according to flight training costs. Students requiring additional instructional time and/or flight time will be responsible on an individual basis for such additional costs. Flight training is conducted at Red Eagle Aviation at Kalispell City airport on a schedule arranged with individual students. (All Semesters)

AVFT 133 Private Pilot Flight Training (Rotary Wing) 3 credits

Prerequisite: instructor's consent.
Corequisite: AVFT 131 or successful completion of FAA Private Pilot written examination, and FAA Third Class Medical Certificate.
This laboratory course consists of flight training in rotary wing aircraft (helicopters) in preparation for the Federal Aviation Administration (FAA) Private Pilot flight test for rotary wing aircraft. Course content includes all skill elements and flight time and distribution requirements for the FAA flight test for the FAA Private Pilot license, including aircraft rental, flight instruction, and FAA flight testing. To successfully complete this course, the student must pass the FAA Private Pilot flight examination. The laboratory fee for this course is periodically adjusted according to flight training costs. Students requiring additional instructional time and/or flight time will be responsible on an individual basis for such additional costs. Flight training is conducted at Red Eagle Aviation at Kalispell City airport on a schedule arranged with individual students.(All Semesters)

AVFT 253 Instrumental Pilot: Fixed Wing 5 credits

Prerequisites: FAA private license and instructor's consent.
This course serves as a preparation for the Federal Aviation Administration (FAA) Instrument Pilot written and flight examinations for the FAA Instrument Pilot rating - fixed wing. Course content includes a detailed study of pertinent FAA regulations, procedures, and publications necessary for operating a fixed-wing aircraft under Instrument Flight Rules (IFR) in the U.S. national airspace system. Terminal and enroute procedures are studied in detail. To successfully complete this course, the student must pass both the FAA written examination and flight test for the FAA Instrument Pilot rating – fixed wing. (All Semesters)

AVFT 254 Instrument Pilot: Rotary Wing 5 credits

Prerequisites: FAA private license and instructor's consent.
This course serves as a preparation for the Federal Aviation Administration (FAA) Instrument Pilot written and flight examinations for the FAA Instrument Pilot rating - rotary wing. Course content includes a detailed study of pertinent FAA regulations, procedures, and publications necessary for operating a rotary - wing aircraft under Instrument Flight Rules (IFR) in the U.S. national airspace system. Terminal and enroute procedures are studied in detail. To successfully complete this course, the student must pass both the FAA written examination and flight test for the FAA Instrument Pilot rating - rotary wing. (All Semesters)

AVFT 255 Commercial Pilot 3 credits

Prerequisites: private pilot license and instructor's consent.
This course serves as a preparation for the Federal Aviation Administration (FAA) Commercial Pilot written and flight examinations. Course content includes a detailed study of pertinent FAA regulations, weather, aerodynamics, performance, stability, control, weight and balance, cargo, aircraft systems, emergency procedures, and publications necessary for operating an aircraft commercially in the U.S. national airspace system. To successfully complete this course, the student must pass both the FAA written examination and flight test for the FAA Commercial Pilot license. Aircraft rental, flight instruction, written examination, and flight test are included. (Intermittently)

AVFT 256 Professional Pilot 6 credits

Prerequisites: FAA Commercial Pilot License and instructor's consent.
This course serves as a preparation for the Federal Aviation Administration (FAA) Certified Flight Instructor written and flight examinations. Course content includes a detailed study of pertinent FAA regulations, weather, aerodynamics, performance, stability, control, weight and balance, cargo, aircraft systems, emergency procedures, and publications necessary for obtaining a Certified Flight Instructor rating. To successfully complete this course, the student must pass two FAA written examinations and a flight test. Aircraft rental, flight instruction, written examinations, and flight tests are included. (Intermittently)

BUSINESS ADMINISTRATION (BADM)

BADM 276 Business Internship II 3 credits

Prerequisites: a grade of "C" or better in BGEN 298, consent of internship coordinator and advisor.
A continuation of BGEN 298. Students design and complete a project developed in cooperation with their internship employer. Interns prepare a portfolio to document their 150-hour internship experience. (All Semesters)

BIOCHEMISTRY (BCH)

BCH 280N Biochemistry 3 credits

Prerequisite: CHMY 221.
Corequisite: CHMY 223.
This course involves the study of cell organization; carbohydrate and lipid structure; protein and nucleic acid structure; enzyme kinetics; energetic; major metabolic pathways for carbohydrates, lipids, and amino acids; photosynthesis; regulation of gene function. (Spring Semester)

BCH 281L Biochemistry Lab 2 credits

Prerequisite: CHMY 221.
Corequisite: BCH 280.
This laboratory course is designed to be taken concurrently with BCH 280 and is a project-based course that models biochemistry research. Course involves purification of enzyme from natural sources utilizing high-speed centrifugation, IEX and affinity chromatography; characterization of enzyme by gel electrophoresis, Bradford assay, and specific substrate assay; analysis of enzyme function by kinetic study; and structural study of enzyme by liquid chromatography- electrospray ionization mass spectrometry. (Spring Semester)

BUSINESS: FINANCE (BFIN)

BFIN 205 Personal Finance 3 credits

This is an introductory course in personal finance and will expose the student to the issues and importance of personal finance. This course introduces the concepts and applications of personal finance and the importance of personal finance in both business and everyday living. The focus is on explaining the process of financial planning and the logic behind it and why it is important to the potential small business person or to the individual. (Fall and Spring Semesters)

BFIN 220 Understanding Financial Statements 2 credits

Prerequisites: ACTG 101, ACTG 102 or ACTG 201, ACTG 202 or instructor's consent.
This is an introductory course in understanding and using financial statements in the management of a small business. The course will cover property, plant/equipment, inventory, trend analysis, and a review of financial ratios that are used in a variety of tasks performed by the small business owner. (Fall and Spring Semesters)

BFIN 222 Small Business Budgeting 1 credit

Prerequisites: ACTG 101, ACTG 102 or ACTG 201, ACTG 202, BFIN 220 or instructor's consent.
This is an introductory course on budgeting for the small business. An overview of the whole field of budgeting will be covered from the perspective of the small business owner/manager. (Fall and Spring Semesters)

BFIN 224 Cash Flow Analysis 2 credits

Prerequisites: ACTG 101, ACTG 102 or ACTG 201, ACTG 202, BFIN 220 or instructor's consent.
This is an introductory course in how to analyze cash flow in a small business. A survey of cash flow and how it is used by the small business owner in decision making will be covered. (Fall and Spring Semesters)

BFIN 260 Principles of Finance 4 credits

Prerequisites: ACTG 101, ACTG 102 or ACTG 201, ECNS 201, M095.
An introductory course in finance. A survey of the whole field of finance including the financial system and financial markets. Approached from the point of view of the monetary and credit system, which supplies funds to the economy, and of the institutions which meet the demand for funds in various sectors of the economy. (Intermittently)

BUSINESS: GENERAL (BGEN)

BGEN 110 Applied Business Leadership 3 credits

This course will examine how leaders are developed. Personalities will be examined using the Myers Briggs Personality Type Indicator and how this personality contributes to team dynamics. This course will also examine different leadership styles and how the student can become a good leader. (Spring Semester)

BGEN 201 Foundations of Business Ethics 3 credits

This course is designed to apply business concepts in studying ethics. The course will help students differentiate between ethical and unethical practices in the business world. Topics covered include basic principles of ethics, social costs, justice and fairness, utilitarianism, free market and rights, ethics in the marketplace, business and external exchanges, and ethics relating to internal constituencies (employee issues). (Spring Semester)

BGEN 235 Business Law 4 credits

This course provides an introduction to law and its role in the business environment. The course will introduce the court system, litigation and arbitration, law of agency, contracts and torts, product liability, forms of domestic and international businesses and the related liabilities, employee rights, consumer protection, principles of antitrust and debtor/creditor relationships. Where appropriate, references to Montana law will be made. (Fall and Spring Semesters)

BGEN 280 Business Planning 3 credits

Prerequisite: BMGT 210, BMGT 235, or BMKT 225.
Corequisite: ACTG 101 or ACTG 201 or instructor's consent.
This course will deal with the three essential planning tools of any business, the Business Plan, the Marketing Plan, and the Advertising Plan. The course will explore the necessity of planning and how to develop mission statements, goals, objectives, and strategies. A variety of planning instruments will be examined and evaluated. Students will develop a business, marketing, and an advertising plan for a real or mythical business. (Spring Semester)

BGEN 298 Internship 3 credits

Prerequisites: completion of 30 credits with a grade point average of 2.0 or better. Submission of an internship application.
This course offers a supervised, structured learning experience at an approved business/organization. Students will receive training related to their field of study, enhance their academic learning, and gain exposure to the workplace. Students will receive assistance in developing application materials and finding worksites meeting learning and legal criteria from the Career Development Coordinator. (All Semesters)

BGEN 299 Capstone 3 credits

Prerequisites: ACTG 201, ACTG 202, BMIS 211 (or ability to work in Microsoft Office/Windows), BMGT 235, BMKT 225, ECNS 201 or ECNS 202, M 095, WRIT 122, or instructor's consent.
This course integrates various fields of business to help the student develop a unified understanding of business planning, strategy and application. In addition, the course helps to bridge the gulf between theoretical class work and the practical application of those classes to the business world. (Intermittently)

BIOLOGY: GENERAL (BIOB)

BIOB 101NL Discover Biology 4 credits

Survey of organization and complexity of living organisms, including biological macromolecules, cell structure and function, metabolism and nutrition, reproduction, development, heredity, and the diversity of living organisms and their ecological relationships. This course is designed for non-biology majors. General education credit can be earned for either BIOB 101 or BIOB 160, but not both. Laboratory work is included. (All Semesters)

BIOB 105NL Introduction to Biotechnology 3 credits

Prerequisite or corequisite: BIOB 160.
An introduction to the rapidly-expanding field of biotechnology and its applications to human and veterinary medicine, agriculture, biofuels, bioremediation, and bioinformatics. Laboratory exercises will include basic laboratory safety, measurement methods, microbial cell culture, bacterial transformation, and other core skills used in the biotechnology laboratory. Laboratory included. (Fall Semester)

BIOB 110N Plant Science 3 credits

The course introduces basic plant science principles including anatomy, physiology, growth, and the response of plants to their environment. The history, role, and importance of cultivated plants in society will be examined throughout. (Fall Semester)

BIOB 111L Plant Science Lab 1 credit

Corequisite: BIOB 110.
An introduction to field techniques and laboratory study of the major principles of plant anatomy, growth, and physiology. (Fall Semeser)

BIOB 160NL Principles of Living Systems 4 credits

An introduction to the principles of biology. Includes the chemical basis of life, the cell, metabolism, homeostasis, reproduction, development and heredity. Laboratory work included. (All Semesters)

BIOB 170N Principles of Biological Diversity 3 credits

Prerequisite: BIOB 160, advanced high school biology, or instructor's consent.
A survey of the major categories of living organisms including study of their structure, adaptations, evolution and ecology. (Spring Semester)

BIOB 171L Principles of Biological Diversity Laboratory 2 credits

Corequisite: BIOB 170.
A laboratory study of the major categories of living organisms including study of their structure, adaptations, evolution, and ecology. (Spring Semester)

BIOB 205 Methods in Biotechnology 3 credits

Prerequisite: BIOB 105.
Corequisite: BIOB 260.
An introduction to the theory and practice of biotechnology methods including recombinant DNA technology, nucleic acid and protein isolation and analysis, mammalian cell culture, and immunological methods. Laboratory included. (Spring Semester)

BIOB 256NL Intro Biol: Cells to Organisms 4 credits

Prerequisites or corequisites: CHMY 141 or higher, M 162 or STAT 216, or instructor's consent.
Introduction to the form and function of living organisms and their systems; consideration of chemical signaling included. Laboratory work includes involving inquiry-based experimentation and mathematical analysis. Suggested for biology or biochemistry majors transferring to schools requiring a more advanced or mathematically- based biology series. (Intermittently)

BIOB 258NL Intro Biol: Organism to Populations 4 credits

Prerequisites or corequisites: BIOB 160 or higher, M 162 or STAT 216, or instructor's consent.
Introduction to the diversity of organisms, their evolution and ecology. Laboratory work includes involving inquiry-based experimentation and mathematical analysis. Suggested for biology or biochemistry majors transferring to schools requiring a more advanced biology series. (Intermittently)

BIOB 260NL Cellular and Molecular Biology 5 credits

Prerequisites: BIOB 160 or equivalent, (also CHMY 123 as a prerequisite or corequisite).
An introduction to the biology of the cell, including the nature of organization of the cell, growth, basic bioenergetic and enzyme function, cell environment, membrane structure and function, the chemical and physical mechanisms of metabolism in plants and animals, and the work performed by cells. Laboratory included. (Spring Semester)

BIOB 272N Genetics and Evolution 4 credits

Prerequisite or corequisite: BIOB 160 or equivalent.
Principles and mechanisms of inheritance and evolution. Includes analysis of variability at individual and population levels, chromosomal changes, population genetics, macroevolution, speciation, extinction and molecular evolution. (Fall Semester)

BIOB 275N General Genetics 4 credits

Prerequisite: BIOB 160 or equivalent.
Principles and mechanisms of inheritance and gene expression; analysis of variability at individual and population levels; chromosomal changes and speciation. (Fall Semester)

BIOB 290 Undergraduate Research 1-3 credits

Prerequisite: instructor's consent.
Undergraduate research under the supervision of a full-time faculty member. This course may be repeated for a total of 12 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

BIOLOGY: ECOLOGY (BIOE)

BIOE 172N Introductory Ecology 3 credits

Prerequisite: BIOB 160 or equivalent or instructor's consent.
Corequisite: BIOE 173 is advised.
A study of the principles of ecology with emphasis on ecosystems; consideration of the impact of human activities on the ecosystem. (Fall Semester)

BIOE 173L Introductory Ecology Laboratory 1 credit

Prerequisite or corequisite: BIOE 172.
An introduction to field techniques and ecosystem analysis; consideration of the impact of human activities on the ecosystem. (Fall Semester)

BIOE 290 Undergraduate Research 1-3 credits

Prerequisite: instructor's consent.
Undergraduate research under the supervision of a full-time faculty member. This course may be repeated for a total of 12 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

BIOLOGY: HUMAN (BIOH)

BIOH 104N Basic Human Biology 3 credits

This course is designed for students in Allied Health programs. It familiarizes the student with the fundamental concepts in the systematic organization and functioning of the human body. Anatomical features and physiological processes of each system are studied as they contribute to the overall homeostasis of the body. (Fall and Spring Semesters)

BIOH 105L Basic Human Biology Laboratory 1 credit

Prerequisite or corequisite: BIOH 104.
This course familiarizes the student with the fundamental concepts in the anatomy and physiology of the human body. Anatomical studies include bones, muscles, brain, and heart. Physiological processes in such systems as nervous, cardiovascular, respiratory, and urinary are studied as to how they contribute to the overall homeostasis of the body. (Fall and Spring Semesters)

BIOH 201NL Human Anatomy and Physiology I 4 credits

Prerequisite: BIOB 101 or BIOB 160 or CHMY 105 or CHMY 121 or instructor's consent.
This course is an introduction to anatomical methodology and physiological mechanisms. Students become familiar with the systematic organization of the human body at both the micro- and macro-structural levels, the normal functions of each organ in a particular system, and the interrelationships between structure and function. Specifically covered in this semester are an introduction to histology and the integumentary, skeletal, nervous, muscular, and endocrine systems. Laboratory included. (Fall and Spring Semesters)

BIOH 211NL Human Anatomy and Physiology II 4 credits

Prerequisite: BIOH 201 or instructor's consent.
This is a continuation of BIOH 201. Students are presented with a systematic exposure to the structural and functional workings of the cardiovascular, lymphatic, respiratory, digestive, excretory, and reproductive systems. Laboratory included. (Fall and Spring Semesters)

BIOH 285 Human Dissection 2 credits

Prerequisites: BIOH 201, instructor's consent.
This course is an elective lab experience for those students who are interested in further anatomical studies. Course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

BIOH 290 Undergraduate Research 1-3 credits

Prerequisite: instructor's consent.
Undergraduate research under the supervision of a full-time faculty member. This course may be repeated for a total of 12 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

BIOLOGY (BIOL)

BIOL 170 Disease Processes/ Pharmacology 4 credits

Prerequisites: BIOH 104, BIOH 105 or BIOH 201; BIOH 211.
Pathophysiology (the study of disease) is a close examination of the disease process in the human body. Topics in this course include: 1) how the body's normal structure and function can be altered, 2) how the body responds to these disruptions in structure and function (i.e. cause and effect), and 3) current approaches to the treatment of these disruptions using drugs. In the emphasis of treatment, particular attention will be given to the area of pharmacology including drug categories, actions, reactions, and interactions. (Fall and Spring Semesters)

BIOLOGY: MICRO (BIOM)

BIOM 250NL Microbiology for Health Sciences 4 credits

Prerequisite: BIOB 160 or equivalent or instructor's consent.
Introduction to the causative agents, epidemiology, prevention, and treatment of infectious diseases. Laboratory included. (Fall and Spring Semesters)

BIOM 251L Microbiology for Health Sciences Lab 1 credit

Corequisites: BIOM 250, BIOM 260 are recommended.
The laboratory study of microorganisms, their characteristics and activities. (Fall and Spring Semesters)

BIOM 260N General Microbiology 3 credits

Prerequisite: BIOB 160 or equivalent or instructor's consent.
Corequisite: BIOM 261 is advised.
A survey of the morphology, physiology, and classification of bacteria and other microorganisms. Consideration of the applied aspects of microbiology. (Intermittently)

BIOM 261L General Microbiology Lab 2 credits

Corequisite: BIOM 260.
This course is an introduction to fundamental techniques for isolation, manipulation, and identification of microorganisms. Laboratory activities will relate to topics covered in BIOM 260. (Spring Semester)

BIOM 290 Undergraduate Research 1-3 credits

Prerequisite: instructor's consent.
Undergraduate research under the supervision of a full-time faculty member. This course may be repeated for a total of 12 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Intermittenlty)

BIOLOGY: ORGANISMAL (BIOO)

BIOO 105NL Introduction to Botany 3 credits

An introduction to the basic principles of botany: the structure, physiology, reproduction and economic importance with emphasis on the vascular plants. Brief survey of the major taxa. Laboratory work included. (Fall and Spring Semesters)

BIOO 115N Practical Botany 3 credits

Introduction to the principles of botany. Plants, their structure, growth and taxonomy as related to manipulation and utilization with emphasis on the identification and uses of local native plants. (Spring Semester)

BIOO 215N Field Botany 3 credits

Introduction to plant associations. The identification of plants, emphasizing the native flora of northwest Montana, with consideration of their environment. Field work may include moderate hiking. (Fall and Summer Semesters)

BIOO 235NL Rocky Mountain Flora 3 credits

Identification of native Montana flora. Includes methods of collection, preservation, and nomenclature of local flora. Laboratory included. (Spring Semester)

BIOO 262NL Introduction to Entomology 3 credits

Prerequisite: BIOB 160 or equivalent or instructor's consent.
A survey of the basic structure and ecological roles of insects. Identification of the major orders and families of insects. Laboratory work included. (Intermittently)

BIOO 290 Undergraduate Research 1-3 credits

Prerequisite: instructor's consent.
Undergraduate research under the supervision of a full-time faculty member. This course may be repeated for a total of 12 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

BUSINESS: MANAGEMENT (BMGT)

BMGT 120 Fundamentals of Risk Management and Insurance 3 credits

This course analyzes individual and business risk. It provides an understanding of the foundations, applications and selection of insurance. The fields of life insurance, health insurance, and property and liability insurance, social insurance (FICA, Medicare, Medicaid) employee benefits, and retirement benefits are studied. (Fall Semester)

BMGT 210 Small Business Entrepreneurship 3 credits

This course is a practical, down-to-earth approach to planning, organizing, and managing a small business. While based on current research, theory, and practice, the material is presented from a how-to perspective with many practical examples and applications from the business world. (Fall and Spring Semesters)

BMGT 215 Human Resource Management 3 credits

This course explores human resources in a globally competitive business environment, the legal context of employment decisions, diversity, securing human resources, developing human resources, compensation, labor management relations, and protecting and evaluating human resources. The class is designed to familiarize participants with current human resource practices and laws that apply to human resource careers regardless of their field. (Fall Semester)

BMGT 235 Management 3 credits

A comprehensive introduction to management theory, research and practice. An integration of classical and modern concepts of management practice for a solid grounding in management principles which is essential to successfully guiding today's small or large, profit or not-for-profit organizations in a rapidly changing environment. (Fall and Spring Semesters)

BMGT 237 Human Relations in Business 3 credits

Introduction to the human side of organizations and to people in the world at work. The course will examine such elements as leadership, organizational behavior, the future of organizations. Discrimination, communications, and organizational change will be covered as well. (Fall and Spring Semesters)

BMGT 245 Customer Service Management 3 credits

Prerequisite: TASK 150.
This course is designed to help manage people in customer service roles. The course will include finding and retaining quality people, the purpose of good customer service, training and supporting employees in these roles, and managing the mission statement for the business. (Intermittently)

BMGT 250 Employment and Compensation Strategies 3 credits

This course examines compensation practices and philosophies, administrative tools used to manage employee compensation, and pay structure development. Explains the major provisions of employee benefit programs including growth in benefit costs, effects of benefits management on cost and work-force quality, and regulatory constraints that affect the way employee benefits are designed and administered. (Spring Semester)

BMGT 263 Legal Issues in Human Resources 3 credits

This course introduces the student to an overview of legal issues in human resources and employment law. Topics covered include employment relationships, hiring, termination, employment discrimination, employment regulation (wage and hour, safety, workers' compensation) and employee evaluation. (Fall Semester)

BUSINESS: MANAGEMENT INFORMATION SYSTEMS (BMIS)

BMIS 211 Introduction to Business Decision Support 4 credits

Prerequisite: CAPP 106.
A project and problem solving oriented course that focuses on the implementation of spreadsheets and databases to common business problems. Other topics discussed will include operating systems and word processing.
(All Semesters)

BMIS 270 MIS Foundations for Business 3 credits

Prerequisites: BMIS 211.
Introduces the development, use, and management of computer-based information systems. (Intermittently)

BMIS 298 Internship 3 credits

Prerequisites: BMIS 270, CAPP 138, and completion of 30 credits with a GPA of 2.0 or better. Must have consent of internship coordinator and advisor.
This course offers a supervised, structured learning experience at an approved business/organization. Students will receive training related to their field of study, enhance their academic learning, and gain exposure to the workplace. Prior to placement at an internship site, students will attend an internship orientation to learn the application and internship process. (Intermittently)

BUSINESS: MARKETING (BMKT)

BMKT 130 Search Engine Marketing 3 credits

Search engine marketing is an introduction to the structure and function of search engine marketing; analysis of consumer markets and online habits; production, planning, and development of online identity; social responsibility; search engine algorithms and values; and creating the source code. (Spring Semester)

BMKT 131 Introduction to Social Media Marketing 3 credits

Prerequisite: BMKT 225.
This course will introduce students to the world of social networking as a marketing tool for any business. Students will become familiar with Facebook, Twitter, Linkedin, and other social networking venues available. Students will also explore the tools available for Web 2.0. (Spring Semester)

BMKT 132 Writing for Web Marketing 3 credits

Prerequisite: BMKT 225.
This course will introduce students to the art of writing documents for web viewing. (Spring Semester)

BMKT 225 Marketing 3 credits

An introduction to the structure and function of marketing; analysis of consumer and industrial markets; production, planning and development; distributive structure; price determination and policies; social responsibility; and a brief look at international marketing. (Fall and Spring Semesters)

BMKT 244 Retail/Distributorship 3 credits

Prerequisite: BMKT 225 or instructor's consent.
The world of retailing is constantly evolving and there is increased competition for consumers, employees, products, and resources. With the retail sector providing one out of every five jobs in today's economy, retailing is a very important part of the business world, a part every business student should comprehend and understand. In a methodical and organized fashion, this class gives the students a broad scope of the retail industry. It will explore issues that are faced by individuals at all levels of the retail organization. (Intermittently)

COMPUTER APPLICATIONS (CAPP)

CAPP 090~ Short Courses: Computer Basics 1 credit

Basic hands-on skills for non-computer users will be addressed allowing students to learn what a computer can do for them. After learning about the computer, students will have the opportunity to explore the word processing program, campus email services and internet searches. (Intermittently)

CAPP 101 Short Courses: The Internet 1 credit

Prerequisite: CAPP 106 or instructor's consent.
This course allows students to gain basic knowledge about the Internet. Topics covered will include a history of the Internet; the basics of email; how to access other computers on the Internet; retrieving files from other computer systems; the "how to" for discussion lists, news groups, and mailing lists; as well as basics about web browsers such as Netscape and Explorer. (Intermittently)

CAPP 103 Short Courses: QuickBooks Fundamentals 1 credit

This course provides a quick step-by-step introduction to the terminology, concepts and techniques used in QuickBooks Pro. It is designed for the novice and experienced computer users who want a basic understanding of the capabilities of QuickBooks Pro. (Intermittently)

CAPP 104 Short Courses: Advanced QuickBooks 1 credit

Prerequisite: CAPP 103.
A second course for QuickBooks Pro. This course covers setting up inventory, creating invoices, customizing forms, creating reports and graphs, payroll, processing payments, and using QuickBooks Pro other account. (Intermittently)

CAPP 106 Short Courses: Computer Applications 1 credit

Prerequisite: TASK 090 or instructor's consent.
An introduction to computers and their capabilities for those people with no prior experience. A straight-forward, hands-on approach to provide people with basic skills to pursue additional computer courses. Basic concepts of word processing, spreadsheets, database, and presentation software are presented. (Fall and Spring Semesters)

CAPP 108 Short Courses: MS Windows 1 credit

Prerequisite: CAPP 106 or instructor's consent.
This course provides a quick step-by-step introduction to the terminology, concepts and techniques used in the windowing environment. It is designed for the novice and experienced computer and Windows users who want a basic understanding of the capabilities of the Windows environment and the applications contained in Microsoft's Windows software package. (Intermittently)

CAPP 110 Short Courses: MS Outlook 1 credit

This course is intended to help develop the skills necessary to work with Outlook. Topics include managing contacts, using the calendar feature, managing the inbox and customizing the software to use effectively and efficiently. (Spring Semester)

CAPP 112 Short Courses: MS PowerPoint 1 credit

Prerequisite: CAPP 106 or instructor's consent.
This course provides an introduction to the processes of designing, developing and producing an information presentation with automated presentation graphics software. The student products include outlines, speaker notes, handouts, slides, and coordinated presentations from both overhead and video sources. (Fall and Spring Semesters)

CAPP 114 Short Courses: MS Word 1 credit

Prerequisite: CAPP 106 or instructor's consent.
A course covering the basics of the Microsoft Word for Windows including creating, saving, retrieving, and editing documents; line, character, and page formatting, and using the Speller/Thesaurus. (Fall and Spring Semesters)

CAPP 116 Short Courses: MS Excel 1 credit

Prerequisite: CAPP 106 or instructor's consent.
This course is intended to help develop the skills necessary to work with spreadsheets. Topics include entering and manipulating different types of data, formatting basics, using functions to analyze information, making decisions with IF functions and formulas, sorting and filtering information and creating charts, Microsoft's Excel for Windows will be used as the teaching tool. (Fall and Spring Semesters)

CAPP 118 Short Courses: MS Access 1 credit

Prerequisite: CAPP 106 or instructor's consent.
This course is intended to help develop the skills necessary to work with databases. Topics include creating tables, queries, forms, and reports. Microsoft's Access for Windows will be used as the teaching tool. (Intermittently)

CAPP 120 Introduction to Computers 3 credits

This course takes as its starting point the proposition that technology is central to the modern world as one of the primary tools impacting communication, learning, and advancement. Students will learn the driving principles behind computer systems, become familiar with influencing computer hardware, software, and network technology. Students will examine the management of information and material in word processors, spreadsheets, and databases, as well as the implication and safeguards for that information. The ethical implications of computing, such as security, privacy, patriot act, identity theft, and the social implications of information sharing will be given particular consideration. (Fall and Spring Semesters)

CAPP 131 Basic MS Office 2 credits

Prerequisite: CAPP 106 or instructor's consent.
A course designed to introduce people with little computer experience to the expanding world of computing. Beginning and intermediate concepts in word processing, database, spreadsheets, and presentation software will be explored utilizing a hands-on approach. (Fall and Spring Semesters)

CAPP 154 MS Word 3 credits

Prerequisite: CAPP 106, TASK 090, or instructor's consent.
This is a course in word processing using Microsoft Word or the current industry standard. The course includes creating, retrieving, and editing documents, as well as an introduction to some advanced features such as mail merge, graphics, WordArt, macros, and tables. (Fall Semester)

CAPP 156 MS Excel 3 credits

Prerequisite: CAPP 106, M 108, or instructor's consent.
A comprehensive look at the features and processing capabilities of spreadsheet software. Topics include developing and editing spreadsheets, creating efficient formulas, apply proper formatting, use of what if functions and tools, macro development, and spreadsheet management. (Spring Semester)

CAPP 158 MS Access 3 credits

Prerequisite: CAPP 106 or instructor's consent.
This course is a comprehensive study of relational databases using Microsoft Access. Topics include database theory, creation of tables, forms, reports, queries, and switchboards while utilizing the most recent version of Microsoft Access. (Intermittently)

CHEMICAL ADDICTION STUDIES (CAS)

CAS 140 Addiction and Diversity 1 credit
Formerly SA 140 Cultural Issues in Addiction Recovery

Addiction affects all members of society. Because of this, the substance abuse counselor must be knowledgeable of cultural, ethnic needs, and differences of the mosaic society where he or she is practicing. This course is designed to provide a working knowledge of the diversity needed for addiction counseling in a multicultural society. (Intermittently)

CAS 242 Fundamentals of Substance Abuse and Addictions 3 credits
Formerly PSYX 242 Fundamentals of Substance Abuse and Addiction

Prerequisite: PSYX 100, HTH 205, or instructor's consent.
This course is an introduction to the field of addiction counseling. It will focus on current therapeutic trends, strategies, and modalities used in the treatment of addictions. Relapse and prevention strategies, along with treatment of special populations, will also be covered. (Fall Semester)

CAS 248 Substance Abuse Counseling II 3 credits
Formerly PSYX 243 Substance Abuse Counseling II

Prerequisite: CAS 242.
The purpose of this course is to present the student with advanced knowledge in the counseling process and specifically will address substance abuse. The objective is to increase the student's knowledge of counseling strategies. (Spring Semester)

CAS 250 Assessment and Case Management Processes 2 credits
Formerly SA 221 Assessment and Evaluation Procedures of Substance Abuse

Prerequisite: CAS 242, HTH 205, or PSYX 100.
This course will introduce the student to assessment and evaluation procedures used in addiction counseling. The student will be able to understand, describe, administer, and interpret the various testing and evaluation tools used in addiction counseling. (Spring Semester)

LANGUAGES: CHINESE (CHIN)

CHIN 101GH Elementary Chinese I 5 credits

The first semester of elementary Chinese is designed with an emphasis on speaking, reading, and writing elementary Mandarin. (Intermittently)

CHIN 102 GH Elementary Chinese II 5 credits

Prerequisite: CHIN 101.
The second semester of first-year Chinese is designed to develop and build upon the skills acquired in the first semester, maintaining focus on speaking, reading, and writing. (Intermittently)

CHEMISTRY (CHMY)

CHMY 104 see CHMY 105NL

CHMY 105NL Explorations in Chemistry 4 credits
Formerly CHMY 104 Preparation for Chemistry

Prerequisite: appropriate placement test score in math or grade of "C" or better in M 065, or chemistry department consent.
An investigation of chemistry, including software and other tools, laboratory methods, and problem solving skills. Topics include the scientific method and its role in the continued development of chemistry; physical and chemical changes; chemical reactions; atoms, elements, and the periodic table; units of measure; dimensional analysis; uncertainty and propagation of error; states of matter; chemical bonding; writing and balancing chemical equations; naming chemical substances; and solving stoichiometry and limiting reactant problems. General education credit can be earned for either CHMY 105 or CHMY 121, but not both. (All Semesters)

CHMY 121NL Introduction to General Chemistry 4 credits

Prerequisite: appropriate placement test score in math or grade of "C" or better in M 090; and one semester high school chemistry with grade of "C" or better or grade of "C" or better in CHMY 105; or chemistry department consent.
First semester of an introduction to general, inorganic, organic and biological chemistry. Measurement systems, atomic structure, chemical periodicity, bonding, chemical reactions, acid-base chemistry, electrochemistry, nuclear chemistry. Laboratory included. (All Semesters)

CHMY 123NL Introduction to Organic and Biochemistry 4 credits

Prerequisite: CHMY 121 or CHMY 141 or equivalent.
An introduction into functional group organic chemistry and important biochemical structures, concepts, and processes. Covers major biological molecules including carbohydrates, lipids, proteins, and nucleic acids. Laboratory included. (Fall and Spring Semesters)

CHMY 141NL College Chemistry I 5 credits

Prerequisite: appropriate placement test score in math or grade of "C" or better in M 095; and one year of high school chemistry with grade of "C" or better or grade of "C" or better in CHMY 121; or chemistry department consent.
The first of a two-semester course sequence of the general principles of modern chemistry, intended for science majors. The course emphasizes the experimental nature of the science of chemistry and a more mathematical intensive approach, with emphasis on critical and analytical thought. Topics covered include stoichiometry, atomic structure, bonding, states of matter, and chemical reactivity. Laboratory included. (Fall and Spring Semesters)

CHMY 143NL College Chemistry II 5 credits

Prerequisite: CHMY 141.
The second of a two-semester course sequence of the general principles of modern chemistry, intended for science majors. The course emphasizes the experimental nature of the science of chemistry and a more mathematical intensive approach, with emphasis on critical and analytical thought. Topics covered include solutions, equilibria, kinetics, acids and bases, thermodynamics, electrochemistry, coordination compounds, organic and biochemical compounds. Laboratory included. (Spring Semester)

CHMY 160 Pharmacology 3 credits

Students are prepared to calculate drug dosages and learn legal aspects of pharmacology, specific terminology, specific drug regulations, classifications and therapeutic implications. Various groups of drugs are studied in detail. (Fall and Spring Semesters)

CHMY 221NL Organic Chemistry I 5 credits

Prerequisite: CHMY 143.
First semester of a one-year sequence with emphasis on fundamental concepts of structure, nomenclature, properties and reaction mechanisms of organic compounds and an introduction to biochemical molecules. Laboratory included. (Fall Semester)

CHMY 223NL Organic Chemistry II 5 credits

Prerequisite: CHMY 221.
Second semester of a one-year sequence with emphasis on fundamental concepts of structure, nomenclature, properties and reaction mechanisms of organic compounds and an introduction to biochemical molecules. Laboratory included. (Spring Semester)

CHMY 280NL Forensic Science I 4 credits

Prerequisite: M 090.
Corequisite: WRIT 101.
A presentation of the techniques, skills, and limitations of the modern crime laboratory, including ancillary services. Topics include crime scene processing, pathology, anthropology, odontology, types of physical evidence, trace evidence (glass, soil, hair, paint), impression evidence (tools, tires, shoes, bite marks, serial numbers), friction ridge examination, firearms, and questioned documents. Laboratory work included. (Fall Semester)

CHMY 282NL Forensic Science II 4 credits

Prerequisite: CHMY 280.
A presentation of the techniques, skills, and limitations of the modern crime laboratory, including ancillary services. An introduction to instrumentation, including GC, GCMS, FTIR, and electrophoresis. Topics include toxicology, controlled substances, biological fluids and stains, DNA, fire and explosion investigation, and vehicular accident reconstruction. Includes guest speakers, field trips and laboratory work. (Spring Semester)

CHMY 290 Undergraduate Research 1-3 credits

Prerequisite: instructor's consent.
Undergraduate research under the supervision of a full-time faculty member. This course may be repeated for a total of 12 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

LAW ENFORCEMENT

CJLE 109C Police Report Writing 3 credits
Formerly WRIT 109C Police Report Writing

This course will introduce students to the vocabulary and style of writing used in the criminal justice fields. Students will learn to write clear, concise and persuasive arrest reports, policy proposals, and other documents typically used in the criminal justice system. (Intermittently)

CRIMINAL JUSTICE (CJUS)

CJUS 121A Introduction to Criminal Justice 3 credits

This course introduces the student to the functions and practices of the agencies that make up the criminal justice system: police, courts, and corrections. The various stages in the criminal justice process are the focus. Ideological and organizational factors influencing decision-making throughout the criminal justice system are examined. (Intermittently)

CJUS 200 Principles of Criminal Law 3 credits

Introduction to substantive criminal law, with appropriate examples from particular crimes. Historical development of substantive criminal law and its role in society. (Fall Semester)

CJUS 220 Introduction to Corrections 3 credits

Institutional correctional systems at local, state and federal levels and community-based corrections, including probation and parole, are studied. The demographics of the prison population along with an examination of the inmate subculture and issues pertaining to special populations are also explored. (Spring Semester)

CJUS 230 Police Organization 3 credits

Covers the basic structure of law enforcement and the historical development of police departments, as applied to federal, state and municipal agencies. Examines current police practices and timely issues, such as police community relations, civil liability and ethics. (Spring Semester)

CJUS 231 Criminal Evidence and Procedure 2 credits

Corequisite: CJUS 271.
A practical approach to criminal procedure that emphasizes the relationship between law and procedure is the focus. Up-to-date analysis of U.S. Supreme Court decisions affecting criminal procedures is reviewed. (Fall Semester)

CJUS 271 Introduction to Judicial Function 1 credit

Corequisite: CJUS 231.
The structure and organization of local, state and federal court systems and the roles and responsibilities of the key figures in the trial process are explored. Various problems faced by the judiciary are also addressed. (Fall Semester)

CJUS 298 Internship 3 credits

Prerequisites: completion of 30 semester credits with a grade point average of 2.0 or better. Submission of an internship application.
This course offers a supervised, structured learning experience at an approved business/organization. Students will receive training related to their field of study, enhance their academic learning, and gain exposure to the workplace. Students will receive assistance in developing application materials and finding worksites meeting learning and legal criteria from the Career Development Coordinator. (All Semesters)

COMPUTER APPLICATIONS (CMPA)

CMPA 260 Information, Media, and Technology 3 credits

This course examines technology in our changing society and teaches students to access, evaluate, and manage information and media. Students will use digital technologies to create products to demonstrate their understanding of information and media literacy. This course will focus on creative and effective approaches to information, media, and technology. (Intermittently)

CMPA 270 Advanced Web Design with XHTML and CSS 3 credits

Prerequisite: CMPA 275.
This course focuses on teaching students advanced Web page concepts. Students are taught advanced techniques and further their experience with Web design and Dreamweaver, XHTML and CSS (Cascading Style Sheets). Focus is also placed on usability, accessibility, and Web standards. (Fall Semester)

CMPA 274 Interactive Media for the Web 3 credits

Prerequisite: CAPP 101, CAPP 108 or instructor's consent.
Using Macromedia Flash, students will create appealing, interactive, customized animations to be used in multimedia productions or Web sites. Topics include basic animation of symbols and buttons, creating and editing movie and sound clips and ActionScript programming. (Spring Semester)

CMPA 275 Web Development Tools: Dreamweaver 4 credits

The purpose of this course is to introduce students to a Web site creation and management tool that focuses on planning the Web site structure and design before creating the individual Web pages. Macromedia's Dreamweaver software package or the currently accepted industry standard software will be used. (Fall Semester)

COMMUNICATION (COMX)

COMX 100C Introduction to New Media Studies 3 credits
Formerly JRNL 100C Introduction to Mass Media

This course is a survey of mass media in society, with an emphasis on New Media and its impact on traditional media channels including newspapers, magazines, radio, television, books, movies , and recordings. The course will introduce students to writing techniques for the World Wide Web and include an examination of ethical, political, financial, and other issues that face today's mass media industry. (Fall and Spring Semesters)

COMX 111C Introduction to Public Speaking 3 credits
Formerly SP 110C Public Speaking

Preparation, presentation, and criticism of speeches. Emphasis on the development of public speaking techniques through constructive criticism. (All Semesters)

COMX 115C Introduction to Interpersonal Communication 3 credits
Formerly SP 120C Interpersonal Relations/ Communications

Study of and practice in communication skills in professional life and in daily relationships. (All Semesters)

COMX 150CF Video Communication 3 credits
Formerly SP 150C Video Communication

This course introduces video as a tool for human communication. It gives students experience in using video to design, produce, and deliver communication in publishing, advertising, entertainment, and education. Students learn to use basic computer tools and digital cameras to build works of communication applicable for television, film, and internet. (Fall and Spring Semesters)

COMX 215 Negotiations/Conflict Resolution 3 credits
Formerly SP 215 Negotiations/Conflict Resolution

This introductory course will focus on concepts, skills, and strategies for effective resolution of conflicts through negotiation. Emphasis will be placed on the application of concepts learned through the use of simulated exercises and case studies which allow students to apply, practice, and evaluate negotiation skills. (Fall and Spring Semesters)

COMX 217CF Oral Interpretation of Literature 3 credits
Formerly SP 160CF Oral Interpretation

The techniques, practice, and performance of effective oral reading will be the subject of this course. Poetry, drama, children's literature, stories, speeches, and articles will be analyzed, practiced, and performed before the class. (Fall and Spring Semesters)

CREATIVE WRITING (CRWR)

CRWR 110F Beginning Fiction 3 credits
Formerly ENGL 251F Creative Writing in Fiction

Prerequisite: WRIT 101 or instructor's consent.
This introductory writers' workshop focuses on the critique and revision of students' short fiction. Contemporary literary short stories, short shorts and parables will be emphasized. Students will study fiction elements and techniques, including character sketches, beginnings, dialogue, point of view, plot, authorial distance, significant detail, scene, characterization, and endings. (Fall and Spring Semesters)

CRWR 111F Beginning Poetry 3 credits
Formerly ENGL 252F Creative Writing in Poetry

The reading and writing of poetry with emphasis on the techniques of imaginative writing and critical appraisal. (All Semesters)

CRWR 210 Introduction Fiction Workshop 3 credits
Formerly ENGL 271 Creative Writing Workshop: Fiction

Prerequisite: CRWR 110 or instructor's consent.
This intermediate course focuses on critique and revision of students' short fiction or on chapters of students' novels. Students will be expected to finish three stories of literary quality. (Fall and Spring Semesters)

CRWR 211 Introduction Poetry Workshop 3 credits
Formerly ENGL 272 Creative Writing Workshop: Poetry

Prerequisite: CRWR 111 or instructor's consent.
An advanced course in the writing of poetry which will consider special problems in this area as well as refinement of the student's skill. (All Semesters)

COMPUTER SCIENCE (CS)

CS 140 Introduction to Information and Computer Science 3 credits

Prerequisite: admission into Health Information Technology program.
For students without an IT background, this course provides a basic overview of computer architecture; data organization, representation and structure; structure of programming languages; networking and data communication. Includes basic terminology of computing. (Internet course only.) (All Semesters)

COMPUTER SCIENCE/PROGRAMMING (CSCI)

CSCI 100 Introduction to Programming 3 credits

Prerequisite: CAPP 106 or Instructor's consent.
This course is an introduction to elementary programming techniques using Pseudo code and flowcharting. A wide range of programs will be written by the student and run on a computer. Students learn the techniques of looping, functions and subroutines, arrays, variables and data types, user input/output, file input/output, and appropriate programming practices. (Intermittently)

CSCI 104 Programming with Alice 2 credits

Explore fundamental concepts of Computer Science and object oriented programming in an environment supporting animation. This course is an opportunity to learn how to program in the context of storytelling. This class will teach you how to animate your story and get an introduction to programming at the same time. (Fall and Spring Semesters)

CSCI 111 Programming with Java I 4 credits

This is the first semester of a course in fundamental computer science concepts using the high-level, object-oriented programming language Java. Topics to be covered are arrays, searching and sorting, recursive functions, file handling, and data structures. (Fall and Spring Semesters)

CSCI 113 Programming with C++ I 4 credits

Prerequisite: one programming class.
Computer programming in the language C and C++. Topics covered are procedures, functions, control statements, arrays, pointer and address notation, character strings, structures, data files (sequential and random access), linked lists, stacks, queues, tree structures and graphics. (Spring Semester)

CSCI 121 Programming with Java II 4 credits

Prerequisite: CSCI 111.
A continuation of CSCI 111. Topics include user-defined ordinal types, multidimensional arrays, data file structures, set structures, abstract data structures via pointers (linked lists, queues and stacks), data management and applications development. (Spring Semester)

CSCI 210 Web Programming 4 credits

Prerequisite: CSCI 211.
This course uses PHP to create dynamic data-driven Web pages. The emphasis will be on fundamentals of PHP and its syntax for the purpose of linking site pages to databases for queries, manipulations, and updates. Conditional and dynamic scripting is used to execute customized responses. This course lays the foundation for immediate and advanced PHP pursuits. (Fall Semester)

CSCI 211 Client Side Programming 4 credits

This course introduces JavaScript for use in web pages. JavaScript is a popular scripting language that is widely supported in web browsers and other web tools that adds interactive functions to HTML pages. Topics covered are data types and operators, functions and events, the browser object model, form validation, cookie creation, and animation using Dynamic HTML. (Fall Semester)

CSCI 213 Web Programming Techniques: PHP II 4 credits

Prerequisite: CSCI 210.
This course addresses the intermediate and advanced features of PHP. An emphasis is placed on object-oriented design and reuse, error handling, frameworks, managing sessions, carts, testing, and performance considerations. (Spring Semester)

CSCI 232 Data Structures and Algorithms 3 credits

Prerequisites: CSCI 121, M 225.
A study of static and dynamic data structures including linked lists (queues, stacks, trees), sorting, searching, and file structures. Application of these structures to problem-solving and consideration of trade offs in choice of implementation. (Fall Semester)

CSCI 240 Databases and SQL 3 credits

Prerequisite: CAPP 106 or instructor's consent
This course focuses on the concepts of relational databases and includes tables, records and typed fields, primary and foreign keys, and database normalization, and a thorough coverage of Structured Query Language "SQL". Through a variety of exercises, the student will learn how to model a business enterprise using the entity-relationship approach to relational database design. (Intermittently)

CSCI 290 Undergraduate Research 1-3 credits

Prerequisite: instructor's consent.
Undergraduate research under the supervision of a full-time faculty member. This course may be repeated for a total of 12 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

CSCI 298 Internship 3 credits

Prerequisites: completion of 30 credits with a grade point average of 2.0 or higher, including at least six credits in the student's major area of study. Admission only with consent of internship coordinator and advisor.
This course offers a supervised, structured learning experience at an approved business/organization. Students will receive training related to their field of study, enhance their academic learning and gain exposure to the workplace. Prior to placement at an internship site, students will attend an internship orientation to learn the application and internship process. (Fall and Spring Semesters)

CONSTRUCTION TRADES (CSTN)

CSTN 104 Short Course: Woodworking and Design Construction 1 credit

This course will introduce students to the fundamentals of woodworking. Students complete a project designed to take their woodworking skills to the next level. Specific techniques emphasized will vary by individual project. The course includes practice in shop and tool safety and the tools necessary to complete the project. This course may be repeated for a total of three credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (All Semesters)

CSTN 125 Basic Cabinetry and Furniture Making 3 credits

This course will introduce students to the fundamentals of woodworking. An instructor assigned project will be completed by all class members. The course includes practice in shop and tool safety, bench woodwork, fitting, and basic machine operation and techniques for table saw, jointer, planer, band saw, drill press, router, sanding machines, and nailers. The instruction includes the use and care of hand tools, common wood joinery, gluing and clamping, survey of furniture woods and basic finishing techniques. (Fall and Spring Semesters)

CSTN 126 Intermediate Cabinetry 4 credits

Prerequisites: CSTN 125 or instructor's consent.
This course provides the student the opportunity to select, design, and construct a wood working project associated with cabinetry. Lectures include continuing shop and machine safety, design considerations, drawing, layout, and joinery. Shop practice in preparing stock, machining operations typical of carcase construction, fitting and assembly. Detailing and finishing techniques will also be covered. (Fall and Spring Semesters)

CSTN 127 Intermediate Furniture Making 4 credits

Prerequisites: CSTN 125 or instructor's consent.
This course provides the student the opportunity to select, design, and construct a wood working project associated with home or office furniture. Lectures include continuing shop and machine safety, design considerations, drawing, layout, and joinery. Shop practice in preparing stock, machining operations typical of furniture construction, fitting and assembly. Detailing and finishing techniques will also be covered. (Fall and Spring Semesters)

CSTN 130 Introduction to Building Trades I 3 credits

This course will explore blueprint and plan reading and delineate the role of building design, building site planning, and site preparation as it relates to the actual construction of a house. In addition, the student will gain a working knowledge of selected hand and power tools as they relate to construction-oriented projects. This will include use of all applicable tools and materials required in the construction of a house. All aspects of job site and workplace safety related to residential construction will be examined through lecture, video, and guest speakers. This course is part of the Building Trades core course selection and is taught in conjunction with CSTN 131 in which the student applies the principles and concepts learned during this class. (Fall Semester)

CSTN 131 Building Trades Field Experience I 10 credits

Corequisite: CSTN 130.
This course will provide a hands-on experience in blueprint and plan reading and delineate the role of building design, building site planning, and site preparation as it relates to the actual construction of a house. In addition, the student will demonstrate a working knowledge of selected hand and power tools as they relate to construction-oriented projects. This will include use of all applicable tools and materials required in the construction of a house. All aspects of job site and workplace safety related to residential construction will be practiced and evaluated. This course is part of the Building Trades core course selection and is taught in conjunction with CSTN 130 in which the student studies the principles and concepts of the Building Trades profession. (Fall Semester)

CSTN 140 Introduction to Building Trades II 3 credits

Prerequisites: CSTN 130, CSTN 131.
This course is the second semester progressive Building Trades course. It continues to emphasize blueprint and plan reading and delineates the role of exterior and interior finish as it relates to the actual construction of a house. The student will gain a working knowledge of window and door installation; plumbing, electrical, and heating/air conditioning procedures; insulation techniques; and drywall, flooring and trim installation. This will include use of all applicable tools and materials required in the finish construction of a house. All aspects of job site and workplace safety related to residential construction will be examined through lecture, video, and guest speakers. This course is part of the Building Trades core course selection and is taught in conjunction with CSTN 141 in which the student applies the principles and concepts learned during this course. (Spring Semester)

CSTN 141 Building Trades Field Experience II 10 credits

Prerequisites: CSTN 130, CSTN 131.
Corequisite: CSTN 140.
This course will provide a hands-on experience in blueprint and plan reading and delineate the role of exterior and interior finish as it relates to the actual construction of a house. The student will gain a working knowledge of window and door installation; plumbing, electrical, and heating/air conditioning procedures; insulation techniques; and drywall, flooring and trim installation. This will include use of all applicable tools and materials required in the finish construction of a house. All aspects of job site and workplace safety related to residential construction will be examined through lecture, video, and guest speakers. This course is part of the Building Trades core course selection and is taught in conjunction with CSTN 140 in which the student studies the principles and concepts of the Building Trades profession. (Spring Semester)

CSTN 195 Field Experience: Carpentry 4 credits

This course will provide a hands-on experience in actual carpentry projects. In addition, the student will demonstrate a working knowledge of selected hand and power tools as they relate to construction-oriented projects. This will include use of all applicable tools and materials required in the construction process. All aspects of job site and workplace safety will be practiced and evaluated during this course. (Fall Semester)

CSTN 198 Internship: Basic Cabinetry and Furniture 1 credit

Prerequisite: advisor's consent
This course offers a supervised, structured learning experience at an approved cabinetry/furniture business facility. Students will receive an orientation to some basic duties and tasks performed by a technician, and will be assigned some very basic tasks expected of an entry level employee. Completion of these tasks, under the supervision of an experienced technician, will enhance the student's knowledge of the day-to-day work of a technician in this field. Prior to placement at an internship site, students will attend an internship orientation to learn the application and internship process. (Fall and Spring Semesters)

CSTN 198 Internship: Cabinet and Furniture 6 credits

Prerequisites: CSTN 127 and DDSN 114.
This course is designed to provide students in the cabinet and furniture program a capstone course that integrates the technical skills of planning, design, construction, and installation of cabinets, counter tops, and furniture items associated with a building project. Coursework consists of a minimum of 120 hours of pre-planned, unique practicum that provides knowledge and skills not found in the traditional classroom setting. Students will interact with a "customer" to determine project requirements, develop a project concept and design, present the design to the "customer" for acceptance, construct, and install the cabinet and furniture items. The project will be accomplished in a group mode with all members of the course participating under the leadership of the instructor. The production will include CAD design and CNC manufacturing of select components. (Spring Semester)

CSTN 218 Advanced CNC Woods Manufacturing 6 credits

Prerequisites: DDSN 114 and/orDDSN 135.
Corequisites: CSTN 126 and CSTN 127.
This course is designed as a capstone project for the Cabinet and Furniture Technology program. Students will study and demonstrate all aspects of planning, designing, and constructing an advanced woods project. The SHOPBOT CNC router will be employed in a production setting employing the interface between computer-aided drawing (CAD) and computer-aided manufacturing (CAM) software applications. (Spring Semester)

CSTN 271 Construction Project Management 6 credits

Prerequisite: CSTN 141.
This course will provide a hands-on experience in the management aspects of the Building Trades program and delineate the role of a project leader or lead carpenter in planning and managing a construction site during the layout through framing phases of a residential home. Course requirements include work scheduling, the preparation and solicitation of material lists to building suppliers, selection and award of competitive bids for building supplies, and scheduling for delivery and availability of materials and sub-contractor support. Students will also provide remedial instruction/assistance to first-year students experiencing difficulty with learning objectives outlined in CSTN 130-CSTN 141. This course will include rotational assignments with local contractors and team leader assignments with the student built house project. Students participating in the contractor rotations will be paid through local temporary labor business and provided appropriate liability insurance and workman compensation benefits. (All Semesters)

CSTN 281 Construction Project Management II 6 credits

Prerequisite: CSTN 141.
This course will provide a hands-on experience in the management aspects of the Building Trades program and delineate the role of a project leader or lead carpenter in planning and managing a construction site during the finishing phases of a residential home. Course requirements include work scheduling, the preparation and solicitation of material lists to building suppliers, selection and award of competitive bids for building supplies, and scheduling for delivery and availability of materials and sub-contractor support. Students will also provide remedial instruction/assistance to first-year students experiencing difficulty with learning objectives outlined in CSTN 130-CSTN 141. This course will include rotational assignments with local contractors and team leader assignments with the student built house project. Students participating in the contractor rotations will be paid through a local temporary labor business and be provided appropriate liability insurance and workman compensation benefits. (All Semesters)

CULINARY ARTS (CULA)

CULA 103 Professional Chef I 12 credits

Prerequisite: instructor's consent.
An introduction to and application of fundamental cooking and baking theories and techniques for professional cooking. This course prepares students to use a variety of essential cooking and baking principles. In addition, the class will address topics that include product identification, safe handling of food items/sanitation, proper storage/receiving, knife skills, basic garnishing and food presentation, use and care of equipment, kitchen structure/organization, culinary history and terminology, simple recipe development, and seasoning/flavoring. Competencies in stocks, soups, starches, basic garde manger, poultry, quick breads, yeast breads, roll-in doughs, basic dessert sauces, syrups, creams, cookies, and pies will be completed. (Fall Semester)

CULA 104 Professional Chef II 12 credits

Prerequisite: instructor's consent.
Part II in the Professional Culinary Arts Series. This course integrates the fundamental culinary and baking skills learned in CULA 103 with more advanced techniques, including production and presentation of full plates and concentration on development of flavor. Topics consist of: fish, shellfish, meats, advanced garde manger (galantine, ballontine, pate, terrine, sausages, and savory mousse), advanced custards and creams, frozen desserts, fruit desserts and garnishes, and basic cakes with icings. (Spring Semester)

CULA 105 Food Service Sanitation 2 credits

Prerequisite: instructor's consent.
This course provides a thorough understanding of sanitation as it relates to the production, service, and management of a food service facility. It covers microorganisms, food borne illness, their causes and preventions, and food service workers' responsibilities in maintaining safety and public health. This class meets the necessary requirements of the National Restaurant Association's ServSafe Sanitation Certification. (Fall Semester)

CULA 148 Food and Beverage Service 3 credits

Prerequisite: instructor's consent.
A comprehensive review of food and beverage service in various outlets. This course will address the principles and procedures of operating successfully in a food and/or beverage facility. Students will also be provided with information and tools to help them understand and apply strategies for improving guest relations, inter-relationships between front and back of house staff, and developing labor and revenue control systems. A minimum of 15 hours working as a server in a dining establishment is required for completion of this course. A minimum of 15 hours of service in Chef's Table is required for completion of this course. (Fall Semester)

CULA 201 Professional Chef III 12 credits

Prerequisite: instructor's consent.
Part III and the final course in the Professional Culinary Arts Series. This course integrates all culinary and baking skills learned to this point with more advanced techniques. Speed in production, teamwork, presentation/plating, and development of flavor continue to be emphasized and expanded on. Students will incorporate procedures from all previous courses with an exploration of new topics, including international cuisine, American regional cuisine, complex cakes, petit fours, chocolates, and basic sugar work. (Summer Semester)

CULA 210 Nutritional Cooking 2 credits

Prerequisite: instructor's consent.
This course introduces students to the basic elements of nutrition, discusses nutritional menu planning, development of healthy recipes, and describes marketing nutrition in the hospitality industry. As consumer demands for healthful eating continue to increase, professionals in food service must have a thorough knowledge of nutrition to best meet and exceed those needs. The characteristics, functions and food sources of the major nutrients and the procedures used to maximize nutrient retention in preparation and storage of foods will be examined. Students will apply the principles of nutrient needs throughout the life cycle to menu planning and food production. (Fall Semester)

CULA 220 Purchasing and Cost Control 3 credits

Prerequisite: instructor's consent.
This course addresses the fundamentals of selection, procurement, storage, receiving, issuing, and cost controls used by food service establishments. Principles of purchasing and management cost controls will be examined for their effect on the profitability of hospitality operations. The class will include an introduction to computer software used throughout the industry for inventory and purchasing. (Fall Semester)

CULA 240 Menu Planning 2 credits

Prerequisite: instructor's consent.
This course is an introduction to the fundamentals of menu construction. Emphasis is placed on the importance of the menu in creating a successful business. Throughout the semester, students will examine and analyze various models and learn how changes to the menu can markedly increase/decrease sales, create interest, meet individual tastes and nutritional needs, and be used as an important sales and marketing tool. (Fall Semester)

CULA 248 Bar and Beverage Management 2 credits

Prerequisite: instructor's consent.
This course explores management/operation of beverage service in today's competitive hospitality industry. Emphasis is placed on: knowing your product, the relationship between beverages and food, equipment and procedures for operating a beverage service, laws and procedures related to responsible service of alcohol, and the process of implementing internal control systems. Topics include: learning the basic production processes for distillation and fermentation; distinguishing wines by grape and/or fruit, origin/growing region; various types of spirits and mixology; comparison of different types of beers, profitability of nonalcoholic beverages; safety and sanitation; staffing and supervision; liabilities and the guest; regulations within the industry; promoting the operation; and monitoring costs and profits. (Fall Semester)

CULA 250 Hospitality Supervision 2 credits

Prerequisite: instructor's consent.
A continuation of CULA 148. This course addresses the function of management/supervision as it pertains to the hospitality industry. Topics include: history, growth and development of food and beverage service, theories in supervision, organizational and strategic tools for increasing motivation and productivity, human resource management, financial planning and marketing. Beverage management is explored in-depth with an emphasis on discussion of the basic production processes for distillation and fermentation, distinguishing wines by grape and/or fruit, origin/growing region, and production process; evaluation of the relationship between food and beverages; and procedures for operating beverage service and for implementing internal control systems. (Spring Semester)

CULA 298 Internship I: Chef's Table 3 credits

Prerequisite: instructor's consent.
This course is an integration of techniques and theory learned throughout the first two semesters of study with 140 hours of practical work experience at the Chef's Table, an on-campus food service operation. Students benefit from this experience by gaining confidence with their skills in menu planning, food production and service. Additionally, this experience will give students critical practical experience with a live audience before entering the workforce and their second externship. (Fall and Spring Semesters)

CULA 298 Internship II: Catering 3 credits

Prerequisite: instructor's consent.
This course is a comprehensive application of techniques and theory learned throughout the course of study, and is incorporated with 150 hours of practical work experience in catering on and off-premise college sanctioned events. Students are provided with an opportunity to showcase their knowledge of, and skills in culinary, baking, pastry, and management. Menu development; adhering to sanitation standards, appropriate selection of equipment; precision in timing, planning, and sequencing; and formulating an understanding of traditions and customs of entertaining will be addressed. Students will be instructed on the importance of flexibility, creative problem solving, and refinement of their customer service skills. Methods of preparing for banquet and buffets, offering guest centered management, coordinating events, creating and maintaining buffet and decorative displays, and logistical planning of on and off-campus events will also be explored. (Fall and Spring Semesters)

DANCE (DANC)

DANC 194 Seminar/Workshop 3 credits

The focus of this course is to instruct the student in the awareness of the body used in the theatre performance style. This is done through understanding, practicing, and executing the basic technical moves of this form of dance. The vocabulary of stops and moves are taught carefully so that the student can learn, appreciate, and understand how the body and muscles work together for a fluid and strong performance. (Intermittently)

DRAFTING DESIGN (DDSN)

DDSN 114 Introduction to CAD 3 credits
Formerly IT 175 Introduction to AutoCAD

Prerequisite: CAPP 106 or instructor's consent.
A systems-oriented class designed to introduce students to the concepts, techniques, and applications of PC-based computer aided drafting. The course will provide students with the competencies required to create, edit, and output drawings in both digital and printed format. Command structures, coordinate drawing, text dimensions, and fill structures will be covered. (Fall and Spring Semesters)

DDSN 135 Solidworks 2 credits
Formerly IT 179 Introduction to SOLIDWORKS Programming

This course presents the fundamental skills and concepts to build parametric model parts and assemblies and how to make simple drawings of those parts and assemblies. This course is designed around a process-based training approach emphasizing the processes and procedures necessary to complete a particular task. By utilizing case studies to illustrate these processes, the student learns the necessary commands, options, and menus in the context of completing a design task within SOLIDWORKS. An introduction to the transferability and compatibility of SOLIDWORKS, MASTERCAM, GIBSCAM, and Pro-Engineer software is provided. (Fall and Spring Semesters)

ECONOMICS (ECNS)

ECNS 101B Economic Way of Thinking 3 credits

A critical study of social issues using the constructs of incentives and the role of markets. This course will provide a framework of basic and analytical tools useful in the analysis of contemporary social issues. The influences of government regulation and deregulation, market power, income distribution, welfare policies, changing economic structure within the U.S. economy, and free-market environmentalism are discussed in the context of economic analysis. (Spring Semester)

ECNS 132 Economics and the Environment 3 credits

The application of economic analysis (cost/benefit and supply and demand) to environmental topics including renewable and non-renewable natural resource issues, environmental resource use, pollution control issues, and the global environment. The role of government and governmental environmental policy will be analyzed. (Fall Semester)

ECNS 201B Principles of Microeconomics 3 credits

This course is an introduction to the fundamental principles and concepts of individual, business, and government behavior, including basic economic analysis of choice and its consequences, and supply and demand. Additional analysis of the costs of production and theories of business firm output and pricing decisions, labor and wage determination, income distribution, politics, health care and environmental issues will be addressed. (All Semesters)

ECNS 202GB Principles of Macroeconomics 3 credits

This course is an introduction to the fundamental principles and concepts of national economies, including basic economic analysis of choice and its consequences and supply and demand. The problems and proposed solutions of national economies are addressed, including unemployment and inflation, national income accounting, economic growth, fiscal and monetary policy, business cycle theories and international trade. (All Semesters)

EMERGENCY CARE PROVIDER (ECP)

ECP 100 First Aid and CPR 2 credits
Formerly HLTH 201 First Aid

Procedures and techniques of immediate emergency care for injury or sudden illness are learned. This includes first aid for minor injuries, rescue breathing, CPR and other life-saving techniques. CPR certification is available. (Fall and Spring Semesters)

ECP 104 Workplace Safety 1 credit
Formerly HLTH 202 Health and Behavioral Emergencies in the Workplace

This course complies with American Red Cross Standards for First Aid and CPR training in the workplace. It will use hands-on practice and real-life scenarios to train the students and will enable them to retain the skills and tools to respond to a work-related type emergency. The comprehensive course meets training guidelines for first aid established by the Occupational Safety and Health Administration. In addition, this course will emphasize the human relations aspects of individual and group relations responding and treating a patient in a life-threatening situation. (Fall and Spring Semesters)

ECP 130 Emergency Medical Technician 5 credits
Formerly EMS 270 EMT-B

Prerequisite: instructor's consent.
An introduction to the field of emergency trauma medicine. Upon completion of this course and with the consent of the instructor, the student will be qualified to sit for the National Written and Practical Examinations for certification as an Emergency Medical Technician-Basic. This course requires a minimum of 120 hours which includes both classroom and clinical experiences. (Fall and Spring Semesters)

ECP 148 EMT Field Practicum 2 credits
Formerly EMS 180 EMT Field Practicum

Prerequisite: Montana EMT-B License
For students currently licensed in Montana to an EMT-basic level, this opportunity will allow students to gain experience operating as an EMT member of an advanced life support team. This is valuable experience to gain prior to enrolling in the paramedic sections. (Summer Semester)

ECP 200 Transition to Paramedic Care 2 credits
Formerly EMS 150 Transition to Advanced Care

Prerequisite: Montana licensure and NREMT certification as an EMT.
This course provides an opportunity for the EMT-Basic to start learning the cognitive and behavioral differences between an EMT and a paramedic. Topics covered include EMS systems; workforce safety and wellness; public health, medical; legal and ethical issues; communications; documentation; life-span development; principles of pharmacology and medication formularies. (Fall Semester)

ECP 201 Paramedic Fundamentals 3 credits
Formerly EMS 155 Paramedic Fundamentals

Prerequisites: BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 202, ECP 204, ECP 205, ECP 206, ECP 216.
This course continues with the concepts learned in ECP 200, generating more in-depth discussion as well as new concepts. Topics covered include venous access and medication administration, patient assessment skills, and airway management. (Spring Semester)

ECP 202 Paramedic Fundamentals Lab 1 credit
Formerly EMS 156 Paramedic Fundamentals Lab

Prerequisites: BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 201, ECP 204, ECP 205, ECP 206, ECP 216.
This course continues with the concepts learned in ECP 200, generating more in-depth discussion as well as new concepts. Topics covered include venous access and medication administration, patient assessment skills, and airway management. (Spring Semester)

ECP 204 Medical Emergencies I 3 credits
Formerly EMS 165 Medical Emergencies I

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 201, ECP 202, ECP 205, ECP 216.
This course will introduce the student to pulmonary and cardiac emergencies, including review of anatomy and physiology and pathophysiology of the respiratory and cardiac systems. The student will also learn electrophysiology of the heart, 3 lead and 12 lead rhythm interpretation, and appropriate assessment and management of respiratory and cardiac emergencies. Other topics covered include obstetrics, neonatal care and pediatrics. (Spring Semester)

ECP 205 Medical Emergencies I Lab 1 credit
Formerly EMS 166 Medical Emergencies I Lab

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 201, ECP 202, ECP 204, ECP 216.
This course allows the student to practice the psychomotor skills learned in ECP 204. Skills include review of airway management, management of respiratory emergencies, 3 lead and 12 lead rhythm interpretations, management of cardiovascular emergencies, and also includes the American Heart Association's Advanced Cardiac Life Support certification (ACLS). (Spring Semester)

ECP 206 EMS Case Studies 3 credits
Formerly EMS 160 EMS Case Studies

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 201, ECP 202, ECP 204, ECP 205, ECP 216.
This course provides the student with a program of study to assess and manage medical and trauma emergencies in the pre-hospital environment utilizing a case study perspective. Students will initially cover anatomy and physiology review, pathophysiology, and critical thinking/clinical decision making. Case studies include cardiac and respiratory emergencies, other selected medical emergencies, and all types of trauma emergencies. (Spring Semester)

ECP 216 Hospital Clinical I 5 credits
Formerly EMS 275 Clinical I

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200, Montana EMT-B License.
Corequisites: ECP 201, ECP 202, ECP 204, ECP 205, ECP 206.
This course provides the opportunity to apply, in a clinical setting, the didactic knowledge and skills developed in the classroom and lab. It serves as the first stage in assisting the student to become an employable EMS provider. Clinical skills addressed include patient assessment and evaluation, vital signs management, development of airway skills, development of communication skills, introduction to various skills necessary for patient care, and development of safety practices. (Spring Semester)

ECP 230 Trauma 3 credits
Formerly EMS 221 Trauma

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 231, ECP 234, ECP 235, ECP 236, ECP 246.
This course will cover the pathophysiology and management of trauma to include assessment of the trauma patient, management of head injuries, chest injuries, abdominal injuries, spinal injuries, orthopedic injuries, management of the multi-system trauma patient, management of special airway problems, and current trends in trauma management. (Fall Semester)

ECP 231 Trauma Lab 1 credit
Formerly EMS 222 Trauma Lab

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 230, ECP 234, ECP 235, ECP 236, ECP 246.
The student will practice and gain the manipulative skills necessary to effectively manage the tasks in trauma. Upon completion, the student receives provider certification in Pre-Hospital Trauma Life Support (PHTLS). (Fall Semester)

ECP 234 Medical Emergencies II 2 credits
Formerly EMS 265 Medical Emergencies II

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 230, ECP 231, ECP 235, ECP 236, ECP 246.
This course provides an intense course in the pathophysiology and management of medical emergencies to include the endocrine system, nervous system, GI/GU emergencies, anaphylaxis, toxicology and substance abuse, infectious diseases, environmental emergencies, geriatric and pediatric emergencies. (Fall Semester)

ECP 235 EMS Operations 3 credits
Formerly EMS 250 EMS Operations

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 230, ECP 231, ECP 234, ECP 236, ECP 246.
This course provides the student with information regarding multiple phases of EMS operations. Topics covered include transport operations, incident management and mass-casualty incidents, vehicle extrication and special rescue, hazardous materials, terrorism, disaster response, and crime scene awareness. (Fall Semester)

ECP 236 Medical II / EMS Operations Lab 1 credit
Formerly EMS 266 Medical Emergencies II and EMS Operations Lab

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 230, ECP 231, ECP 234, ECP 235, ECP 246.
This course prepares the student to function in the pre-hospital emergency setting in EMS operations. Lab experiences will include transport operations, incident management and MCI, vehicle extrication and special rescue, hazardous materials, terrorism, disaster response, and crime scene awareness. The student will also complete American Heart Association certification in Pediatric Advanced Life Support. (Fall Semester)

ECP 246 Hospital Clinical II 6 credits
Formerly EMS 277 Clinical II

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200, Montana EMT-B license.
Corequisites: ECP 230, ECP 231, ECP 234, ECP 235, ECP 236.
This course provides the opportunity to apply, in a clinical setting, the didactic knowledge and skills developed in the classroom and lab. Serves as the first stage in assisting the student to become an employable EMS provider. Clinical skills addressed include patient assessment and evaluation, vital signs management, development of airway skills, development of communication skills, introduction to various skills necessary for patient care, and development of safety practices. (Fall Semester)

ECP 250 NREMT Exam Preparation 2 credits
Formerly EMS 271 NREMT Exam Preparation

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 251, ECP 298 Field Internship.
This course prepares the paramedic student for the National Registry Paramedic Practical Exam. It is a review of the core curriculum taught throughout the second and third semester of the Paramedicine program. (Spring Semester)

ECP 251 NREMT Exam Preparation Lab 2 credits
Formerly EMS 272 NREMT Exam Preparation Lab

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200.
Corequisites: ECP 250, ECP 298 Field Internship.
This course prepares the paramedic student for the National Registry Paramedic Practical Exam. It is a review of the core curriculum taught throughout the second and third semester of the Paramedicine program. (Spring Semester)

ECP 295 Clinical III: Field Experience 8 credits
Formerly EMS 279 Clinical III: Field Experience

Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, ECP 200, Montana EMT-B license.
Corequisites: ECP 230, ECP 231, ECP 234, ECP 235, ECP 236.
This course provides the opportunity to apply, in a clinical setting, the didactic knowledge and skills developed in the classroom and lab. This course serves as the final stage in assisting the student to become an employable EMS provider. Cognitive, psychomotor, and affective evaluation skills addressed include patient assessment, history gathering, treatment prioritizing, diagnostic impression, protocol knowledge, radio communication, written documentation, airway management, fluid/drug management, cardiac management, trauma and medical emergencies management, attitude, professionalism, assertiveness, and team leader qualities. (Spring Semester)

ECP 298 Internship: Paramedicine 2 credits
Formerly EMS 298 Internship: Paramedicine

Prerequisites: ECP 298 Field Internship, program director's consent.
This course offers a supervised, structured learning and observational experience in a pre-hospital emergency medical care setting with an approved business/organization. Students will receive training related to their field of study, enhance their academic learning and gain an exposure to this field. Students will receive assistance in developing application materials and finding work sites that meet learning and legal criteria from the Career Development Coordinator. (Summer Semester)

EARLY CHILDHOOD EDUCATION (EDEC)

EDEC 108 Introduction to Early Childhood Education 3 credits

This course provides an overview of early childhood history, practice and relevant issues. It will focus on program philosophies and the importance of developmentally appropriate practices in early childhood settings. Students will learn of the unique needs of young children and families. Students will also learn about the professional opportunities in the field of early childhood education. (Fall Semester)

EDEC 130 Health, Safety, and Nutrition in Early Childhood 3 credits

This course is designed to increase teachers' and parents' understandings of the unique health and safety needs of young children. Students will learn how to incorporate transitions and scheduling into learning goals. (Fall Semester)

EDEC 135 Language and Literature for Young Children 2 credits

Prerequisites: EDEC 108, EDEC 245, EDEC 281.
This course will explore when and how to use books and language to meet specific needs, and how to create an environment that encourages and promotes the emergence of literacy in young children. (Fall Semester)

EDEC 210 Meeting the Needs of Families 3 credits

This course includes the development of child advocacy skills through awareness of the child's role in the family and society. The student will increase the understanding of diverse family structure and techniques to encourage parent-teacher partnerships. Students will learn about existing community resources and develop the ability to access resources to meet the needs of children and families. (Spring Semester)

EDEC 230 Positive Child Guidance 3 credits

Prerequisite: EDEC 108, EDEC 245, or instructor's consent.
This course includes the development of child advocacy skills through awareness of the child's role in the family and society. The student will increase the understanding of diverse family structure and techniques to encourage parent-teacher partnerships. Students will learn about existing community resources and develop the ability to access resources to meet the needs of children and families. (Fall Semester)

EDEC 235 Creative Art for the Developing Child 2 credits

Prerequisite: EDEC 108, EDEC 245, EDEC 281, and/or instructor's consent.
Focuses on the development of children's art and ways to implement developmentally appropriate art activities in learning environments for young children. Focuses on children's spontaneous art experiences as enhancers of creativity and self-esteem. (Fall Semester)

EDEC 245 Early Childhood Developmental Themes 3 credits

This course will explore themes in early childhood; attachment, separation, autonomy, accomplishment and failure provide a foundation in which individual developmental needs of children can be assessed by parents and teachers. Early childhood themes will be looked at in the context of the dominant culture child, the bi-cultural child and the child with disabilities. Students will be introduced to the techniques of observing, recording, and interpreting the behavior of children. Students will examine research, theories, issues and stages in a social/political context. Students will learn the importance of parents as children's first and most important teachers. (Fall Semester)

EDEC 249 Infant/Toddler Development and Group Care 4 credits

This course provides students with the developmental foundation including theories, issues, research and their application in program planning for infants and toddlers. Students will be required to observe and document infants and toddlers in group settings. Students will plan inclusive environments for infants and toddlers. Students will learn about the importance of understanding families in a cultural context. (Fall Semester)

EDEC 250 Math and Science Curriculum for Early Childhood 2 credits

Prerequisite: EDEC 108, EDEC 245, EDEC 281, or instructor's consent.
This course will focus on developmentally appropriate activities that construct scientific and mathematical knowledge in meaningful and long lasting ways for children using their spontaneous ideas and creativity. (Spring Semester)

EDEC 252 Music and Movement for Young Children 2 credits

Prerequisite: EDEC 108, EDEC 245, EDEC 281, or instructor's consent.
This course is designed to increase the understanding of children's rhythmic movement capabilities and the interaction of play in the development of cognitive, social, emotional and physical domains. Emphasis is on how teachers can use movement as a way of learning for young children. (Spring Semester)

EDEC 260 Administration of Early Childhood Programs 3 credits

Prerequisite: EDEC 108, EDEC 230, EDEC 245, EDEC 295 Early Childhood Fieldwork/Practicum I, or instructor's consent.
The student will learn the principles and practices of administration and supervision of programs for young children. Areas covered include types of schools, maintenance and operation of the physical plant, regulatory agencies and legal requirements, personnel policies and practices, records, accounting, and communication procedure. (Spring Semester)

EDEC 281 Early Childhood Curriculum Design and Implementation I 3 credits

Prerequisite: EDEC 108, EDEC 245, or instructor's consent.
The student will learn and explore methods and materials for planning and implementing an integrated program for young children, including methods of planning developmentally appropriate activities to enhance children's development. Emphasis on designing an environment for learning related to curriculum goals. (Spring Semester)

EDEC 295 Early Childhood Fieldwork/ Practicum I 3 credits

Prerequisite: EDEC 108, EDEC 245 or instructor's consent.
This course provides close supervision at approved, quality early childhood education sites. Students will apply child development, curriculum and guidance knowledge while implementing and evaluating learning experiences in all areas of learning. Conducting group times, handling routines of the classroom and responding to the individual and group needs will be required. (Spring Semester)

EDEC 295 Early Childhood Fieldwork/ Practicum II 3 credits

Prerequisite: EDEC 108, EDEC 230, EDEC 245, EDEC 281, EDEC 295 Early Childhood Fieldwork/Practicum I or instructor's consent.
This course provides close supervision at approved, quality early childhood education sites. Students will apply child development, curriculum and guidance knowledge while implementing and evaluating learning experiences in all areas of learning. Students will work closely with families. Students will observe, assess and plan programs for individual children. (Spring Semester)

SPECIAL EDUCATION (EDSP)

EDSP 204 Introduction to Teaching Exceptional Learners 3 credits
Formerly EDUC 256 Instruction of Special Students

Introduction to special behavior patterns, with and without physical deviations from the norm, which constitute need for special education. Techniques of teaching to meet these needs in special or regular classrooms. (All Semesters)

EDSP 244 Fundamentals of Learning Disabilities 3 credits
Formerly EDUC 244 Learning Disabilities

Prerequisite: EDU 201 or instructor's consent.
Examination of the characteristics (academic and behavioral), identification, diagnosis, and educational placement for the learning disabled child (K-12) will be investigated. Educational opportunities, current controversies and emerging trends will be presented. (Summer Semester)

EDUCATION (EDU)

EDU 201 Introduction to Education with Field Experience 3 credits

An introduction to public education and its place in society. A preview of the teaching profession, preparation, rewards, development, structure, support and control of schools in America. Numerous educational topics will be introduced including Effective Schools Research, A Nation at Risk, America 2000, philosophies of education, career goals, and Gallup Poll results. Forty-five hours of classroom observation are required. (Fall and Spring Semesters)

EDU 221 Educational Psychology and Measurement 3 credits

Prerequisites: EDU 201, PSYX 100.
This course focuses on learning as a basis of instruction and classroom management. Analysis of fundamental psychological concepts underlying classroom teaching and management, learning and evaluation, including educational measurement. Emphasis on the cognitive, developmental and motivational aspects of learning. (Spring Semester of Odd Years)

EDU 242 Introduction to Gifted Education 2 credits

This course is designed for prospective teachers who require current research, trends, and practices within the field of education of the gifted and talented. Gifted and talented students have special needs that require instructional and curricular modifications commensurate to their abilities. This course provides the students with an overview of giftedness as it relates to young people and provides an introduction to virtually all aspects of program planning and development. The course will also explore special identification and programming needs for the culturally different, economically disadvantaged, handicapped, and underachieving gifted student. (Summer Semester)

EDU 270 Instructional Technology 3 credits

The purpose of this course is to teach pre-service educators how to use and manage technology in educational settings and communicate methods and reasons for using technology. This course focuses on the computer and its educational applications for pre-service teachers. An emphasis is placed on integrating computer tools into class instruction. (Fall and Spring Semesters)

EDU 297 Methods: K-8 Art 3 credits

This course is designed to provide the student with an introduction to theory and methods used in elementary art instruction. (Fall Semester)

EDU 297 Methods: K-8 Music 3 credits

This course is designed for elementary education students only. The course will acquaint (or reacquaint) students with music fundamentals, music theory, and methods for teaching or supervising music in the elementary classroom. (Spring Semesters)

EDUCATION (EDUC)

EDUC 244 see EDSP 244
EDUC 256 see EDSP 204

ENGINEERING: ELECTRICAL (EELE)

EELE 101 Introduction to Electrical Fundamentals 2 credits

Corequisite: M 121.
This is an introductory course, in a lecture plus lab format, in electrical fundamentals including Kirchhoff's Laws, power and energy in resistive circuits, use of meters and oscilloscopes, time-varying signals in electric circuits, inductors and capacitors, series and parallel resonance circuits, and digital circuits. The primary objective of this course is to introduce students, in a hands-on setting, to the proper use of basic electrical instruments, including multi-meters, DC power supplies, function generators, and oscilloscopes in the measurement, testing, construction, and analysis of basic electrical and electronic components, circuits, and devices. (Spring Semester)

EELE 201 Circuits I for Engineering 4 credits

Prerequisites: EELE 101, M 172, PHSX 212.
An introductory course which covers Ohm's Law, Kirchhoff's Laws, nodal and mesh analysis method, network theorems, capacitors, inductors, RC-RL response, complex frequency, phasors, steady state AC circuits, and three phase circuits. (Intermittently)

ELECTRONICS TECHNOLOGY (EET)

EET 205 Solid State Electronics 4 credits

Prerequisite: ELCT 110.
This is an introduction to semiconductor technologies used in solid state electronics with an emphasis on diodes and transistors. Lab exercises reinforce and illustrate lecture topics. (Spring Semester)

EET 227 Digital Electronics 4 credits

Prerequisite: ELCT 110.
This course explores digital electronic circuits and devices that make up a computer system. Topics include binary and hexadecimal number systems, Boolean algebra and digital logic theory, simple logic circuits, combinatorial logic, and sequential logic. Analog-to-digital and digital-to-analog interfaces are covered. Includes lab exercises. (Spring Semester)

EET 237 Programmable Logic Controllers 4 credits

This course is an introduction to the concepts involved with programmable logic controllers (PLCs). The applications, operations, and programming of PLCs will be covered with an emphasis on programming. (Spring Semester)

ENGINEERING: GENERAL (EGEN)

EGEN 102 Introduction to Engineering Computer Applications 2 credits

Prerequisite: M 171.
This course introduces engineering students to computer tools useful in analysis of problems from various engineering fields. Excel, widely available spreadsheet program will be used to graph functions, solve simultaneous equations, perform data analyses (like regression, interpolation, trending, what-if and statistical analyses, unit conversions, numerical integration, and other.) Mathcad, more specialized mathematics software will be used in solving symbolic equations and scientific visualizations. (Fall Semester)

EGEN 105 Introduction to General Engineering 1 credit

Topics in engineering including its practice, communications, ethics, education, history, disasters, mechanics, electricity and computers. (Fall Semester)

EGEN 115 Engineering Graphics 3 credits

Introductory course developing freehand sketching and computer-aided modeling techniques for engineering design graphics. Skills will be developed for sketching and interpreting dimensioned multi-view drawing, pictorials, sections, tolerancing and assemblies for mechanical designs. (Spring Semester)

EGEN 201 Engineering Mechanics-Statics 4 credits

Prerequisites: M 172, PHSX 210.
Vector treatment of static mechanics in two and three dimensions; discrete and distributed force systems; analysis of trusses, beams and cables; coulomb friction on surfaces, screws and belts; the distributive properties of areas and volumes; and the methods of virtual work and stationary potential energy. (Fall Semester)

EGEN 202 Engineering Mechanics-Dynamics 4 credits

Prerequisite: EGEN 201.
For particles: kinematics and kinetics, energy and momentum methods. For rigid bodies: relative motion, plane motion, energy and impulse-momentum methods, dynamics of general motion, vibrations. (Spring Semester)

EGEN 205 Mechanics of Materials 4 credits

Prerequisite: EGEN 201.
The principles of engineering mechanics applied to deformable bodies including: stress, strain, Hooke's Law, thermal stress, torsion, combined stresses, stress transformations, deflection of beams, columns. (Spring Semester)

ELECTRICAL TECHNOLOGY (ELCT)

ELCT 100 Introduction to Electricity 3 credits
Formerly ELEC 100 Introduction to Electricity

This is an introductory lecture class in electrical fundamentals. A practical approach will be used for the study of electricity including Ohm's Law; power; series and parallel circuits; direct and alternating current. A strong emphasis will be placed on diagrams and troubleshooting. (Fall and Spring Semesters)

ELCT 102 Electrical Fundamentals II 4 credits
Formerly ELEC 102 Electrical Fundamentals II

Prerequisite: ELCT 110.
Corequisites: M 111, WRIT 122.
This course will introduce the student to alternating current. The electrical properties and their effects on the circuit will be examined. Basic trigonometric skills will be utilized to perform calculations for analyzing various electrical circuits. (Spring Semester)

ELCT 103 Electrical Code Study/ Codeology 3 credits
Formerly ELEC 103 Electrical Code Study Fundamentals

Prerequisite: ELCT 139
Corequisites: M 111, WRIT 122.
This course is a study of the National Electrical Code. Wiring design and protection, wiring methods and materials, and equipment for general use are covered. (Fall and Spring Semesters)

ELCT 110 Basic Electricity I 5 credits
Formerly ELEC 101 Electrical Fundamentals I

This course will introduce the student to the various electrical properties and the equipment which produces those properties. Basic circuitry will be examined, utilizing algebraic skills to perform the calculations. (Fall and Spring Semesters)

ELCT 111 Electric Meters and Motors 3 credits
Formerly ELEC 111 Electric Meters and Motors

This course is a practical hands-on course using ammeters, voltmeters, watt meters, and multimeters in testing and troubleshooting electric motors, components and wiring systems. The course also includes a study of single and three-phase AC motors, their construction features and operating characteristics. This lecture/laboratory class emphasizes electric motor terminology, identification of motor types, enclosures, mounts, motor selection, connections, maintenance, testing and troubleshooting. Students are also introduced to motor loads, protection, controls, and devices used to connect motors to their loads such as pulleys, V-belts, gear boxes and couplings. (Spring Semester)

ELCT 133 Basic Wiring 4 credits
Formerly ELEC 133 Basic Wiring

Prerequisite: ELCT 110.
This course consists of lectures giving an introduction to basic wiring circuits, materials and tools used and wiring methods. Students will also perform laboratory work with actual circuit layout and installation in accordance with the rules and regulations of the National Electrical Code. This course deals primarily with residential wiring methods. (Fall and Spring Semesters)

ELCT 137 Electrical Drafting 2 credits
Formerly ELEC 137 Electrical Drafting

Prerequisite: ELCT 110.
This course will have students develop techniques of communicating through the use of mechanical drawings; electrical drawings; heating, ventilation and air conditioning drawings. Basic blueprint reading and sketching are included as well as an introduction to CAD. (Spring Semester)

ELCT 139 Electric Code Study - Residential 3 credits
Formerly ELEC 139 Electric Code Study-Residential

This course is an introductory study of National Electrical Code requirements for residential wiring, including protective ground circuits, service entry and electrical safety requirements for routine residential electrical installations. (Spring Semester)

ELCT 204 Electrical Planning and Estimating 3 credits
Formerly ELEC 204 Electrical Planning and Estimating

Prerequisite: ELCT 103 or instructor's consent.
This course is an applied course in the planning and cost estimation of electrical installations and rehabs for both commercial and residential applications. The course will use current catalog and electrical supply information to determine rough cost estimates based on blueprint or electrical drawings, as well as using customer requirements to determine the plan and cost estimates for new and old work. (Fall Semester)

ELCT 205 Electrical Design and Lighting 3 credits
Formerly ELEC 205 Electrical Design and Lighting

This is a class discussion course dealing with electrical material and equipment sizing, layout and application, applicable wiring codes, regulations and rules and characteristics of common electrical distribution systems as used in industrial plants and commercial building locations. Included is a study of short-circuit current, current limiting and coordination, power factor correction and electrical rates. This course includes the study of modern illumination principles, calculation procedures and equipment for lighting installations. Also included are discussions of building construction, heat loss calculations and electric heating equipment selection. (Fall Semester)

ELCT 210 Advanced Current Theory 5 credits
Formerly ELEC 201 Alternating Current Theory

Prerequisite: ELCT 102.
This course is a study of three-phase alternating current circuits and single and three-phase transformers and machines. The theory and operation of three-phase wye and delta circuits and the relationship of voltage, current and power in these circuits. The use of phasor algebra in the solution of alternating current problems is stressed as are the characteristics and use of electrical instruments such as voltmeters, ammeters, ohmmeters, and watt meters. Students learn the theory and operation of transformers with single and three-phase connections and are introduced to alternating current machines. (Fall Semester)

ELCT 211 AC Measurements 3 credits
Formerly ELEC 211 AC Measurements

Corequisite: ELCT 210.
This lecture/lab course consists of a series of experiments to investigate the characteristics of single-phase and three-phase electrical circuits. The connections and testing of transformers in both single-phase and three-phase configurations are stressed. Students also learn the operation of three-phase motors from conventional sources and phase converters with an emphasis on efficiency, operating characteristics and connections. (Fall Semester)

ELCT 233 Commercial Wiring Lab 3 credits
Formerly ELEC 233 Commercial Wiring Lab

Prerequisite: ELCT 133.
Corequisite: ELCT 236.
This course is an extension of ELCT 133 with lectures emphasizing commercial wiring methods. Students will perform laboratory work consisting of actual installation of various raceways, as well as connecting of special equipment used in commercial and industrial applications, all in accordance with the National Electrical Code. (Spring Semester)

ELCT 236 Conduit, Raceways, and Code Calculations Lab 3 credits
Formerly ELEC 236 Conduit, Raceways and Code Lab

Prerequisite: ELCT 133.
Corequisite: ELCT 233.
This course includes laboratory work with Code application relating to conduit bending, as well as National Electrical Code calculations for wire and cable installation. Students will perform lab work consisting of actual installation of conduit, wire and cable. (Spring Semester)

ELCT 239 Grounding and Bonding Fundamentals 3 credits
Formerly ELEC 239 Grounding/Bonding Fundamentals

This course is a combination lecture/lab series of grounding theory, as well as characteristics of grounded and non-grounded systems. Labs include proper grounding practices, various grounding applications, tools and materials usage and methods of compressions and exothermic application and installations. (Spring Semester)

ELCT 241 Electric Motor Controls 3 credits
Formerly ELEC 241 Electric Motor Controls

This course is a lecture/lab course oriented to the study of electromechanical control system concepts. Experiments are designed to illustrate the principles, applications, connection and installation procedures of electrical controllers. Special emphasis is placed on the analysis and development of control circuits. (Spring Semester)

ELCT 247 Medium and High Voltage 3 credits
Formerly ELEC 247 Medium and High Voltage

This course is a lecture/lab course which covers medium and high voltage electrical theory, conductors, insulators, overcurrent devices, testing, termination, safety precautions and safety equipment. (Spring Semester)

ELCT 251 Introduction to Photovoltaic Systems 5 credits
Formerly ELEC 250 Introduction to Photovoltaic Systems

Prerequisite: ELCT 100.
This course is designed to introduce students to the new career opportunities in the exploding "green" market of photovoltaic systems. The curriculum facilitates successful learning through a combination of lecture, labs, and hands-on construction, installation and control of a working photovoltaic system. In addition, the economics and viability of photovoltaic as compared to other energy systems will be studied. This course can be repeated one time only with instructor's approval for students seeking a grade improvement. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ELCT 252 Fundamentals of Grid Tied Photovoltaic Systems 5 credits
Formerly ELEC 252 Fundamentals of Grid Tied Photovoltaic Systems

Prerequisites: ELCT 102, ELCT 251.
This is a lecture/lab course designed to build a firm foundation of basic principles and technologies of solar photovoltaic energy systems. Emphasis is placed on system design and installation, including site and resource assessment, load analysis, and cost analysis. (Fall and Spring Semesters)

ELECTRICAL TECHNOLOGY (ELEC)

ELEC 100 see ELCT 100
ELEC 101 see ELCT 110
ELEC 102 see ELCT 102
ELEC 103 see ELCT 103
ELEC 111 see ELCT 111
ELEC 133 see ELCT 133
ELEC 137 see ELCT 137
ELEC 139 see ELCT 139
ELEC 201 see ELCT 210
ELEC 204 see ELCT 204
ELEC 205 see ELCT 205
ELEC 211 see ELCT 211
ELEC 233 see ELCT 233
ELEC 236 see ELCT 236
ELEC 239 see ELCT 239
ELEC 241 see ELCT 241
ELEC 247 see ELCT 247
ELEC 250 see ELCT 251
ELEC 252 see ELCT 252

EMERGENCY MANAGEMENT (EM)

EM 100 Principles of Emergency Management 3 credits

Prerequisites: online FEMA courses: ICS 100, ICS 700.
This course is intended to provide information that will enable persons just entering the profession or expanding their roles to have the ability to work with the main emergency management issues. The primary purpose of this course is to provide an overview of the characteristics, functions and resources of an integrated system and how various emergency management services work together in a system of resources and capabilities. Emphasis will be placed on how this system is applied to all hazards for all government levels, across the four phases and all functions of emergency management. (Fall Semester)

EM 110 Disaster Response 3 credits

Prerequisites: online FEMA courses: ICS 100, ICS 700.
This course will examine the necessary components required for incident response and recovery. Topics will include rapid situation assessment, special population needs (elderly and persons with disabilities), debris removal and disposal, how to obtain outside help, and continuity of local government operations. The role of local government in disaster recovery will be examined. Techniques for helping supervisors and workers deal with the disaster response will be covered. Management of donations and spontaneous volunteers will also be reviewed. (Fall Semester)

EM 120 Mitigation Planning 3 credits

Prerequisites: online FEMA courses: ICS 100, ICS 700.
In this course, the student learns how to identify, monitor and respond to hazardous conditions. These conditions may originate as natural or human-caused events. The students will cover complete process from building the local mitigation team through conducting hazard analysis, and developing local mitigation goals and measures. The course is intended to educate members of emergency management on their role in mitigation planning. (Spring Semester)

EM 130 Emergency Operations Center (EOC) Management and Operations 3 credits

Prerequisites: online FEMA courses: ICS 100, ICS 700.
This course is an overview of incident command, its role in disaster management, and how incident command and the emergency operations center interface to manage a disaster. Students will understand and be able to manage resources and personnel for level 3 and level 4 incidents. (Spring Semester)

EM 140 Public Information Officer 3 credits

Prerequisites: online FEMA courses: ICS 100, ICS 700.
This course provides students with the knowledge and skills needed to perform the public information duties as they relate to emergency management. The course focuses on the definition of the job of the public information officer. The course assists participants with building skills needed for this position, such as oral and written communications, understanding and working with the media and the basic tools and techniques PIOs need to perform their role during an incident. (Spring Semester)

EM 200 Responding to Terrorism 3 credits

Prerequisites: online FEMA courses: ICS 200, ICS 800.
This course covers terrorists activities aimed at achieving radical changes around the world with violence. Topics include the identifications of terrorist groups who are willing to kill innocent people by the use of explosives, weapons, and other violent means; and the action by governments to counter terrorism. Upon completion, the student will have a good understanding of terrorism around the world today. (Fall Semester)

EM 210 Exercise Design 3 credits

Prerequisites: online FEMA courses: ICS 200, ICS 800.
This course is designed to introduce students to the fundamentals of emergency management exercise design, management and evaluation. Students will design an exercise, identify the logistics necessary for execution and management of the exercise, and develop an exercise evaluation plan. Students will also be introduced to the concept of comprehensive exercise programs that are used to improve on the four phases of emergency management. Course instruction follows and meets guidelines established by FEMA and DHS. (Fall Semester)

EM 220 Management of Volunteers 3 credits

Prerequisites: online FEMA courses: ICS 200, ICS 800.
This course offers training in identification of volunteer resources, as well as recruiting, assigning, training, supervising, evaluating and motivating volunteers. Also addressed will be coordination with volunteer agencies, Voluntary Organizations Active in Disaster (VOAD), and community based organizations such as church groups, food banks, professional organizations, and also includes business and industry. Special issues such as spontaneous volunteers, stress management, and legal issues of volunteers will be covered. (Spring Semester)

EM 230 Emergency Management Law and Ethics 3 credits

Prerequisites: online FEMA courses: ICS 200, ICS 800.
This course is an overview of the most important federal and state legislation that affects emergency management in various types of disasters. Upon completion, the student will have a good understanding of the laws that affect emergency managers, and also understand ethical dilemmas in emergency management. (Spring Semester)

EM 240 Mass Fatalities Incident Response 3 credits

Prerequisites: online FEMA courses: ICS 200, ICS 800.
This course addresses the essential elements of planning for, responding to, and recovering from a mass fatality incident. Students will be able to identify the roles and responsibilities of local, state, and federal officials, as well as public service, private sector and volunteer organizations. (Spring Semester)

EM 250 Emergency Management Capstone Project 4 credits

Prerequisites: online FEMA courses: ICS 200, ICS 800.
This project is an integrative project combined with an evaluation exercise designed by the student with the assistance of the faculty advisor. This is a capstone course which will provide the student with a thorough review of all theories, techniques, and management practices in the field of emergency management. The student will develop or update an emergency action plan for an organization within their community, along with development of an exercise to test the emergency response plan. (Spring Semester)

EMERGENCY MEDICAL SERVICES (EMS)

EMS 150 see ECP 200
EMS 155 see ECP 201
EMS 156 see ECP 202
EMS 160 see ECP 206
EMS 165 see ECP 204
EMS 166 see ECP 205
EMS 180 see ECP 148
EMS 221 see ECP 230
EMS 222 see ECP 231
EMS 240 see ECP 170
EMS 250 see ECP 235
EMS 265 see ECP 234
EMS 266 see ECP 236
EMS 270 see ECP 130
EMS 271 see ECP 250
EMS 272 see ECP 251
EMS 275 see ECP 216
EMS 275.5 see ECP 218
EMS 277 see ECP 246
EMS 279 see ECP 298
EMS 298 see ECP 298

ENGLISH (ENGL)

ENGL 251 see CRWR 110
ENGL 252 see CRWR 111
ENGL 270 see LING 270
ENGL 271 see CRWR 210
ENGL 272 see CRWR 211

ENVIRONMENTAL SCIENCES (ENSC)

ENSC 105NL Environmental Science 4 credits

Provides an overview of environmental science including: science, public policy and economics, ecosystems and ecological responses, and managing biological and physical resources (water, soil, forests, rangelands, air wildlife, minerals, etc.). Upon completion of this course, a student should have a strong foundation to make sound environmental decisions. Includes lab and a service component. (Spring Semester)

ENSC 196 Field Experience 1 credit

Prerequisite: instructor's consent.
Work, either paid or volunteer, involving supervised field and laboratory experiences in public or private agencies under the supervision of a full-time faculty member. Training involves the application of scientific principles in the work environment. Students must submit a proposal which must be approved by the supervising instructor, the supervisor from the outside agency, and the Division Chairperson. (Intermittently)

ENSC 245NL Soils 4 credits

This course is an introduction to chemical, physical, and biological properties of soil and soil's relationship to other natural resources. Interactions will be emphasized between soils and the larger forest, range, agricultural, wetland, and other freshwater ecosystems. (Spring Semester)

ENSC 272 Water Resources 4 credits

This course is an introduction to the physical, chemical, and biological properties of water and water's relationship to other natural resources within an ecosystem context. Issues of water quality and quantity will be examined as they relate to human use and other natural resources. (Spring Semester)

ENSC 290 Undergraduate Research 1-3 credits

Prerequisite: instructor's consent.
Undergraduate research under the supervision of a full-time faculty member. This course may be repeated for a total of 12 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

ENVIRONMENTAL STUDIES (ENST)

ENST 285 Environmental Policy and Impact Analysis 3 credits

This course is designed to impart an understanding of the Environmental Impact Assessment (EIA) process to those interested in land management. (Fall Semester)

HEAVY EQUIPMENT OPERATOR (EQOP)

EQOP 100 Commercial Truck Driver 4 credits

Commercial Truck Driving will assist students in gaining a working knowledge of information needed to obtain a Class "A" CDL learner's permit through classroom instruction. The class also includes simulator and backing practice, shop time, and the driving experience necessary to pass the pre-trip, skills, and driving exam for the Montana Class "A" CDL. The lab exercises are designed to provide students with the driving skills in a working environment. Loading and dumping trucks, load procedures and practices, and transport of heavy equipment are emphasized in preparation for an entry level job in "truck driving." (Intermittently)

EQOP 101 Commercial Driver's License (Bus) 3 credits

Prerequisite: Montana State Driver's License.
This course will assist students to gain the knowledge and information needed to obtain a Class "B" CDL learner's permit through classroom instruction. The course also includes vehicle safety inspections, backing techniques, and the driving experience necessary to pass the pre-trip, skills, and driving exam for the Montana Class "B" CDL with passenger and school bus endorsements. The lab exercises are designed to provide students with driving skills in a working environment including town, open road, and mountain driving. First Aid, CPR, and handicap lift operations are embedded in the curriculum. (Intermittently)

EQOP 102 Commercial Truck Driver B to A Transition 2 credits

This course will assist students in gaining a working knowledge needed to extend Class "B" skills to Class "A" CDL learner's permit through classroom instruction. This course also includes pre-trip, backing practice, and the driving experience necessary to pass the pre-trip, skills, and driving exam for the Montana Class "A" CDL. The lab exercises are designed to provide students who possess the basic Class "B" license and driving skills with the additional driving skills required for a Class "A" combination vehicle / trailer. (All Semesters)

EQOP 105 Introduction to Heavy Equipment Operator 10 credits

This course will prepare students for the Montana Commercial Drivers License written exam and provide the 40 hours of heavy truck/trailer driving experience required in preparation for the CDL road test. In addition, the student will develop proficiency in equipment work site safety, grade stake interpretation, and soil composition and characteristics. The operation of dump trucks, tractors, skidsteers, bulldozers, and front-end loaders to the National Center for Construction Operating Engineers (NCCOE) Level III proficiencies will be presented and tested. (Fall Semester)

EQOP 110 Heavy Equipment Operator II 10 credits

Prerequisite: EQOP 105.
This course is a continuation of EQOP 105 designed to develop student proficiencies in equipment operational safety, soil stabilization and good grade determinations. The operation of backhoes, motor graders, excavators, and telescoping excavators to the National Center for Construction Operating Engineers Level III proficiency will be presented and tested. (Spring Semester)

EQOP 215 Heavy Equipment Operator Internship 10 credits

Prerequisites: EQOP 105, EQOP 110.
This course requires 400 hours of job site experience for the student employed as an intern equipment operator with a local business. (Summer Semester)

FILM (FILM)

FILM 105 Motion Picture Appreciation 1 credit

A mini-course designed to develop informed, critical understanding within students. Examines the language and historical impact of the motion picture industry from the silent era to contemporary filmmaking. Course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

FILM 111F Basic Videomaking 3 credits

Prerequisite: instructor's consent.
Basic videography teaches basic methodology of videomaking. Students will use tools and techniques of sound and motion to produce short videos for professional and personal growth in the medium. (Intermittently)

FORESTRY (FORS)

FORS 152 Sustainable Silviculture 4 credits

An introductory course in silvicultural practices aimed at management of land to a desired forested condition and the land's sustainable use in concert with other resources. (Spring Semester)

FORS 153 Forest Resource Calculations 3 credits

Prerequisite: appropriate placement test score, a grade of "SA" in M 061, a grade of "C-" or better in M 065, or instructor's consent.
Resource data manipulation for planning and analysis with a concentration on typical natural resource problems encountered in the daily work routine. (Fall Semester)

FORS 230 Forest Fire Management 3 credits

Prerequisite: instructor's consent.
Forest fire prevention, presuppression, suppression, and the uses of fire in land management practices. The measurement of fire weather and the factors that influence fire control. (Spring Semester)

FORS 232 Forest Insects and Diseases 3 credits

Prerequisite: BIOB 160 or FORS 152.
Identification, significance of and remedies for insect infestations and infectious and non-infectious diseases of forests and forest products. (Spring Semester)

FORS 251 Photogrammetry and Remote Sensing 3 credits

Prerequisite: SRVY 233 or SRVY 283.
The theory and application of photo and electro-optical remote sensing for mapping resources and developing information systems. (Spring Semester)

FORS 272 Inventorying for Adaptive Management and Restoration 4 credits

Prerequisites: NRSM 161, SRVY 135.
This course is an extension of knowledge gained in NRSM 161 in which resources are inventoried and sampled in support of restoration activities under state and federal law. (Fall Semester)

FORS 295 Field Experience: Logging Resources 2 credits

Prerequisite: instructor's consent.
Attendance at the annual Western Forestry Clubs Conclave held at various locations throughout the West. Educational tours focus on forest management techniques used by managers to solve local problems. (Spring Semester)

LANGUAGES: FRENCH (FRCH)

FRCH 101GH Elementary French I 5 credits

Study of the French language with attention to pronunciation, conversation, grammar, and reading. (Intermittently)

FRCH 102GH Elementary French II 5 credits

Prerequisite: FRCH 101 or instructor's consent.
Study of the French language with attention to pronunciation, conversation, grammar and reading. (Intermittently)

GRAPHIC DESIGN (GDSN)

GDSN 148 Digital Illustration I 3 credits
Formerly ART 148 Digital Illustration I

This course will focus on using the Macintosh computer as an illustrative/graphic design tool. Students will create graphics and illustrations using vector-based imaging software Adobe Illustrator. The use of design and illustration is emphasized. (Fall Semester)

GDSN 149 Digital Imaging I 3 credits
Formerly ART 153 Digital Imaging I

Prerequisite: CAPP 106.
Students will manipulate digital images obtained by capture through digital cameras or scanners for publication in print and on the World Wide Web. Topics include web color theory, bandwidth considerations, color correction, image retouching, and animated images. Adobe Photoshop or the currently accepted industry standard software will be used. Students must have access to a digital camera and/or scanner, as well as specified photo editing software, which is available on the Kalispell campus. (Fall and Spring Semesters)

GDSN 200 Introduction to Desktop Publishing 3 credits
Formerly ART 149 Digital Publishing

Students will prepare professional layouts ready for print by exploring topics such as page layout, electronic composition, text and graphic entry using Adobe InDesign. Students will understand how to apply basic design concepts to the presentation of informative or persuasive material by creating brochures, CD covers, posters and book covers. (Spring Semester)

GDSN 247 Digital Portfolio Preparation 4 credits
Formerly ART 247 Digital Portfolio Preparation

Prerequisite: GDSN 250.
Students develop a digital portfolio to showcase their graphic skills and techniques in preparation for the job market. Students design an interactive interface, compile and package their previously developed content into a professional quality portfolio. Students also develop a resume and learn interviewing techniques. (Spring Semester)

GDSN 248 Digital Illustration II 3 credits
Formerly ART 248 Digital Illustration II

Prerequisite: GDSN 148.
Adobe Illustrator will help students generate new images or convert bit-mapped images in PostScript. Quality levels needed for electronic output will be evaluated. Topics include: printing, separations, working with graphics from multiple applications, and production of web graphics. Students will create more complicated illustration and projects using advanced Adobe Illustrator techniques. (Spring Semester)

GDSN 249 Digital Imaging II 3 credits
Formerly ART 249 Digital Imaging II

Prerequisite: GDSN 149.
The concepts of intermediate/advanced digital imaging with Adobe Photoshop for visual, pictorial and graphic use in all media will be thoroughly covered. Students will learn effective image creation for print, motion graphics, publications and internet for effective visual communications. (Spring Semester)

GDSN 250 Graphic Design I 3 credits
Formerly ART 144 Design for Graphic Communications

This course provides an overview of graphic arts, which encompasses computer-based document layout, composition, typesetting, illustration, scanning, image modification, reproduction and distribution. It also explores the history and theory of effective mass communication from prehistoric cave art to invention of the printing press and modern graphic communication techniques using computers and the internet. The course examines communication models revolving around imagery, type, delivery systems and technology. The student will be able to understand and establish the effects of a clear visual message. Learning modules include slide shows, field trips, guest speakers, discussion, lectures and hands-on application with computers and the internet to promote an understanding of graphic communications and visual messages and their impact on society. (Fall Semester)

GDSN 267 3D Animation - Modeling I 4 credits
Formerly ART 267 3D Animation and Modeling

Prerequisite: GDSN 149.
The purpose of the course is to introduce students to 3D and animation roles in a range of industries, such as: television graphics, game design and visual effects design. This course will give students an introduction to 3D animation and modeling. Autodesk Maya, or the currently accepted industry standard software will be used. (Fall Semester)

GDSN 268 3D Animation - Modeling II 4 credits
Formerly ART 268 3D Animation and Modeling II

Prerequisite: GDSN 267.
The purpose of the course is to build upon fundamental techniques to create professional quality imagery and motion. Students will learn advanced modeling techniques. A large portion of the course will focus on a group project where students will create an original animation. Autodesk Maya, or the currently accepted industry standard software will be used. (Spring Semester)

GDSN 274 Portfolio Presentation 1 credit
Formerly ART 274 Portfolio Presentation

Prerequisite: instructor's consent.
Exploration of techniques and formats used for the documentation and presentation of 2D and 3D artworks. Film, digital and Web based technologies will be used. Students will learn how to create and present portfolios of artwork. (Spring Semester)

GEOSCIENCE: GEOLOGY (GEO)

GEO 100NL Introduction to Earth Science 4 credits

A survey, non-sequence course designed for the non-science major. Subjects include origin and history of the earth and solar system; Earth materials (minerals and rocks), action of wind, water and ice on the Earth's surface; landforms and mountain-building processes; the physical ocean environment. Labs stress the application of lecture topics. (Fall and Spring Semesters)

GEO 101NL Introduction to Physical Geology 4 credits

Basic concepts of earth materials and processes - minerals, sedimentary, igneous and metamorphic rocks, the rock cycle, weathering, erosion and development of landforms. Introduction to plate tectonics, volcanism, mountain building, continental structure, evolution and structural geology. Lab exercises to illustrate all aspects of lectures. (Spring Semester)

GEO 130N Geology of Northwest Montana 3 credits

Lectures and field trips designed to acquaint the student with the geologic history, rock types, structural features, landforms, and natural resources of Northwest Montana. Field trips in the Flathead and Mission Valleys and Glacier Park. (Fall and Summer Semesters)

GLACIER INSTITUTE (GLAC)

GLAC 191 Special Topics 1-3 credits

In partnership with FVCC, the Glacier Institute provides an array of field-based educational courses focused on the natural continent ecosystem. (Intermittently)

GEOSCIENCE: GEOGRAPHY (GPHY)

GPHY 111NL Introduction to Physical Geography 4 credits

Introduction to physical earth systems - meteorology, soils, vegetation types and distribution, oceanography, landforms. Focus on the use of geographic tools and analysis to understand spatial relationships of physical and biological phenomena on Earth, and how these relationships affect humans. (Fall Semester)

GPHY 121GA Human Geography 3 credits

A topical approach to geographic analysis of humans and their environment, including population, migration, culture, development, industry, urban patterns. Uses natural science concepts to understand human behavior. Focus is on key issues within a geographic framework, answering where and why. (Spring Semester)

GPHY 141GA Geography of World Regions 3 credits

A survey of world geographical regions, including the unique physical environment, population and settlement patterns, cultural diversity, political systems and economic and social status. Focus is on globalization, its effect on the region's environment, politics and economics, and how the regions effect globalization trends. (Fall and Spring Semesters)

GPHY 246G Geography of North America 3 credits

An in-depth examination of North America (U.S. and Canada) that focuses on the spatial arrangement and interaction of physical, cultural, economic and social elements that shape the unique identity of this region. (Intermittently)

GPHY 247 Geography of the Pacific Northwest 3 credits

An in-depth look at the physical and socioeconomic characteristics of Washington, Oregon, Idaho and western Montana, with particular emphasis on the regional economy, resource problems and policies. (Intermittently)

LANGUAGES: GERMAN (GRMN)

GRMN 101GH Elementary German I 5 credits

Study of the German language with attention to pronunciation, conversation, grammar, and reading. (Intermittently)

GRMN 102GH Elementary German II 5 credits

Prerequisite: GRMN 101.
Study of the German language with attention to pronunciation, conversation, grammar, and reading. (Intermittently)

HEALTH ENHANCEMENT (HEE)

HEE 220 Introduction to Physical Education 3 credits
Formerly HLTH 200 Foundations of Physical Education

This is a survey class dealing with all the introductory aspects of physical education, philosophies, history, objectives, career opportunities, adapted programs, sociology, psychology, physiology of sport. (Fall Semester)

HEE 233 Health Issues of Children and Adolescents 3 credits
Formerly HLTH 230 School Health

This course focuses on the major health issues affecting school age children in the United States and the policies and programs aimed at improving the health of this population. Topics include the role of state and local boards in authorizing school health promotion, school health curriculum design, health lesson plans, and teaching methods appropriate for health concepts. (Fall and Spring Semesters)

HEALTH (HLTH)

HLTH 101 see HTH 101
HLTH 200 see HEE 220
HLTH 201 see ECP 100
HLTH 202 see ECP 104
HLTH 203 see HTH 110
HLTH 205 see AHAT 210
HLTH 210 see KIN 201
HLTH 215 see KIN 215
HLTH 230 see HEE 233

HONORS (HONS)

HONS 251HA Honors: Humanities/ Social Sciences-A 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major theories of Social Sciences-A (Anthropology, Psychology, Sociology) coordinated and examined through works of literature. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 252HQ Honors: Humanities/ Mathematics 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes in the humanities coordinated and examined through mathematical concepts utilizing appropriate language and symbolism. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 253HN Honors: Humanities/Science 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the humanities coordinated and examined through one or more of the sciences. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 254AQ Honors: Social Sciences-A/ Mathematics 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the Social Sciences-A (Anthropology, Psychology, Sociology) coordinated and examined through mathematics. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 255AN Honors: Social Sciences-A/ Science 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the Social Sciences-A (Anthropology/Psychology/Sociology) coordinated and examined through one or more of the sciences. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 256NQ Honors: Science/Mathematics 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the sciences coordinated and examined through mathematics. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 257HB Honors: Humanities/ Social Sciences-B 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of Social Sciences-B (Economics, History, Political Science) coordinated and examined through the humanities. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 258NB Honors: Science/ Social Sciences-B 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the Social Sciences-B (Economics, History, Political Science) coordinated and examined through themes of the sciences. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 259QB Honors: Mathematics/ Social Sciences-B 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the Social Sciences-B (Economics, History, Political Science) coordinated and examined through mathematical concepts. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 260FA Honors: Fine Arts/ Social Sciences-A 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the Social Sciences -A (Anthropology, Psychology, Sociology) coordinated and examined through the fine arts. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 261FB Honors: Fine Arts/ Social Sciences-B 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the Social Sciences-B (Economics, History, Political Science) coordinated and examined through the fine arts. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity.(Intermittently)

HONS 262FN Honors: Fine Arts/Science 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the sciences coordinated and examined through the fine arts. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 263FQ Honors: Fine Arts/Mathematics 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the fine arts coordinated and examined through mathematics. Skills in critical reading/analysis and the development of ideas through argument, writing, and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 264GH Honors: Global Issues/ Humanities 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the humanities coordinated and examined through global perspectives, ethnocentrism and cultural pluralism. Skills in critical reading/analysis and the development of ideas through argument, writing and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 265GQ Honors: Global Issues/ Mathematics 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of global perspectives, ethnocentrism and cultural pluralism coordinated and examined using quantitative interpretations. Skills in critical reading/analysis and the development of ideas through argument, writing and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 266GA Honors: Global Issues/ Social Sciences-A 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of Social Sciences-A (Anthropology, Psychology, Sociology) coordinated and examined through global perspectives, ethnocentrism and cultural pluralism. Skills in critical reading/analysis and the development of ideas through argument, writing and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 267GB Honors: Global Issues/ Social Sciences-B 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of Social Sciences-B (Economics, History, Political Science) coordinated and examined through global perspectives, ethnocentrism and cultural pluralism. Skills in critical reading/analysis and the development of ideas through argument, writing and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 268GF Honors: Global Issues/ Fine Arts 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of major themes of the fine arts coordinated and examined through global perspectives, ethnocentrism and cultural pluralism. Skills in critical reading/analysis and the development of ideas through argument, writing and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HONS 269GN Honors: Global Issues/Science 4 credits

Prerequisite: acceptance into the Scholars Program.
Title will vary. This course involves critical analysis of global perspectives, ethnocentrism and cultural pluralism coordinated and examined using major themes in the sciences. Skills in critical reading/analysis and the development of ideas through argument, writing and oral communication will be utilized in order to engage student's knowledge, imagination and creativity. (Intermittently)

HUMAN SERVICES (HS)

HS 100A Introduction to Human Services/ Social Work 3 credits

Prerequisites: WRIT 101 or satisfactory placement test scores on the reading and writing section.
This course is an overview and orientation to the field of human services and related helping fields. Students will be able to identify basic helping skills and areas of knowledge needed for working with people. Review of theoretical perspectives, careers, social policies, issues, and controversies in the field of Human Services. (Fall and Spring Semesters)

HS 210 Case Management 2 credits

Prerequisite: HS 100 or HS 250 or PSYX 100.
This course will introduce the student to service planning and the continuum of care in Human Services and Addiction Counseling. Students will understand and demonstrate activities associated with case management such as consumer identification, outreach, prevention relapse, assessment of needs, service planning, advocacy referral, etc. (Intermittently)

HS 250 Interviewing/Crisis Intervention 4 credits

Prerequisite: HS 100 or PSYX 100.
Basic interviewing and interpersonal communication skills will be introduced and practiced. As basic skills are mastered, the class will move into the skills associated with counseling and crisis intervention. Theoretical and conceptual information related to effective intervention will be presented. Practical guidelines and techniques that will apply to a wide variety of intervention settings will be discussed and practiced. (Fall Semester)

HS 279 Legal, Ethical, and Professional Issues in Human Services 3 credits

Prerequisites: HS 100, PSYX 100 or instructor's consent.
An overview of the ethical and professional issues associated with the provisions of social services. Values, morality, and the major ethic issues facing practitioners will be addressed. (Spring Semester)

HS 294 Placement Seminar I 1 credit

Corequisites: HS 295-Field Experience I or instructor's consent.
This seminar is for the monitoring of the student's field experience. Students' participation in the field is reviewed and evaluated. Specific topics and issues related to specific placements will be addressed. Students will develop their own specific educational goals for placement. This course may be repeated for a total of two credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

HS 294 Placement Seminar II 1 credit

Corequisites: HS 295-Field Experience II or instructor's consent.
This seminar is for the monitoring of the student's field experience. Students' participation in the field is reviewed and evaluated. Specific topics and issues related to specific placements will be addressed. Students will develop their own specific educational goals for placement. This course may be repeated for a total of two credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

HS 294 Placement Seminar III 1 credit

Corequisites: HS 295 - Field Experience III or instructor's consent.
This seminar is for the monitoring of the student's field experience. The student's experience is reviewed and evaluated to ensure student learning is occuring. Specific topics and issues related the placement will be explored. Stuents will develop their own specific educational goals for the placement. This course may be repeated for a total of two credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

HS 295 Field Experience I 3 credits

Prerequisites: HS 100 or HS 250 or PSYX 100 or instructor's consent.
Corequisite: HS 294-Placement Seminar I.
The Field Experience provides the student with the opportunity take academic knowledge gained through his/her course work and apply the knowledge in a real agency. The student is provided with an environment to discuss and apply learning in various situations. Placements are arranged to allow the student to develop and practice learned competencies of knowledge gained in academic classes to real life settings and problems. This course may be repeated for a total of six credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course.
(Fall and Spring Semesters)

HS 295 Field Experience II 3 credits

Prerequisites: HS 100 or HS 250 or PSYX 100 and instructor's consent.
Corequisite: HS 294-Placement Seminar II.
The Field Experience provides the student with the opportunity take academic knowledge gained through his/her course work and apply the knowledge in a real agency. The student is provided with an environment to discuss and apply learning in various situations. Placements are arranged to allow the student to develop and practice learned competencies of knowledge gained in academic classes to real life settings and problems. This course may be repeated for a total of six credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

HS 295 Field Experience III 3 credits

Prerequisites: HS 100 or HS 250 or PSYX 100 or PSYX 233, instructor's consent.
Corequisite: HS 294-Placement Seminar III.
The Field Experience provides the student with the opportunity take academic knowledge gained through his/her course work and apply the knowledge in a real agency. The student is provided with an environment to discuss and apply learning in various situations. Placements are arranged to allow the student to develop and practice learned competencies of knowledge gained in academic classes to real life settings and problems. This course may be repeated for a total of six credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

HISTORY: AMERICAN (HSTA)

HSTA 101B American History I 4 credits

A comprehensive introductory history of Colonial, Revolutionary, Jeffersonian, Jacksonian, and Civil War era America. (Fall Semester)

HSTA 102B American History II 4 credits

A comprehensive introductory history of America from the Gilded Age (1870's) to the present. (Spring Semester)

HSTA 255B Montana History 3 credits

An examination and evaluation of the political, social, cultural, economic, and geographic heritage of Montana as a territory and a state. (Fall and Spring Semesters)

HISTORY: WORLD (HSTR)

HSTR 101B Western Civilization I 4 credits

Prehistoric days to the mid-17th century, with emphasis on the political, social, cultural, and economic aspects of the great civilizations of the earlier period, and the revolutions in politics, commerce, industry, and science which ushered in the modern era. (Fall Semester)

HSTR 102B Western Civilization II 4 credits

Early 1,500's to the present with emphasis on the rise of national systems, and the on-going revolutions in Western Civilization with attendant philosophic, economic, and political conflicts and influences. (Spring Semester)

HSTR 284G Environmental History 3 credits

An introduction to the Western Civilization background, American development, and current global implications of environmental issues. (Intermittently)

HEALTH (HTH)

HTH 101 Opportunities in the Health Professions 2 credits
Formerly HLTH 101 Opportunities in Health and Medical Careers

This course is intended to offer students an opportunity to explore the world of health care. Through research, discussion groups, and observations, students will explore various career paths in health care. Students will identify the educational requirements for various health care careers. Some of the topics to be discussed are characteristics of health care personnel, certifications and licensing, health care systems, health care philosophy, law and ethics pertaining to health care, client advocacy, current issues and trends in health care and economic issues in health care. (Fall and Spring Semesters)

HTH 110 Personal Health and Wellness 3 credits
Formerly HLTH 203 Health for the Individual

The study of health principles enabling the student to make the essential choices for a more healthful lifestyle. (Fall Semester)

HTH 205 Drugs Issues for Education 3 credits
Formerly PSYX 150 Drugs and Society

A study of substance use and abuse in society, relative to controlled substances in general, and to specific classes of drugs as well. Personal and societal attitudes and responses toward the drug phenomenon are explored. (Fall and Spring Semesters)

HUMANITIES (HUM)

HUM 261H see LSH 261H
HUM 262H see LSH 262H

HEATING/VENTILATION/AIR CONDITIONING (HVAC)

HVAC 101 see HVC 101
HVAC 120 see HVC 120
HVAC 131 see HVC 130
HVAC 141 see HVC 140
HVAC 231 see HVC 230
HVAC 241 see HVC 240
HVAC 251 see HVC 250
HVAC 264 see HVC 295

HEATING, VENTILATING, AIR CONDITIONING, AND REFRIGERATION MAINTENANCE TECHNOLOGY (HVC)

HVC 101 HVAC Fundamentals 2 credits
Formerly HVAC 101 HVAC Fundamentals

This course is designed to explore the common aspects of heating, ventilation, air conditioning, (HVAC) technology. Discussion will focus on such topics as heat transfer methods, basic terminology and definitions, industry specific safety topics, and applied physics for HVAC systems. This is the required foundation course for students enrolled in the HVAC Program. (Internet course only.) (Fall and Spring Semesters)

HVC 120 Boiler Operator Certification 2 credits
Formerly HVAC 120 Boiler Operator Certification

This is an introductory course in heating and power low pressure boiler systems. It will introduce the concepts and terminology of commercial, industrial, and residential boiler systems and emphasize troubleshooting and maintenance procedures employed in maintaining hot water systems. Area of focus include boiler fundamentals, boiler types, steam and hydronic boilers, fuels and burner types, valve identification, safety and relief valves, water level controllers, and industry safety issues associated with boiler accidents. The course will prepare students to take the Boiler Operator license exam. (Fall and Spring Semesters)

HVC 130 HVAC Electrical 3 credits
Formerly HVAC 131 HVAC Electrical I

Basic electrical safety and electrical theory such as Ohms Law, circuit schematic symbols, and circuit characteristics, will be discussed as it specifically applies to DC and AC circuits in the HVAC industry. Additional theory will be presented regarding magnetism as it applies to AC power generation. The course will also include discussions and calculation of the effects of capacitive, induction, and resistive circuits. The course concludes with an overview of transformers. This course is a prerequisite to HVC 230. Students enrolled in the HVAC program are required to take this course. (Internet course only.) (Fall and Spring Semesters)

HVC 131 Electrical and Refrigeration Lab 1 credit

This is a laboratory course that covers service of electrical circuits and service of refrigeration units. There is an emphasis on troubleshooting. (Fall Semester)

HVC 140 HVAC Systems I 3 credits
Formerly HVAC 141 HVAC Systems I

Prerequisite: HVC 101.
This course is a logical continuation of HVC 101. Topics covered will include human comfort, psychometrics, introduction to basic air distribution systems, air flow measurement calculations and balance considerations. The course will culminate with the student doing a basic heat load calculation for a residential structure and selecting heating equipment to be installed. Students enrolled in the HVAC program are required to take this class. (Internet course only.) (Fall Semester)

HVC 198 Internship: Basic HVAC 1 credit

Prerequisite: advisor's consent.
This course offers a supervised, structured learning experience at an approved HVAC business facility. Students will receive an orientation to some basic duties and tasks performed by a technician, and will be assigned some very basic tasks expected of an entry-level employee. Completion of these tasks, under the supervision of an experienced technician, will enhance the student's knowledge of the day-to-day work of a technician in this field. Prior to placement at an internship site, students will attend an internship orientation to learn the application and internship process.(Fall Semester)

HVC 230 HVAC Electrical II 3 credits
Formerly HVAC 231 HVAC Electrical II

Prerequisite: ELCT 100.
Areas of study will include basic control circuits, sequency of operation of basic HVAC applications, electric motor theory and specific information on HVAC electrical component devices. The main focus of this course is the various types of AC electric motors and starting components used by single-phase and three-phase motors found in residential and light commercial applications. Students enrolled in the HVAC program are required to take this course. (Internet course only.) (Spring Semester)

HVC 240 HVAC Systems II 3 credits
Formerly HVAC 241 HVAC Systems II

Prerequisite: HVC 140.
This course is a continuation of HVC 140. Topics covered include duct sizing with activities based on previous work in HVC 140. Additional activities will include a residential cooling load calculation and selection of cooling equipment. The course will conclude with an overview of accessories utilized in a residential HVAC system. Students enrolled in the HVAC program are required to take this class. (Internet course only.) (Spring Semester)

HVC 250 HVAC Refrigeration I 3 credits
Formerly HVAC 251 HVAC Refrigeration I

Prerequisite: HVC 140.
This course provides an introduction to the mechanical compression refrigeration cycle and the necessary components. Students will be introduced to the common terms and definitions of the cycle as well as what, when, and where to measure temperatures and pressures for diagnostics. An in-depth discussion of the four major components (i.e.; Compressor, Condenser, Metering Device, and Evaporator) will conclude with all of them working together in a hypothetical system moving heat energy. (Internet course only.) (Spring Semester)

HVC 295 HVAC Field Experience I 10 credits
Formerly HVAC 264 HVAC Field Experience I

Prerequisite: instructor's consent.
This course is designed to provide students with career-related experience and an opportunity to benefit from those experiences. The field experience (the job) gives the student the chance to apply the skills and knowledge gained in the actual workplace. (Intermittently)

HVC 298 Internship: Advanced HVAC 1 credit

Prerequisite: HVC 198 and advisor's consent.
This course offers a supervised, structured learning experience at an approved HVAC business facility. Students will receive an orientation to some advanced duties and tasks performed by a technician, and will be assigned to assist in some of these tasks. Completion of these tasks, under the supervision of an experienced technician, will enhance the student's knowledge of the day-to-day work of a technician in this field. (Spring Semester)

INTEGRATED AGRICULTURE AND FOOD SYSTEMS (IAFS)

IAFS 110 Principles of Crop Science 3 credits

Prerequisites: BIOB 110 and BIOB 111.
A study of agronomic and horticultural crop production practices. Topics covered include environmental effects on crop physiology, growth and yield, variety selection, plant propagation methods, plant breeding, tillage, seedbed preparation, nutrient and water management, cultural practices, pest control, harvest and postharvest handling. (Spring Semester)

IAFS 200 Soil Nutrient Management 3 credits

Prerequisite: ENSC 245.
Covers the principles of soil nutrient management as they relate to crop production. The role of soil physical, biological and chemical processes in soil quality will be emphasized. Students will be introduced to a variety of cultural and chemical soil management practices and will learn practical soil management techniques in the laboratory. (Spring Semester)

IAFS 202 Organic Crop Production: Fall 3 credits

This course is designed to teach students the fundamentals of organic vegetable and herb production in the fall months. Students will work in greenhouse and field settings, applying crop production principles on the campus farm. Topics covered will include pest management, harvesting, fall seeding, marketing, planning, decision-making, and record keeping. (Fall Semester)

IAFS 202 Organic Crop Production: Spring 3 credits

This course is designed to teach students the fundamentals of organic vegetable and herb production in the spring months. Students will work in groups and independently in greenhouse and field settings, applying learned crop production principles to growing food on the campus farm. Topics covered will include variety selection, seeding and plant propagation, seedbed preparation, pest management, planning, farm management, and record keeping. (Spring Semester)

IAFS 230 Integrated Pest Management 5 credits

This course will provide comprehensive coverage of the classification, growth, structure, life cycles, identification and control of selected weeds, insects, and diseases of major agricultural crops. Principles of and practical approaches to integrated pest management will be emphasized, including crop scouting, diagnosis, decision-making, non-chemical and chemical control of specific pests, and pesticide safety. (Spring Semester)

IAFS 238 Farm Maintenance and Equipment 4 credits

An introduction to basic maintenance of farm facilities and equipment, as well as the use of common farm machinery and tools. Topics include carpentry, wiring, plumbing, fencing, and calculating costs and materials, the selection, safe operation and maintenance of tractors, tillage and harvest equipment, irrigation systems, and hand tools. (Spring Semester)

IAFS 246 Agriculture in Montana Field Course 2 credits

This field-based course compares and contrasts agricultural operations across Montana, with an emphasis on large-scale operations. Students will gain an appreciation of the choices, opportunities, and challenges facing conventional, diversified and organic producers. (Summer Semester)

IAFS 298 Internship: Agricultural Enterprise 3 or 4 credits

Prerequisites: IAFS 298-Internship: Campus Farm, completion of 30 semester credits with a grade point average of 2.0 or better, and advisor's consent.
This course offers a supervised, structured learning experience at an approved agricultural business/organization. Students will receive training related to their chosen field of interest, enhance their academic learning, and gain exposure to the workplace. Prior to placement at an internship site, students will attend an internship orientation to learn the application and internship process. (Fall and Spring Semesters)

IAFS 298 Internship: Campus Farm 3-6 credits

This course offers a supervised, structured learning experience at the FVCC campus farm. Students will receive hands-on training in all aspects of this small-scale farming operation, participating in activities that complement their coursework in crop production and agribusiness. (Summer Semester)

IAFS 299 Capstone: Integrated Agriculture and Food Systems 3 credits

Prerequisites: completion of 45 semester credits with a grade point average of 2.0 or better, and instructor's consent. Corequisite: BGEN 280.
This course integrates plant, soil and livestock management principles to help the student develop a unified understanding of an agricultural system. In this course, students will develop a management plan for a mixed farm, proposing strategies for seed and livestock acquisition, soil fertility management, crop and animal management, and record keeping. The course helps link theoretical class work with the practical application of concepts in the context of operating an integrated agricultural enterprise. (Spring Semester)

INDIVIDUAL DEVELOPMENT (ID)

ID 31~ Reading Strategies for Success 3 credits

Instruction and reinforcement in reading strategies, literal and inferential comprehension skills, analysis skills and techniques for reading illustrations. Allows students to adjust personal reading styles as needed for materials encountered in college. This course may be repeated for a total of six credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ID 51~ College Reading Strategies 3 credits

Prerequisite: instructor's consent.
This course offers an overview of the concepts and strategies needed to meet the demands of reading college level materials with success. Emphasis will be placed on specific reading strategies based on critical thinking needed in most subject area courses. This course is especially beneficial for the individual who has been away from textbook reading for a period of time. This course may be repeated for a total of six credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

ID 61~ Personalized Language Arts 1-3 credits

Provides individualized instruction in any of the language arts skills needed to enhance student success in college work. Students can enroll in this lab-based course at any time in the semester prior to the final drop/add date. Individual contracts will be developed and will vary according to student need. This course may be repeated for a total of six credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

ID 100 College Success Strategies 2 credits

This course is intended for students entering higher education for the first time. It will provide information, experience and activities designed to acquaint students with resources and learning opportunities available at FVCC. Students will learn how to succeed in college, will examine and clarify personal, academic, and career choices. (Fall and Spring Semesters)

ID 101 Transition to College 1 credit

This course is intended for students entering higher education for the first time. It will provide information, experience and activities designed to acquaint students with resources and learning opportunities available at FVCC. Students will learn how to succeed in college and will examine and clarify personal, academic, and career choices. (Fall and Spring Semester)

ID 102 Transition to College II 1 credit

This is a companion course for second semester Learning Communities where students will refine their academic and career goals and develop the ability to self-advocate. It provides additional information, experience, and activities designed to help students access the resources and learning opportunities available at FVCC. (Intermittently)

ID 110 Career Awareness 2 credits

A must class for the undecided, general studies student, or people who are considering a career change. Learn to explore and evaluate career options and to set career goals consistent with personal values, needs, interests, and skills. Students establish a career plan and develop job search skills through the use of personal inventories and computerized search systems. Emphasis will be placed on developing skills that enable students to continue this process throughout life. (Fall and Spring Semesters)

ID 120 Employment Strategies 1 credit

This course introduces students to up-to-date, effective job search methods. Students will learn how to research employers, find job leads, develop job search tools and interview successfully, using both written and electronic techniques. (Fall Semester)

INTERDISCIPLINARY STUDIES (IDS)

IDS 135C Thinkering: How to Problem Solve 3 credits

This course explores general problem-solving skills, as well as written and verbal communications surrounding the tasks of understanding and articulation of a problem, devising a plan, carrying out the plan and looking back. Students work in teams on a variety of concrete problems throughout the semester. Projects focus individually on exploration, conceptualization, research, design, implementation and analysis. The course also considers business aspects such as demand, budgeting and monetization of product. This is an interdisciplinary, hands-on and highly communicative class. (Fall and Spring Semesters)

INDUSTRIAL TECHNOLOGY (IT)

IT 160 see MCH 120
IT 175 see DDSN 114
IT 178 see MCH 124
IT 179 see DDSN 135

LANGUAGES: ITALIAN (ITLN)

ITLN 026~ Basic Italian Conversation 3 credits

Students can enter at any level. This course will focus on understanding and using conversational Italian. Course may be repeated for a total of six credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

ITLN 101GH Elementary Italian I 5 credits

This course's primary goal is to bring students directly in touch with the language and culture of contemporary Italy. The course format and structure will enable students to acquire solid grammar and conversational skills but also get acquainted with the Italian culture. (Intermittently)

ITLN 102GH Elementary Italian II 5 credits

Prerequisite: ITLN 101 or equivalent.
This course will broaden your Italian language skills and deal more in-depth with Italian culture and history. (Intermittently)

ITLN 201GH Intermediate Italian I 4 credits

Prerequisite: ITLN 101, ITLN 102, or instructor's consent.
This course broadens your language skills acquired in first-year Italian, by offering a thorough review of grammar, supplemented by a number of readings and communicative activities. Students will deepen their knowledge of Italian language and culture, as well as greatly increase their language proficiency. (Intermittently)

ITLN 202GH Intermediate Italian II 4 credits

Prerequisite: ITLN 201 or instructor's consent.
A continuation of ITLN 201, this course will continue to broaden your Italian language skills and deal with current events in Italian culture through incorporation of media and some Italian literature. (Intermittently)

INFORMATION TECHNOLOGY SYSTEMS (ITS)

ITS 164 Networking Fundamentals 3 credits

Prerequisite: CAPP 106 or instructor's consent.
This course is an introduction to networking fundamentals with both lecture and hands-on activities. Topics include the OSI model and industry standards, network topologies, IP addressing (including subnet masks), and basic network design. (Intermittently)

ITS 210 Network Operating System: Desktop 3 credits

Prerequisite: CAPP 106 or instructor's consent.
This course examines the role of operating system software and other user interfaces. The primary focus will be on the installation, operation, maintenance, and system/diagnostic utilities of microcomputer operating systems in a multitasking operating systems environment. (Intermittently)

ITS 212 Network Operating System: Server Admin 3 credits

Prerequisite: CAPP 106 or instructor's consent.
Emphasis is on management and use of common network operating systems. Topics and activities include product overview, installation, administration, problem resolution, configuration of security parameters and user accounts, console operations, and use of the network. (Intermittently)

ITS 216 Network Operating System: Directory Services 2 credits

Prerequisite: ITS 212.
This course looks at the planning and implementation processes, installing, maintaining, and troubleshooting Active Directory found within MS Windows Server 2003. Group and security policy creation and implementation will also be developed. (Intermittently)

ITS 218 Network Security 3 credits

Prerequisite: CAPP 106 or instructor's consent.
This hands-on and theory-based course will study computer and network security. Topics will include threats; policy creation; implementing controls; securing hardware, networks, and operating systems; defending against attacks; and intrusion detection systems and practices. (Intermittently)

ITS 220 Fundamentals of Wireless LANS 3 credits

Prerequisite: CAPP 106 or instructor's consent.
This hands-on and discussion based course will include IEEE 802.11 standards, site surveys, planning, implementing, troubleshooting, and maintaining a wireless LAN. (Intermittently)

ITS 221 Project Management 3 credits

Prerequisite: CAPP 106 or instructor's consent.
The purpose of this course is to provide students with the tools to successfully manage a web site project. Topics covered include managing a project's scope, cost, quality, and risk. Focus is on initiating, planning, executing, controlling, and closing projects. Software tools available to help manage and report on the project's progress will also be explored. (Spring Semester)

ITS 224 Introduction to Linux 3 credits

Prerequisite: CAPP 106 or instructor's consent.
Emphasis is on management and use of common open source network operating systems. Topics and activities include product overview, installation, administration, problem resolution, configuration of security parameters and user accounts, console operations and use of the network. (Intermittently)

ITS 235 IT Design Lab 2 credits

Prerequisites or corequisites: ITS 212, ITS 220, ITS 258.
This is a capstone, controlled environment course allowing the students to plan a network, install software on clients and servers, attach to peripherals, apply security principles, and troubleshoot. Planning and documentation as a necessary component of information technology management will be included. (Intermitttently)

ITS 258 Routing and Switching 4 credits

Prerequisite: ITS 164.
This lab-based course will focus on network protocols, VLSM, router configuration, router IOS software management, routing protocols, access control lists, network address translation, LAN switching, and network design components. Troubleshooting in a network environment will be required. Objectives of the CCNA exam will be covered. (Intermittently)

ITS 280 Computer Repair and Maintenance 3 credits

Prerequisites: CAPP 106 or instructor's consent; ITS 210 preferred.
This course covers the basic to more advanced features of maintaining, troubleshooting, and repairing the PC as required for completion of the A+ Certification Exam. Topics include safety, memory management, operating systems, managing files, software and hardware replacement, upgrades, and installations. (Intermittently)

ITS 298 Internship/Cooperative Education 3 credits

Prerequisites: BMIS 270 and completion of 30 semester credits with a grade point average of 2.0 or better. Submission of an internship application.
This course offers a supervised, structured learning experience at an approved business / organization. Students will receive training related to their field of study, enhance their academic learning, and gain exposure to the workplace. Students will receive assistance in developing application materials and finding worksites meeting learning and legal criteria from the Career Development Coordinator. (All Semesters)

JOURNALISM (JRNL)

JRNL 100C see COMX 100C
JRNL 101C see JRNL 272C
JRNL 275 see JRNL 298

JRNL 111C College Publications I 3 credits

Prerequisite: JRNL 272, WRIT 101, or instructor's consent.
Students participate in publication of the student newspaper through reporting, writing, photography and/or layout design. Reporting and writing require assignments that include searching background information on stories, covering meetings, rewriting press releases and providing images to accompany stories. Photography requires photo documentation for stories. Layout design requires photo scanning and assembly of newspaper issues. (Fall Semester)

JRNL 112 College Publications II 3 credits

Prerequisite: JRNL 111, JRNL 272, WRIT 101 or instructor's consent.
Students participate in publication of the student newspaper through reporting, writing, photography and/or layout design. Reporting and writing require assignments that include searching background information on stories, covering a campus beat or topic, and providing images to accompany stories. Photography requires photo documentation for stories and feature assignments. Layout design requires photo scanning, assembly of newspaper issues and electronic delivery to printing press. (Spring Semester)

JRNL 211 Advanced Student Publications I 3 credits

Prerequisite: JRNL111, JRNL112, JRNL272, or instructor's consent.
Students will assume roles as senior writers and editors with corresponding responsibilities such as generating story ideas, doing investigative reporting pieces, writing in-depth features and editing new reporters' work. Photo editors will oversee all aspects of news photography from darkroom management to generating photo essay and maintaining photo library. Layout design requires photo-scanning, assembly of newspaper issues and electronic delivery to printing press. (Fall Semester)

JRNL 212 Advanced Student Publications II 3 credits

Prerequisite: JRNL111, JRNL112, JRNL272, or instructor's consent.
Student editors and senior writers will meet, oversee and set policy for paper. They will make all news assignments; follow-up with editing and assisting cub reporters with their stories; make decisions about editorial pages, special sections and issues; and they will completely design and lay out paper. Photo editors and advertising managers will work in conjunction with editorial staff. All editors will participate in the design and production of an annual FVCC literary edition. (Spring Semester)

JRNL 272C News Writing and Reporting 3 credits

Prerequisite: WRIT 101 or instructor's consent.
This course will introduce students to the concepts and techniques of news reporting, with an emphasis on writing for New Media. Students will be introduced to the basic journalism tools of interviewing, researching, and writing news for the World Wide Web and print publications. Students will write for the student publication, The Mercury News. (Fall and Spring Semesters)

JRNL 298 Internship 3 credits

Prerequisites: completion of 30 semester credits with a grade point average of 2.0 or better, including at least 6 credits in journalism, internship coordinator consent, and advisor's consent.
This course offers a supervised, structured learning experience at an approved business/organization. Students will receive training related to their field of study, enhance their academic training, and gain exposure to the workplace. Prior to placement at an internship site, students will attend an Internship Orientation to learn the application and internship process. (Fall and Spring Semesters)

KINESIOLOGY (KIN)

KIN 201 Basic Exercise Prescription 3 credits
Formerly HLTH 210 Basic Exercise Prescription

Prerequisite: HEE 220.
A dynamic course designed to familiarize students with the concepts of aerobic exercise and resistance training related to the areas of health, fitness, and performance. This course involves a combination of learning techniques, including lecture and hands-on activities. (Spring Semester)

KIN 203 Functional Training 2 credits
Formerly PE 200 Functional Training

In this course, students will develop a knowledge base of the variety of real world movements that the human body can generate, as well as exercises that can be utilized to improve the functionality of the human machine executing these movements. This course involves a combination of learning techniques including lecture and hands-on activities. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

KIN 215 Fitness Assessment Techniques 3 credits
Formerly HLTH 215 Practical Fitness Assessment Techniques

Prerequisites: BIOH 104, BIOH 105, HEE 220, HTH 110.
This course is designed to introduce students to the basic fitness assessment techniques and to provide an opportunity to develop assessment skills through hands-on laboratory experience. Discussions focus on background theory and rationale for each technique, assessment methodology and appropriate utilization of the generated information. (Spring Semester)

LINGUISTICS (LING)

LING 270 Introduction to Linguistics 3 credits
Formerly ENGL 270 Introduction to Linguistics

This course will introduce students to the field of modern linguistics and to the nature of language. Students will gain an understanding of the fundamentals of linguistics, including syntax, semantics, phonology, pragmatics, language change, and language acquisition. (Intermittently)

LITERATURE (LIT)

LIT 110H Introduction to Literature 3 credits

This introductory course focuses on the reading, enjoyment, and critical analysis of fiction, poetry and drama. Students will read world literature, as well as works of the American West, contemporary dramatists, minority writers, and works focusing on the lives of immigrants, expatriates, and first-generation Americans. (Fall Semester)

LIT 112H Introduction to Fiction 3 credits

This introductory course focuses on the reading, enjoyment, and critical analysis of the short story and the novel. Students will read world literature, as well as contemporary writers of the American West; minority writers; and writers focusing on the lives of immigrants, expatriates and first -generation Americans. (Spring Semester)

LIT 120H Poetry 3 credits

An introduction to the reading, enjoyment, interpretation, critical analysis, and appreciation of selected poetry. (Fall Semester)

LIT 206GH European Literature of the 20th Century 3 credits

Prerequisite: WRIT 101 or equivalent.
"The old country..." mysterious, exotic, sophisticated, and full of contradictions: yet a much romanticized and nostalgically remembered "home" for so many Americans. This lecture and discussion course will focus on great writings and films of 20th century Europe, and familiarize students with crucial events of European art and history. (Intermittently)

LIT 210H American Literature I 3 credits

A survey course designed to give students a broad overview of the evolving canon of influential literary works produced in America from approximately 1600 through 1865. Students will read a variety of exemplary texts from a historical perspective in order to critically analyze the formation of our American identity. (Fall Semester)

LIT 211H American Literature II 3 credits

Survey course designed to give students a broad overview of the evolving canon of influential works produced in American Literature from 1865 to the present. Students will examine a variety of authors including African-American, Native-American, Asian, and Hispanic writers, and will focus on increasing awareness of how historical, economic, social, and geographical concerns help to mold our unique American identity. (Spring Semester)

LIT 213H Montana Literature 3 credits

Students analyze Native American oral tales and examine past booms and busts: furs, exploration, cattle, mines and homestead leading to today. The journey covers 200+ years. Students evaluate historical time frames and differing viewpoints and examine Montana's ties to the larger world and the legacies of many cultures. They explore several genres: oral tales, diaries, letters, essay, stories, poems and drama/films. Discussion uses critical thinking to evaluate issues: environmentalism, colonialism, multicultural, aboriginal and women's rights, and Hollywood's impact on Montana. (Fall Semester)

LIT 216H American Short Story 3 credits

This course will trace the popular literary genre known as the short story from its inception in the early 19th century through the present. The course will examine the role of the short story in American history, and will focus on stories that reflect the various social, economic, and gender concerns of male and female authors from diverse ethnic backgrounds. (Spring Semester)

LIT 223H British Literature I 3 credits

This introduction to British writers and works begins with the ancient heroes and monsters in Beowulf and continues through the Middle Ages with readings from "The Canterbury Tales," as well as King Arthur and the Knights of the Round Table. The adventure continues during the Renaissance with "The Tragedy of Dr. Faustus," then moves on to a variety of works during the Restoration and 18th century: from the stinging satire, "Gulliver's Travels" to the hilarious comedy "She Stoops to Conquer." Literature read throughout the course will include a number of poems, essays, plays and stories. (Fall Semester)

LIT 224H British Literature II 3 credits

The course includes Romantic poets Woodsworth and Keats, Victorians Bronte, Tennyson, and Elizabeth Barret Browning as well as 20th century writers DH Lawrence, Virginia Woolf, Tom Stoppard and Seamus Heaney. (Spring Semester)

LIT 225H Shakespeare: Tragedy and Comedy 3 credits

In this course students will read, discuss and, if possible, see a presentation of selected tragedies and comedies: King Lear, Julius Caesar, The Tempest, A Midsummer Night's Dream and others. (Spring Semester)

LIT 226H Shakespeare: History and Tragedy 3 credits

In this course students will read, discuss and if possible, see a presentation of selected tragedies and history plays of Shakespeare: Hamlet, Othello, MacBeth, Henry IV, Part I, Richard II and others. (Fall Semester)

LIT 240H Bible as Literature 3 credits

This course begins with the premise that the books of the Bible are literary and cultural documents written by men for men, not theological tracts written or inspired by God. Students will read and analyze these texts as an anthology of literature that includes history, poetry, letters, apocalyptic literature, mythological material, prophetic books, law, and other genres. Emphasis will be upon the First Testament or Hebrew Bible (the Tanakh) and Revelation. In addition, problems of textual authorship, translation, redaction, and interpolation will be introduced. Material covered will also include modern archaeology's impact upon both biblical criticism and the historical accuracy of the biblical stories. (Spring Semester)

LIT 243 Women of the Bible: A Literary Approach 3 credits

This course will focus upon the important role biblical women played in the development of biblical history and the consequent status of women within the larger Judeo-Christian social and cultural milieu. Emphasis will be upon the Old Testament (or Hebrew Bible) with some investigation into the New Testament and the presence (or non-presence) of women there. Students will analyze what the Bible says, and does not say, about women and their role in society in ancient times and its effect upon women through the ages. With an emphasis upon, but not limited to, feminist scholarship of the last 25 years, the Bible will be examined as literature produced by humans for humans, a "literary" canon as opposed to a "theological" canon. Sexism, androcentrism, pagan sources, powerlessness, positive stages of women, and female symbolism will be discussed as will problems of textual authorship, translation, redaction, and interpolation. Material covered will include modern archaeology's impact upon both biblical criticism and the historical accuracy of the biblical stories. (Intermittently)

LIT 285H Mythologies 3 credits

A lecture and discussion class that explores the Greek and Roman mythologies, their plausibility, supposed purpose, and applications, historical and contemporary. (Fall and Spring Semesters)

LIT 286GH Comparative Mythology 3 credits

This course examines the fundamental principles and motifs present in mythologies from around the world. Students in this course will study eight mythic types: the mono-myth; shamanism; the concept of feminine and masculine principles; the four functions of mythology, and mythological symbolism. Each of these components will be examined through myths from Egyptian, Asian, African, Norse, European, Celtic, and Indigenous North and South American traditions. (Fall and Spring Semesters)

LIBERAL STUDIES AND HUMANITIES (LS)

LSH 261H Introduction to the Humanities Origins and Influences I 4 credits
Formerly HUM 261H Introduction to Humanities: Origins and Influences I

This course offers an interdisciplinary survey of human creative achievements from Prehistory through the Late Middle Ages. By examining major works of art, architecture, music, literature and philosophy, students will gain an awareness of human productivity and the historical contexts that provided its inspiration, as well as an enhanced appreciation of the rich cultural heritage that informs our own contemporary identity. (Fall Semester)

LSH 262H Introduction to the Humanities Origins and Influences II 4 credits
Formerly HUM 262H Introduction to Humanities: Origins and Influences II

This course offers an interdisciplinary survey of human creative achievements from Early Renaissance to Postmodernism. By examining major works of art, architecture, music, literature and philosophy, students will gain an awareness of human productivity and the historical contexts that provided its inspiration, as well as an enhanced appreciation of the rich cultural heritage that informs our own contemporary identity. (Spring Semester)

MATHEMATICS (M)

M 061~ Basic Mathematics 3 credits

Prerequisite: appropriate placement test score or Math Department consent.
This first-level mathematics course is devoted to instruction in basic skills necessary for advancement in the college math sequence. The course is self-paced and students work with the instructor to set and achieve the math skill level goals needed to meet academic, personal or vocational objectives. This course may be repeated for a total of nine credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (All Semesters)

M 065~ Prealgebra 3 credits

Prerequisite: appropriate placement test score, a grade of "SA" in M 061, or Math Department consent.
This course is designed for those students who need to improve their prealgebra skills in order to succeed in M 090. Topics include signed numbers, basic factoring, basic equation solving, an introduction to polynomials, square roots, basic graphing and basic exponent rules. (All Semesters)

M 090~ Introductory Algebra 4 credits

Prerequisite: appropriate placement test score, a grade of "C" or better in M 065, or Math Department consent.
This course provides an introduction to algebra. The course covers the topics of solving and graphing linear equations, solving systems of linear equations, introductory polynomials and factoring, basic function notation, and graphing and solving basic quadratics. Graphical and algebraic approaches to solving equations and application problems will be used throughout the course. (All Semesters)

M 095~ Intermediate Algebra 4 credits

Prerequisite: appropriate placement test score, a grade of "C" or better in M 090, or Math Department consent.
This course covers the topics of graphs of functions and inequalities. The course covers polynomial and rational functions, graphs of functions and inequalities, system of equations and inequalities, radical expressions and equations, quadratic functions, exponential and logarithmic functions. (All Semesters)

M 108 Business Mathematics 4 credits

Prerequisites: appropriate placement test score, CAPP 106 and a grade of "C" or better in M 065, or Math Department consent.
This course reviews the use of basic mathematical concepts as they apply to business, including a review of basic mathematical concepts and application of these concepts in cash reconciliations, payroll, discounts, interest, taxes, depreciation, inventory and the time value of money. Spreadsheets are used extensively in this class. (All Semesters)

M 111 Technical Mathematics 3 credits

Prerequisite: appropriate placement test score, a grade of "C" or better in M 065, or Math Department consent.
This course presents basic mathematical topics as they are applied in a trades program. Topics covered include use of measuring tools, measurement systems, dimensional arithmetic, percents, proportions, applied geometry, and basic trigonometry. This course is intended for specific programs. (Fall and Spring Semesters)

M 115M Probability and Linear Mathematics 3 credits

Prerequisite: appropriate placement test score, a grade of "C" or better in M 095, or Math Department consent.
The course will cover systems of linear equations and matrix algebra including linear programming. An introduction to probability with emphasis on models and probabilistic reasoning will be covered. Examples of applications will be demonstrated from a wide variety of fields. (All Semesters)

M 121M College Algebra 3 credits

Prerequisite: appropriate placement test score, a grade of "C" or better in M 095, or Math Department consent.
This course concentrates on the properties and applications of functions: namely polynomial, rational, radical, exponential, and logarithmic functions of a real variable. The functions will be studied from symbolic, graphic and numeric perspectives. Polynomial, rational, radical, exponential, and logarithmic functions of a real variable will be used to model real-world phenomena and solve applied problems. (All Semesters)

M 123 Surveying Mathematics I 2 credits

Prerequisite: appropriate placement test score or Math Department consent.
Corequisite: M 095.
This course includes geometry, particularly perimeter, circumference, area and volume, and trigonometry. Trigonometry topics are both right angle and oblique angle triangles. (Fall Semester)

M 124 Surveying Mathematics II 3 credits

Prerequisites: a grade of "C" or better in M 095 and M 123 or Math Department consent.
This course includes analytical geometry and calculus. The calculus topics are derivatives and integrals of functions of one variable. (Spring Semester)

M 135Q Mathematics for K-8 Teachers I 5 credits

Prerequisite: appropriate placement test score, a grade of "C-" or better in M 095, or Math Department consent.
This course includes problem solving; sets and functions; numeration systems; arithmetic operations; systems of whole numbers, integers, rational, decimals and real numbers; number theory; and probability.(Fall and Spring Semesters)

M 136Q Mathematics for K-8 Teachers II 4 credits

Prerequisite: appropriate placement test score, a grade of "C-" or better in M 095, or Math Department consent.
This course includes introductory geometry from an intuitive approach; constructions, congruence, and similarity; concepts of measurements; coordinate geometry; and an introduction to interactive geometry software. It also covers elementary statistics. (Fall and Spring Semesters)

M 145Q Mathematics for the Liberal Arts 3 credits

Prerequisite: appropriate placement test score, a grade of "C-" or better in M 095, or Math Department consent.
This course covers linear, quadratic and exponential functions, and basic trigonometry. It also covers topics from some of the following: geometry, financial mathematics, probability, statistics, and calculus. (All Semesters)

M 152M Precalculus Algebra 4 credits

Prerequisite: appropriate placement test score, a grade of "C" or better in M 095, or Math Department consent.
This course is the first semester of a precalculus series. Topics covered include equations, systems of equations and methods of solution, exponents and radicals, linear and quadratic functions and their graphs, solve systems of linear equations using matrices, exponential and logarithmic functions, sequences and series, induction and the binomial expansion. (All Semesters)

M 153M Precalculus Trigonometry 3 credits

Prerequisite: appropriate placement test score, a grade of "C" or better in M 152, or Math Department consent.
This course is the second semester of a precalculus series. Trigonometric functions are introduced using the circular and angular definitions. Trigonometric graphs, identities, equations and applications are investigated. Polar coordinates, polar graphs and conic sections are also covered.(All Semesters)

M 162M Applied Calculus 5 credits

Prerequisite: appropriate placement test score, a grade of "C" or better in M 152, or Math Department consent.
This course is an applications oriented approach to differential and integral calculus. Topics covered are limits, derivatives, applications of derivatives, definite integrals, and applications of the definite integral; these topics are covered for functions of one variable, including exponential, logarithmic and trigonometric functions. Applications of the calculus will be demonstrated through a technology component for the course. (Fall Semester)

M 171M Calculus I 5 credits

Prerequisites: appropriate placement test score, a grade of "C" or better in M 152 and M 153, or Math Department consent.
This is the first of three standard courses in calculus, the others are M 172 and M 273. The course includes limits and continuity, derivatives, applications of derivatives and integration. The types of functions studied include algebraic, trigonometric, exponential, and logarithmic. (Fall Semester)

M 172M Calculus II 5 credits

Prerequisite: appropriate placement test score, a grade of "C" or better in M 171, or Math Department consent.
This is the second of three standard courses in calculus. The course includes transcendental functions, applications and techniques of integration, infinite series, parametrized curves, and polar curves. (Spring Semester)

M 221 M Introduction to Linear Algebra 4 credits

Corequisite: M 171 or Math Department consent.
The study of vectors in the plane and space, systems of linear equations, matrices, determinants, linear transformations, eigenvalues, and eigenvectors. Calculators and/or computers are used where appropriate. (Intermittently)

M 225M Introduction to Discrete Mathematics 4 credits

Prerequisite: a grade of "C" or better in M 171, or Math Department consent.
The study of mathematical elements of computer science including propositional logic, predicate logic, sets, functions, and relations, combinatorics, mathematical induction, recursion, and algorithms, matrices, graphs, trees, structures, morphisms, Boolean algebra, and computer logic. (Intermittently)

M 273M Multivariable Calculus 5 credits

Prerequisite: a grade of "C" or better in M 172 or Math Department consent.
This is the third semester of a three semester sequence in calculus, intended for students majoring in engineering, mathematics, chemistry, or physics. It includes vectors, vector-valued functions, partial derivatives, multiple integrals, and integration in vector fields. (Fall Semester)

M 274M Introduction to Differential Equations 5 credits

Prerequisite: a grade of "C" or better in M 273 or Math Department consent.
This is a first course in ordinary differential equations. Topics may include: linear and non-linear first order differential equations and systems, existence and uniqueness for initial value problems, series solutions, Laplace Transformations, and linear equations of second and higher order. Applications include: forced oscillation, resonance, electrical circuits and modeling differential equations.(Spring Semester)

M 290 Undergraduate Research 1-3 credits

Prerequisite: instructor's consent.
Undergraduate research under the supervision of a full-time faculty member. This course may be repeated for a total of 12 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

MACHINING AND MANUFACTURING TECHNOLOGY (MCH)

MCH 101 Introduction to Manufacturing Processes 1 credit
Formerly MFGT 101 Introduction to Manufacturing Processes

This course is designed to provide the student a learning experience with the basic tools, equipment, and operations of manufacturing industries. The goal is for the student to understand the relationship among a manufacturing need, a design, the materials and processes used, as well as the tools and equipment necessary to manufacture a product. (Fall and Spring Semesters)

MCH 120 Blueprint Reading and Interpretation for Machining 2 credits
Formerly IT 160 Blueprint Reading and Interpretation for Machining

This course introduces the fundamental concepts necessary to interpret drawings and produce sketches for machine tool applications as applied to Machine Tool Technology; Topics include advanced sectioning, geometric dimensioning, geometric tolerance, and assembly drawings/sketching. Interpretation of specifications and determination of acceptable tolerance requirements to ensure quality control measures for design parts will also be stressed. (Fall and Spring Semesters)

MCH 121 Mill and Lathe Systems 4 credits
Formerly MFGT 120 Mill and Lathe Systems

This course is the study of basic machine tool operations and forming processes. Topics addressed include lathe work, milling, drilling operations, tooling, and fixture work. (Spring Semester)

MCH 124 Advanced CNC Programming in MASTERCAM 3 credits

This course introduces MASTERCAM operational basics for both mill and lathe programming using current MASTERCAM software. The course includes terminology relevant to PC-based CAD/CAM work, hardware familiarity, system operation and management, folders, file type and structure, menu structure and use, and 2 ½ axis (milling machines) and 2 axis (lathes) tool paths. Emphasis is placed on proper geometric creation, management, relevant utilities, C-hooks, and toolbar and menu functions. (All Semesters)

MCH 125 HAAS CNC TM1 Lathe Operations 3 credits
Formerly MFGT 128 HAAS CNC TM1 Lathe Operations

Prerequisite: MCH 121.
This course provides opportunities for students to develop skills in the setup and operation of the HAAS TL1 Metal Cutting Lathe. Topics include: safety, lathe parts and controls, lathe tooling and tool bit grinding, lathe calculations, lathe setup and operations. This is a performance-based course that requires the production of assigned tool projects. (Fall and Spring Semesters)

MCH 126 Advanced Mill and Lathe Systems 3 credits

Prerequisite: MCH 121.
This course builds on the prerequisite course of conventional machining. The student will perform advanced hands-on machine shop operations: setup and operation of manual milling machines, manual lathes, drill presses, band saws, grinders, and other equipment commonly found in manufacturing facilities. The student will use precision measuring tools and methods, utilize blueprints, and perform project process planning. The materials used are various types of steel and aluminum. (Fall and Spring Semesters)

MCH 127 HAAS CNC TM1 Vertical Mill Operations 3 credits
Formerly MFGT 129 HAAS CNC TM1 Vertical Mill Operations

Prerequisite: MCH 121.
This course provides instruction in the setup and operation of the HAAS TM1 Vertical Mill; student projects include specialty tooling and multi-axis machining. Students will also gain experience in process control. Topics include: specialty tooling, EDM/ECM, multi-axis machining, process control, and laboratory exercises in part production. (Fall and Spring Semesters)

MCH 129 Machine Quality Control and Precision Measurements 3 credits
Formerly MFGT 141 Machine Quality Control and Precision Measurement

Students will develop the knowledge and skills to prepare them to analyze and evaluate the processes and methodology required in an industrial production environment to determine if quality control standards are being met. Topics include: use of non-precision measuring tools, use of precision measuring tools, use of comparison gauges, and analysis of measurements in a CNC environment. (Fall and Spring Semesters)

MCH 298 Internship: Advanced Manufacturing 1 credit

Prerequisite: advisor's consent.
This course offers a supervised, structured learning experience at an approved manufacturing business facility. Students will receive an orientation to some basic duties and tasks performed by a technician, and will be assigned some basic tasks expected of an entry-level employee. Completion of these tasks, under the supervision of an experienced technician, will enhance the student's knowledge of the day-to-day work of a technician in the field. Prior to placement at an internship site, students will attend an internship orientation to learn the application and internship process. (Spring Semester)

MANUFACTURING (MFGT)

MFGT 101 see MCH 101
MFGT 120 see MCH 121
MFGT 128 see MCH 125
MFGT 129 see MCH 127
MFGT 141 see MCH 129

MFGT 115 Machine Shop Fundamentals 2 credits

The content and sample programs cover a broad range of manual and CNC machining using the software and flexible internet based learning content supported by a classroom instructor to deliver an innovative learning experience. (Fall and Spring Semesters)

MUSIC (MUSI)

MUSI 100 Concert Attendance 0 credits

This course is required of music majors every semester. Each student must attend eight concerts or recitals and sign in or submit proof of attendance. Satisfacory/Unsatisfactory course. (Fall and Spring Semesters)

MUSI 101F Enjoyment of Music 3 credits

This course traces the development of art music through the past 1000 years. Vocal and instrumental music and composers from the Middle Ages, Renaissance, Baroque, Classical, Romantic, and 20th century will be examined through listening, reading and writing. Students will be presented with the analytical and comparative tools to identify and understand the various historical musical eras. (Fall Semester)

MUSI 105F Music Theory I 2 credits

This is a course that teaches the fundamentals of music theory (meter, note values, rests, intervals, major scales, circle of fifths, chord construction, minor scales, basic harmonic progression, whole-tone scales and modes). (Fall Semester)

MUSI 106F Music Theory II 2 credits

Prerequisite: MUSI 105.
This course is a continuation of MUSI 105, which teaches the fundamentals of music theory (meter, note values, rests, intervals, major scales, circle of fifths, chord construction, minor scales, basic harmonic progression, whole-tone scales and modes). (Spring Semester)

MUSI 108 Orchestra: Community Orchestra 1 credit

The Community Orchestra prepares and performs orchestral literature of the past and present and requires rehearsals and public performances. Students must supply their own musical instruments. A maximum of four credits in music ensemble may be applied towards graduation. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

MUSI 108 Orchestra: Glacier Symphony 1 credit

Prerequisite: audition.
An audition-only group, the symphony prepares and performs orchestral literature of the past and present and requires intensive rehearsals and public performances. Students must supply their own musical instruments. A maximum of four credits in music ensemble may be applied towards graduation. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

MUSI 112 Choir: Community Choir 1 credit

This course develops vocal skills and introduces a variety of choral literature through rehearsal and performance. A maximum of four credits in music ensemble may be applied towards graduation. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

MUSI 114 Band: Community Band 1 credit

This course introduces the inner workings of a band program with survey and basic training on a variety of instruments. A maximum of four credits in music ensemble may be applied towards graduation. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

MUSI 130F History of Jazz 3 credits

This course surveys the development of American jazz music from its roots in the late 19th century to the present decade. Students will become familiar with the various stylistic jazz eras through lecture, listening, analysis, discussion and student projects. Students will learn varieties and lineage of an important American musical art and acquire the tools to identify and compare various historical styles. (Fall Semester)

MUSI 131 Jazz Ensemble I: FVCC 1 credit

Prerequisite: audition.
This course is the study and performance of jazz repertoire. A maximum of four credits in music ensemble may be applied towards graduation. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

MUSI 132 F History of Rock and Roll 3 credits

This course surveys the development of rock and roll music from its early blues roots to the present decade. The student will become familiar with the various stylistic music eras through lecture, listening, analysis, discussion and the student projects. Students will learn varieties and lineage of an important popular musical art and acquire the tools to identify and compare various historical styles. (Spring Semester)

MUSI 135 Keyboard Skills I 1 credit

This is a functional skills course intended to work in combination with Music Theory and Aural Perception that will build basic keyboarding skills. (Fall Semester)

MUSI 136 Keyboard Skills II 1 credit

Prerequisite: MUSI 135.
This is a functional skills course intended to work in combination with Music Theory and Aural Perception that will build basic keyboarding skills. (Spring Semester)

MUSI 140 Aural Perception I 2 credits

This course builds aural skills through the use of singing and dictation to supplement MUSI 105. (Fall Semester)

MUSI 141 Aural Perception II 2 credits

Prerequisite: MUSI 140.
This course builds aural skills through the use of singing and dictation to supplement MUSI 106 (a continuation of MUSI 140). (Spring Semester)

MUSI 148 Ensemble: Strings 1 credit

Prerequisite: advisor or instructor's consent.
An ensemble that prepares and performs orchestral and/or ensemble literature of the past and present and requires rehearsals and public performances. Students must supply their own musical instruments. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

MUSI 148 Ensemble: Vocal Jazz 1 credit

Prerequisite: advisor or instructor's consent.
A vocal ensemble that prepares and performs vocal jazz literature of the past and present and requires rehearsals and public performances. Prior singing experience and note reading is helpful but not required. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

MUSI 150 Beginning Voice 1 credit

Prerequisite: instructor's consent.
Students currently taking private music lessons in voice may be able to earn college credit. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

MUSI 160 Beginning Guitar 3 credits

Basic guitar techniques and fundamentals of music for the beginner. Chords and playing techniques needed to accompany singing or other instruments and sufficient theory for understanding the scales and chords. Particularly useful for K-9 teachers. Not necessary to read music in order to take this course. (Fall and Spring Semesters)

MUSI 195 Applied Music I 1 credit

Prerequisite: instructor's consent.
Students currently taking private music lessons (for example brass, guitar, piano, violin, voice) may be able to earn college credit. This course may be repeated for a total of four credits per instrument. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

MUSI 195 Applied Music I: Bass 1 credit

Prerequisite: instructor's consent.
Students currently taking private music lessons in bass may be able to earn college credit. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

MUSI 195 Applied Music I: Brass 1 credit

Prerequisite: instructor's consent.
Students currently taking private music lessons in brass may be able to earn college credit. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

MUSI 195 Applied Music I: Guitar 1 credit

Prerequisite: instructor's consent.
Students currently taking private music lessons in guitar may be able to earn college credit. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

MUSI 195 Applied Music I: Percussion 1 credit

Prerequisite: instructor's consent.
Students currently taking private music lessons in percussion may be able to earn college credit. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

MUSI 195 Applied Music I: Piano 1 credit

Prerequisite: instructor's consent.
Students currently taking private music lessons in piano may be able to earn college credit. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

MUSI 195 Applied Music I: Strings 1 credit

Prerequisite: instructor's consent.
Students currently taking private music lessons in strings may be able to earn college credit. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

MUSI 195 Applied Music I: Woodwind 1 credit

Prerequisite: instructor's consent.
Students currently taking private music lessons in woodwinds may be able to earn college credit. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

MUSI 205 Music Theory III 2 credits

Prerequisite: MUSI 106.
A continuation of MUSI 106. A course teaching the fundamentals of music theory (meter, note values, rests, intervals, major scales, circle of fifths, chord construction, minor scales, basic harmonic progression, whole-tone scales, modes). (Fall Semester)

MUSI 206 Music Theory IV 2 credits

Prerequisite: MUSI 205.
A continuation of MUSI 205. A course teaching the fundamentals of music theory (meter, note values, rests, intervals, major scales, circle of fifths, chord construction, minor scales, basic harmonic progression, whole-tone scales, modes). (Spring Semester)

MUSI 207FG World Music 3 credits

This course surveys the diversity of music among the world's peoples. Music systems, instruments and artists representing various indigenous peoples over seven continents are examined through cultural, social, religious, ceremonial, and performance traditions. Students will be introduced to universal musical elements and techniques for active listening. (Spring Semester)

MUSI 212 Choir II: Glacier Symphony 1 credit

Prerequisite: instructor's consent.
Students may receive college credit for participating in Glacier Symphony/Chorale. The Symphony prepares and performs orchestral literature of the past and present and requires intensive rehearsal and public performances. To qualify, students must audition and supply their own musical instrument. This course may be repeated for a total of three credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

MUSI 230 Intermediate Keyboard Skill: Repertoire 1 credit

Prerequisite: MUSI 136 or equivalent.
A course teaching two-handed vamping accompaniment, harmonizing a melody at sight, playing a prepared harmonization of a popular melody. (Fall Semester)

MUSI 231 Intermediate Keyboard Skill: Accompanying 1 credit

Prerequisites: MUSI 230 or equivalent.
A course teaching both open score reading (SATB) and accompanying at an intermediate (incorporating more complex, accurate, etc.) level of keyboard skills. (Spring Semester)

MUSI 240 Aural Perception III 2 credits

Prerequisite: MUSI 141.
A course building aural and vocal skills through the use of singing and dictation to supplement MUSI 205. (Fall Semester)

MUSI 241 Aural Perception IV 2 credits

Prerequisite: MUSI 240.
A course building aural and vocal skills through the use of singing and dictation to supplement MUSI 206. (Spring Semester)

MUSI 260 Intermediate Guitar 3 credits

Prerequisite: MUSI 160 or instructor's consent.
A continuation of MUSI 160 for students wanting additional instruction. Students will learn a greater understanding of music theory, note reading, advanced playing techniques, and chords. (Spring Semester)

NATIVE AMERICAN STUDIES (NASX)

NASX 105G Introduction to Native American Studies 3 credits

Prerequisite: ANTY 101 or ANTY 220 is recommended.
The traditional cultures of North America: the origin and distribution of native populations, their life ways prior to European contact, and the consequences of contact between Indians and non-Indians in North America after 1492. (Spring Semester)

NASX 232G Montana Indians: Cultures, Histories, Current Issues 3 credits

The traditional cultures of Indian nations associated with Montana; their lifestyles prior to European contact; Montana reservations and tribal governments; and current issues facing Montana's Indian people. (Intermittently)

NONDESTRUCTIVE TESTING AND EVALUATION (NDTE)

NDTE 110 Introduction to Nondestructive Testing 3 credits

Prerequisite or corequisite: WLDG 185 or instructor's consent.
This course is an introduction to nondestructive weld inspection, theory and practices. All six processes will be introduced, liquid penetrate, magnetic particle, eddy current, ultrasonic, radiographic, with visual inspection and AWS, ASME, and ASNT codes and standards being emphasized. (All Semesters)

NDTE 111 Liquid Penetrant and Magnetic Particle Testing 3 credits

Prerequisite or corequisite: WLDG 185 or instructor's consent.
This course is a theoretical study and practical application of the nondestructive testing techniques of liquid penetrate and magnetic particle testing. Emphasis will be placed on proper testing techniques and interpretation of test results. (All Semesters)

NDTE 112 Ultrasonic Testing 5 credits

Prerequisite or corequisite: WLDG 185 or instructor's consent.
Students will study the basic theory and application of ultrasonic testing. Emphasis will be placed on the components, controls and the calibration of the ultrasonic equipment. Students will be studying material from the American Society for Nondestructive Testing SNT-TC-1A. (All Semesters)

NDTE 115 Eddy Current Testing 3 credits

Prerequisite or corequisite: WLDG 185 or instructor's consent.
This course is a general study of eddy current testing principles including the theory and practical hands-on skills for testing metals. Students will familiarize with and employ various probe types, on various material properties. Emphasis will be placed on the selection of proper calibration standards and equipment. (All Semesters)

NDTE 120 Radiographic Testing/ Film Interpretation 5 credits

This course is a study of radiographic testing and interpretation of both digital and film processing techniques. Students are instructed in radiation safety, regulations, and the characteristics of x-ray and gamma radiation. Students apply interpretation techniques on various lab samples to determine the cause and effect of discontinuities in welding samples. (All Semesters)

NDTE 125 AWS D1.1 Code Book 2 credits

Prerequisite: WLDG 185 or instructor's consent.
This course is a study of the American Structural Welding Society D1.1 Structural Welding Code-Steel book's standards and evaluation procedures. Students will learn to interpret code requirements for AWS welding procedures, evaluations, and certification requirements. (All Semesters)

NURSING (NRSG)

NRSG 100 Introduction to Nursing 1 credit

Socializes the student to the roles/functions/expectations of the nurse. This course provides an introduction to nursing history and current views of nursing as discipline (including various types of nursing occupations and educational requirements). Scholastic expectations required to complete a program of study in nursing are introduced as well as professional expectations of the practicing nurse. The following core concepts related to nursing practice are presented: the caring nature of the nursing profession; the importance of critical thinking/clinical judgment; legal/ethical/cultural issues in nursing; the need to understand human motivation and behavior; and use of the nursing process. (Spring Semester)

NRSG 130 Fundamentals of Nursing 7 credits

Prerequisites: BIOH 201, BIOH 211, CHMY 121, M 121, NRSG 100, NUTR 221, PSYX 100, and WRIT 101.
Introduces learners to the clinical skills essential for the nursing role. Also includes complex concepts and behaviors of nursing roles within the context of the nursing process, holistic care and health care. Emphasizes the theoretical practical concepts of nursing skills required to meet the needs of clients in a variety of settings. (Fall Semester)

NRSG 135 Nursing Pharmacology 3 credits

Prerequisites: BIOH 201, BIOH 211, CHMY 121, M 121, NRSG 100, NUTR 221, PSYX 100, and WRIT 101.
Through caring, communication, professionalism, critical thinking, and clinical judgment, students learn a structured systematic approach to the study of drug therapy. Medications are studied according to drug classes and therapeutic families. Students will learn to apply the nursing process to drug therapy with an emphasis on accessing relevant information to ensure client safety. (Fall Semester)

NRSG 138 Gerontology for Nursing 2 credits

Prerequisites: BIOH 201, BIOH 211, CHMY 121, M 121, NUTR 221, PSYX 100, and WRIT 101.
Corequisites: NRSG 130, NRSG 135.
This course introduces the student to the skills and knowledge needed to provide nursing care to aging clients. Topics explored include current trends (including legal and ethical issues) in gerontological nursing, developmental stages and transitions associated with aging, expected age related physiological changes and assessment findings, recognition and management of acute and chronic illnesses that commonly occur in the older adult population, promotion of health for the older adult client, end-of-life issues and care. (Fall Semester)

NRSG 140 Core Concepts of Adult Nursing 7 credits

Prerequisites: NRSG 130, NRSG 135, NRSG 138.
Corequisites: NRSG 142, NRSG 144, NRSG 148.
This course prepares the student to care for clients experiencing common, well-defined health alterations in settings where stable clients are anticipated. Students are introduced to standardized nursing procedures and customary nursing and collaborative therapeutic modalities. The following body systems are addressed: neurological, cardiac, respiratory, renal/urological, gastrointestinal, musculoskeletal, endocrine, reproductive, integumentary, sensory, and homological. The topics of perioperative care, pain, infection/immunity and cancer are addressed. Additionally, recognition and emergent treatment of rapidly changing conditions are introduced. (Spring Semester)

NRSG 142 Core Concepts of Maternal Child Nursing 3 credits

Prerequisites: NRSG 130, NRSG 135, NRSG 138.
Corequisites: NRSG 140, NRSG 144, NRSG 148.
Emphasizing caring, communication, professionalism, and critical thinking, the course provides information about fetal development and prenatal and postnatal care of the mother and newborn. Role of the nurse in meeting the needs of the family is emphasized. Clinical application of caring for the mother and newborn allows the student to demonstrate acquired knowledge. The course also includes growth and development patterns as well as care of the well and sick child. (Spring Semester)

NRSG 144 Core Concepts of Mental Health Nursing 2 credits

Prerequisites: NRSG 130, NRSG 135, NRSG 138.
Corequisites: NRSG 140, NRSG 142, NRSG 148.
This course explores physiological, psychological, sociocultural, spiritual, and environmental factors associated with mental health/illness affecting individuals and families throughout the life span. Focus is placed on basic concepts of psychiatric nursing, therapeutic modalities, as well as psychiatric disorders including psychotherapeutic drug management. (Spring Semester)

NRSG 148 Leadership Issues 2 credits

Prerequisites: NRSG 130, NRSG 135, NRSG 138.
Corequisites: NRSG 140, NRSG 142, NRSG 144.
This capstone course provides the practical nursing student information regarding the current status of vocational nursing. This course assists the nursing student to bridge the role between student and employee. Leadership/management skills, health care delivery systems, continuing educational needs, licensure requirements, legal issues, and standards of practice are investigated. Personal and professional identity and entry into the job market are explored. There is a 45 hour clinical/precepted component to provide the student opportunity to apply theoretical knowledge in the long-term care setting. (Spring Semester)

NRSG 250 LPN to RN Transition 3 credits

Prerequisite: admission into FVCC ASN program.
This course assists students in the transition from LPN to the RN role. Includes components of lifelong learning, adapting to change, critical thinking, nursing process, legal and ethical issues, mathematics for meds, IV therapy, APA format, and skill review to socialize the student into associate degree nursing. (Spring Semester)

NRSG 252 Complex Care Maternal/ Child Client 3 credits

Prerequisite: admission into FVCC ASN program.
This course prepares the student to provide care to maternal/child clients experiencing acutely changing conditions in settings where outcome is less predictable. Topics include care of the client during childbirth, high-risk pregnancies, obstetrical emergencies, neonatal emergencies, and infants and children requiring complex collaborative care. (Spring Semester)

NRSG 254 Complex Care/ Mental Health Client 2 credits

Prerequisite: admission into FVCC ASN program.
This course will explore physiological, psychological, sociocultural, spiritual and environmental factors associated with mental health/illness. Focus will be placed on psychotherapeutic management in the continuum of care, milieu management and special populations with emphasis on individuals, families, and communities. (Spring Semester)

NRSG 258N Principles of Pathophysiology 4 credits

Prerequisite: BIOH 201.
Corequisite: BIOH 211.
This course reviews normal, homeostatic functioning of the body, examines how alterations in structure and function disrupt homeostasis, and how the body responds to the disease process. (Spring Semester)

NRSG 262 Complex Care Needs - Adult Client 4 credits

Prerequisite: admission into FVCC ASN program.
This course prepares the student to provide nursing care to adult clients experiencing acutely changing conditions in settings where outcome is less predictable. Emphasis is placed on the nurse's response to emergent/life-threatening/rapidly changing conditions. Topics covered include collaborative therapeutic modalities related to acute/complex neurological, cardiac, respiratory, hematological, endocrinologic events, shock, sepsis/SIRS, complex burns, etc. (Summer Semester)

NRSG 265 Advanced Clinical Skills Lab 1 credit

Prerequisite: admission into FVCC ASN program.
This course prepares the student to carry out complex nursing interventions. Topics covered include central venous therapy, parenteral nutrition, hemodynamic monitoring, advance airway/ventilatory support, intracranial pressure monitoring, IV medication administration, high risk IV infusions, blood/blood product administration, conscious sedation, advanced wound care, etc. (Summer Semester)

NRSG 266 Managed Client Care 4 credits

Prerequisite: admission into FVCC ASN program.
This course covers topics related to integrated nursing care of individual clients and groups of clients as well as basic principles related to supervision of nursing practice and management of resources. Topics include role differentiation among care providers, organization and prioritization, delegation, supervision and appropriate practice/practice setting; management of the needs of individual and groups of clients, management of health care resources. Additionally, the course helps the student integrate didactic content from all other nursing courses and will help the student in her or his transition from the student role to the role of the Registered Nurse. Students examine legal/ethical issues in nursing, values clarification, conflict resolution and consensus building and effective communication techniques in the employment setting. Licensure exam (NCLEX-RN) preparation and process are also included as a component of the course. The preceptor-based clinical component allows the student to function in the role of a registered nurse while working one-to-one with a designated RN preceptor. (Summer Semester)

NATURAL RESOURCES SCIENCE AND MANAGEMENT (NRSM)

NRSM 101 Natural Resource Conservation 3 credits

This introductory natural resource course examines the difference between renewable and non-renewable resources with emphasis placed on understanding renewable resource conservation and management. Also explored are ecological principles behind soil, water, air, forest, rangeland, and wildlife conservation and management in a sustainable manner. Required for all first-year NR students. (Fall Semester)

NRSM 161 Natural Resource Measurements I 5 credits

Corequisite: SRVY 135.
This is an introductory course in the techniques of resource measurements, species identification, compilation of field data and the application of normal statistics sampling procedures to representative resource situations. (Fall Semester)

NRSM 271GN Conservation Ecology 3 credits

A holistic study of natural resource issues with emphasis on global forested ecosystems and human impacts. Topics include: global climate change, deforestation, indigenous cultures, soil erosion, water quality, urban interface, grazing, noxious weeds, wildfire management, game management, threatened and endangered species; including grizzly bears, lynx, wolves, bird and fish species. Non-natural resource majors are encouraged to take this course. (Spring Semester)

NATURAL SCIENCE (NSCI)

NSCI 102NL The Nature of Science 4 credits

Corequisites: M 095, WRIT 101.
This is a conceptual introduction to the basic principles embodied in the natural sciences, including chemistry, physics, geology, and biology. Fundamental themes of the course are the unifying concepts of the natural sciences as they have evolved, the history of scientific discoveries, and the evolution of scientific thought and the scientific process. The development of the inquiry process used by scientists to test hypotheses will be stressed. A major focus will be on critical thinking, in a scientific context, applied to competing hypotheses in the history of science as well as to examples of borderline and pseudo-science. This course is suitable for students with little or no background in science. Laboratory work is included. (Fall Semester)

NSCI 103NL Basic Physical Science 4 credits

Corequisite: M 095.
A conceptual introduction to the basic principles of physics, chemistry, and the properties of matter. Material is presented in the context of observable, everyday phenomena emphasizing concepts rather than theory. A course for students with little or no background in science. Laboratory work is included. (Spring Semester)

NURSING (NURS)

NURS 101 Nurse's Aide Training 5 credits

Prerequisites: successful completion of a background check from an approved vendor, immunizations, and nurisng staff consent.
Concepts and practices in basic skills for CNA. Course includes basic medical terminology, basic human anatomy and physiology, and the aging process. Students will gain understanding and application of the skills required to address the needs of the chronically ill residents in long-term care facilities. State of Montana approved CNA testing at the end of course. Students are required to attend all classes. The ability to lift 25 pounds is required. Information packets are available. (All Semesters)

NUTRITION (NUTR)

NUTR 221N Basic Human Nutrition 3 credits

This course relates nutritional needs during different stages of the life cycle. Basic concepts of human nutrition including carbohydrates, lipids, proteins, vitamins, minerals, absorption, digestions, metabolism, and energy utilization and how they relate to health and food consumption are covered. (All Semesters)

OFFICE TECHNOLOGY (OT)

OT 152 Speedwriting II 3 credits

Prerequisite: TASK 151.
A follow-up to the theory presentation of the speedwriting shorthand system, designed to develop dictation-taking ability to 80-100 words per minute and to increase transcription skills in order to produce mailable documents. (Intermittently)

OT 205 Legal Machine Transcription 3 credits

Prerequisites: CAPP 154, TASK 113 (50 wpm minimum typing speed or instructor's consent).
A course designed to teach students how to prepare legal correspondence and legal documents directly from dictation using word processing skills. The course will also include legal terminology and case research. (Intermittently)

OT 220 Legal Research 3 credits

Prerequisite: TASK 201.
Students will be able to perform legal research. Students will be familiar with the legal library, be able to look up court cases, and appropriately cite case references. Students will also observe court in session as part of the lab experience. (Spring Semester)

PHYSICAL EDUCATION (PE)

PE 108 see ACT 169
PE 110 see ACT 269
PE 112 see ACT 285
PE 116 see ACT 110
PE 117 see ACT 212
PE 119 see ACT 108
PE 120 see ACT 129
PE 121 see ACT 128
PE 124 see ACT 132
PE 127 see ACT 133
PE 130 see ACT 150
PE 133 see ACT 109
PE 136 see ACT 113
PE 137 see ACT 146
PE 140 see ACT 250
PE 142 see ACT 283
PE 145 see ACT 114
PE 148 see ACT 214
PE 151 see ACT 203
PE 156 see ACT 121
PE 157 see ACT 226
PE 158 see ACT 221
PE 161 see ACT 120
PE 162 see ACT 220
PE 163 see ACT 223
PE 200 see KIN 203
PE 250 see ACTV 289
PE 251 see ACTV 200

PHARMACY (PHAR)

PHAR 115 Pharmacy Technician Practice and Calculations 4 credits

Prerequisite: acceptance in Pharmacy Technology program.
Corequisites: AHMS 144 (if previously not completed with a "C" or better), BIOH 104, and BIOH 105, and ID 101.
This course is an introduction to the field of pharmacy (its history and role in the medical community), Montana state and federal laws regulating the pharmacy industry, and the roles and responsibilities of a pharmacy technician. Included is a background in the profession including correctly keeping pharmacy records and appropriate interactions with the public according to HIPPA regulations. Students are taught the skills necessary for a technologist including interacting with the public, the pharmacist, and other health care professionals. (Fall Semester)

PHAR 198 Internship: Hospital and Community Pharmacy Practice 5 credits

Prerequisites: acceptance in Pharmacy Technology program and completion of PHAR 115 with a "C" or better.
Corequisites: AHMS 144 (if not previously completed with a "C" or better), BIOH 104, and BIOH 105, and ID 101.
This course provides training and on-the-job experience in a variety of hospital and community pharmacies under the supervision of professional pharmacists. Emphasis is placed on practical experience in effective communication, outpatient and inpatient dispensing, unit-dose systems, IV admixture systems, bulk and sterile compounding, and purchasing and inventory control. (Fall Semester)

PHILOSOPHY (PHL)

PHL 101H Introduction to Philosophy: Reason and Reality 3 credits

This course is an examination of current topics such as pornography and censorship, the criminal justice system and theories of punishment, free will and determinism, the existence of God, faith and reason, critique and defense of democracy, various ethical theories and other topics, in relation to the classical concerns of philosophy. (Fall Semester)

PHL 110H Introduction to Ethics: Problems of Good and Evil 3 credits

An examination of moral decision making and behavior, primarily within the western tradition. Students will critically examine various theories of both personal and societal ethics from the classical period until present day. Readings from Plato, Aristotle, St. Augustine, Kant, and Mill, as well as from numerous contemporary philosophers on such issues as good and evil, free will and determinism, ethical relativism, and egoism; courage, wisdom, compassion, and self-respect; hypocrisy, self-deception, jealousy and lying; birth control, abortion, euthanasia, racism and sexism. (Spring Semester)

PHL 132 Introduction to Critical Thinking 3 credits

Students taking this course will gain knowledge and application skills in critical thinking. Specific topics include examining what critical thinking is, informal fallacies, problem solving, and logical analysis. Students will learn to analyze information from a wide range of contexts and reach well-reasoned conclusions. (Fall Semester)

PHL 256 The Philosophy of Non-Violence: Gandhi and King 3 credits

Prerequisite: PHL 101, RLST 100, or instructor's consent.
The 20th century experienced the development of two of the most important social movements in history, the freedom movement in India and the civil rights movement in the United States. Both of these movements were based on and directed by the idea of non-violence as a religion/philosophy of social change. This course will explore the development of the intellectual ideas and the social manifestation of this religion/philosophy of non-violence. Using the lives of M.K. Gandhi and Martin Luther King, Jr. as the guides, the course will consider how the religion/philosophy of non-violence was developed and how it was used to change the largest democracy in the world (India) and the most powerful nation in the world (the United States). (Intermittently)

PHOTOGRAPHY (PHOT)

PHOT 113F Understanding Photography 3 credits

An introduction to basic photographic theory and visual principles, including camera operation, film and digital. Use of black and white darkroom. (Fall Semester)

PHOT 116F Intermediate Black and White Photography 3 credits

Prerequisite: PHOT 113.
This course involves theory and continued application of image control in black and white photography through the use of a variety of 35mm films and digital media. It will include advanced traditional black and white in preparation for portfolio review. (Spring Semester)

PHOT 154F Exploring Digital Photography 3 credits

Prerequisite: CAPP 106 or instructor's consent.
A beginning course about digital photography and the digital darkroom. Students learn about capturing technology of digital cameras and scanners, digital shooting techniques and computer transfer technology of monitors, printers and graphic programs. A photographic project included. Student must have access to digital camera, scanner, printer and associated software. Students must provide their own photo-quality paper. (All Semesters)

PHOT 156 Elements of Photoshop for Photographers 3 credits

Prerequisite: CAPP 106 or instructor's consent.
The student will manipulate continuous-tone (photographic) digital images captured by digital cameras or scanners for desktop, press and offset printing. Topics include color correction fundamentals, image retouching and creative effects, as well as production standards of the press and offset printing industries. The latest versions of Adobe Photoshop and/or Adobe Photoshop Elements will be used. This course is designed for aspiring and professional photographers and print designers. (All Semesters)

PHOT 160 Digital Darkroom 3 credits

This course teaches students to simplify the photography process from shoot to finish. The student will use Lightroom to learn to manage this digital workflow, while complementing Adobe Photoshop software. Lightroom will be used to import, manage, and adjust one image or large volumes of digital photographs. This course will introduce students to the tools and techniques used by the professionals in the photography field. Includes image capture, manipulation, and output. Students will learn the hardware and software used by today's creative professionals in a combination of lectures, demonstrations, and class projects. This course is intended for dedicated photography students. (All Semesters)

PHOT 213F Intermediate Photography 3 credits

Prerequisites: PHOT 116, PHOT 255.
This course is an introduction to large format photography theory and practice. Basic studio and lighting techniques, advanced contrast control though the zone system and exploring digital technologies will be studied. Students will complete a portfolio and presentation of high quality prints for exhibition with a strong emphasis on the art of photography. (Spring Semester)

PHOT 254F Intermediate Digital Photography 3 credits

Prerequisite: PHOT 154.
This course gives students advanced instruction in specialized digital photography areas: shooting at night, using flash and related tools, shooting portraiture, macro-photographing, indoor shooting and printing. Basic computer skills are required. Students must have access to a digital camera, printer, and associated software. Students must provide their own photo-quality paper. (All Semesters)

PHOT 255F Introduction to Color Photography 3 credits

Prerequisite: a grade of "B-" or better in PHOT 116.
This course is an introduction and analysis of color theory, color imagery and color materials. Exploration of image capture via film, scanning, and digital cameras will be covered. Technical skills are developed in digital systems, applications, and printing. It will also include critical exploration of color, visual language, and aesthetic issues. (Fall Semester)

PHYSICS (PHSX)

PHSX 110 Applied Physics 4 credits

Prerequisite: M 123 or other trigonometry course.
This course covers the primary topics in physics. Using methods of algebra, trigonometry and vectors, it is the mathematical study of mechanics, rotational motion, satellite motion, coordinate systems for orbital motion, electricity and magnetism, DC circuits, AC circuits, geometric optics, and wave optics. Laboratory work is included. (Fall Semester)

PHSX 205NL College Physics I 5 credits

Prerequisites: M 153 or equivalent and high school trigonometry.
This is the first semester of a two-semester sequence for students who need physics to support work in other fields. It may not be used as a prerequisite for advanced work in physics. The mathematical study, using algebraic, trigonometric, and vector methods of Newtonian mechanics of solids and fluids including forces, motion both linear and rotational, equilibrium, work and energy, momentum, conservation laws, kinetic theory and thermodynamics, and vibrational and wave motion. Laboratory work is included. (Spring Semester)

PHSX 207NL College Physics II 5 credits

Prerequisite: PHSX 205.
This is the second semester of a two-semester sequence for students who need physics to support work in other fields. It may not be used as a prerequisite for advanced work in physics. The mathematical study, using algebraic, trigonometric, and vector methods, of electricity and magnetism including forces, fields, and energy; induction; and AC and DC circuits; light, geometric and wave optics and optical devices; and selected topics from modern physics including special relativity, atomic physics, and nuclear and quantum physics applications. Laboratory work is included. (Fall Semester)

PHSX 210NL General Physics I 6 credits

Prerequisite: M 171.
Corequisite: M 172.
This is the first semester of a two-semester calculus-based sequence for engineering, physics, computer science, and mathematics majors. The mathematical study, using methods of differential and integral calculus, of classical Newtonian mechanics of solids and fluids, including forces, motion both linear and rotational, equilibrium, work and energy, momentum, and conservation laws; oscillations, mechanical waves, and sound; Kinetic theory and thermodynamics. Laboratory work is included. (Spring Semester)

PHSX 212NL General Physics II 6 credits

Prerequisites: M 172, PHSX 210.
This is the second semester of a two-semester calculus-based sequence for engineering, physics, computer science, and mathematics majors. The mathematical study, using methods of differential and integral calculus, of electricity and magnetism, including forces, fields, and energy, induction, and AC and DC circuits; light, geometric and wave optics and optical devices; and selected topics from modern physics including special relativity, atomic physics, and an introduction to quantum physics such as the Bohr model of the atom, matter/electron waves, deBroglie wavelength, Heisenberg uncertainty principle, wave particle duality, and Schrodinger's equation. Laboratory work is included. (Fall Semester)

PHSX 290 Undergraduate Research 1-3 credits

Prerequisite: instructor's consent.
Undergraduate research under the supervision of a full-time faculty member. This course may be repeated for a total of 12 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

POLITICAL SCIENCE (PSCI)

PSCI 210B Introduction to American Government 3 credits

Nature, purpose, and forms of the American government; relationship between function and structure; dynamics of political change; governmental problems of modern society; emphasis upon constitutional principles, political processes, public opinion, interest groups, political parties, elections, congress, the Presidency, and the Courts. (Fall Semester)

PSCI 212B Introduction to American Issues and Policy Making 3 credits

Introduction to the theory and practice of public policy making process with emphasis on national government. Selected topics from domestic and foreign policy. (Spring Semester)

PSCI 250HB Introduction to Political Theory 3 credits

Analysis of the various attempts (from Plato to Marx) to explain, instruct, and justify the distribution of political power in society. Emphasis is placed upon those theories whose primary concern is to define the nature of the ethical "good" society. (Intermittently)

PUBLIC SAFETY DISPATCH (PSD)

PSD 100 Introduction to 911 2 credits

This course is an introduction into the various aspects of a 911 system and the role of the public safety dispatcher. Topics covered include the history and evolution of the 911 system, identification and managing work related stress, and an overview of the dynamics of employment as a public safety dispatcher. (Fall Semester)

PSD 110 Call Taking/Emergency Medical Dispatch 3 credits

This course will be an in depth discussion of how to answer 9-1-1 (emergent) as well as non-emergent calls. Topics covered include the basics of call taking for public safety issues, emergency medical instructions, officer safety, call types and dispatcher liability. (Fall Semester)

PSD 120 Public Safety Dispatching 3 credits

This course will provide the student with a basic understanding of dispatching specific to law enforcement, fire, and EMS calls for assistance. Students will receive instruction appropriate for understanding all phases in the responsibilities for each of these specific types of agencies. Topics covered include specific channels utilized by each of the three types of services, procedures, listening skills, data entry into the Computer-Aided Dispatch (CAD) system, as well as the basics of entering information into CJIN and NCIC. (Fall Semester)

PSD 195 Dispatch Field Experience 1 credit

This course provides the student with the opportunity to take the academic knowledge gained through coursework in emergency dispatching and apply it in a 911 center. Students will rotate through all the positions in the 911 center including call taking, law, fire and EMS dispatch. The student will listen to calls along with the on-duty dispatcher and observe the processes utilized in appropriate dispatch of resources. (Fall Semester)

PSYCHOLOGY (PSYX)

PSYX 150 see HTH 205
PSYX 242 see CAS 242
PSYX 243 see CAS 248

PSYX 100A Introduction to Psychology 4 credits

Scientific study of behavior in human and sub-human species. Topics include learning and memory, intelligence, emotion, motivation, conflict and stress, abnormal behavior, therapies, altered states of awareness and others. (All Semesters)

PSYX 230A Developmental Psychology 3 credits

Prerequisite: PSYX 100.
This course is an examination of the stages of normal development with the intent to provide a broad, comprehensive background in the study of human development from conception through the end of life. The basic theme will focus on what can be done to facilitate the development of more fully functioning individuals at each particular stage of life and how culture and ethnicity influence development over the life span. (Fall and Spring Semesters)

PSYX 233 Fundamentals of Psychology of Aging 3 credits

Prerequisite: ability to use internet and word processing.
Presents current research on neuroscience and physiology of aging. Explores factors that influence health and have implications for preventive measures in disease and health disorders in the aging. Examines nature of health problems and methods of assessing physical, cognitive, and psychological need. Explores aging effects on client and caregiver. (Intermittently)

PSYX 240A Fundamentals of Abnormal Psychology 3 credits

Prerequisite: PSYX 100.
An introduction to the scientific study of abnormal behavior to try to describe, predict and explain psychopathology. Topics will include classification schemes, the major disorders, and appropriate therapies. (Fall Semester)

PSYX 250NA Fundamentals of Biological Psychology 3 credits

Prerequisite: PSYX 100.
An exploration of the basic neural mechanisms underlying behavior, including topics such as the neuron, the impulse, the synapse, the central and peripheral nervous systems, psychoactive drugs, reproduction, emotion, learning and memory, communication, and neurological and psychiatric disorders. (Fall and Spring Semesters)

PSYX 260A Fundamentals of Social Psychology 3 credits

Prerequisite: PSYX 100.
The study of human behaviors as social beings, and how social situations affect individual behavior. Topics include aggression, prejudice, conformity, communications, and a variety of social experiences. (Fall and Spring Semesters)

PSYX 264 Fundamentals of Group Dynamics 3 credits

Prerequisite: HS 100 or PSYX 100.
An introduction to the function of groups in society; group dynamics as a helping process and a means of giving and receiving information. Problem solving within the group setting will be highlighted. (Spring Semester)

PSYX 275 Fundamentals of Behavior Modification 3 credits

Prerequisite: PSYX 100.
An in-depth study of behavior modification from the viewpoint of the program developer, writer, implementer, recorder, and evaluator including correct identification of behavior modification terms. Beginning with identification of the behavior to be changed, the entire process of behavior modification through the implementation of a programmed intervention will be examined and practiced. (Intermittently)

PARKS, TOURISM, AND RECREATION MANAGEMENT (PTRM)

PTRM 201 Recreation Management 2 credits

This course will introduce students to the many recreational uses on public and private lands. Challenges in recreation and natural resources will be explored. Students will learn constraints imposed by multiple uses of land, develop and compile survey data on uses and make recommendations. Students will also study noxious weeds and other introduced species as they relate to the recreational uses in Montana. (Fall Semester)

RELIGIOUS STUDIES (RLST)

RLST 100G Introduction to the Study of Religion 3 credits

This course examines religion as a universal aspect of human culture. Through this academic approach to the subject, numerous religious traditions will be studied. Common elements such as symbols, rites, scriptures, language, and mythologies will be examined. (Intermittently)

RLST 205 Introduction to New Testament 3 credits

This academic adventure will explore the historical, cultural, political, and religious contexts out of which the Christian church emerged. The historical period which will be examined extends from writing of the Old Testament in Greek (255 Before Common Era [BCE]) to the baptism of Constantine (337 Common Era [CE]). (Spring Semester)

RLST 220G Interpretations of American Religion 3 credits

This course is a historical look at the role of religion in American society from 1600 to present. The course will examine the distinctive themes and characteristics of religion in America including the rise of denominationalism, Roman Catholic, Orthodox, and Protestant forms of Christianity, secularism, pluralism, cults, religious diversity, and constitutional understanding of religion. (Intermittently)

RUSSIAN (RUSS)

RUSS 036~ Basic Russian Conversation 3 credits

Students can come in at any level: beginning, intermediate ,or advanced. The course will focus on understanding and using conversational Russian. Course may be repeated for a total of six credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

RUSS 101GH Elementary Russian I 5 credits

This course gives a basic understanding of grammar and sentence structure, with extensive practice in conversation and oral comprehension. Extensive use is made of language tapes by native speakers. (Intermittently)

RUSS 102GH Elementary Russian II 5 credits

Prerequisite: RUSS 101.
Continuation of RUSS 101. (Intermittently)

SUBSTANCE ABUSE (SA)

SA 140 see CAS 140
SA 221 see CAS 250

SUSTAINABLE FOOD AND BIOENERGY SYSTEMS (SFBS)

SFBS 146 Introduction to Sustainable Food and Bioenergy Systems 3 credits

This course provides an introduction to agricultural sustainability from a systems perspective, with an emphasis in the natural sciences. An array of diverse agricultural systems and practices will be discussed and examined for their relative sustainability. Key topics include food systems, crop production and agroecology. (Fall Semester)

LANGUAGES: SIGN (SIGN)

SIGN 100 History of Signed Languages 2 credits

Explore the art of signing and open the doors to intercultural communication. Develop an understanding of deafness and the communication process. Learn about sign systems used in America today, their history, and application. This introduction course will prepare you for future sign language courses. (Fall Semester)

SIGN 101G Introduction to American Sign Language 3 credits

Learn to communicate with the deaf using the language most widely employed by the deaf population. Includes expressive and receptive skills in finger spelling, basic word and phrase sign, facial expression and body language, conceptual signing, and basic deaf culture. (Fall and Spring Semesters)

SIGN 201G Intermediate American Sign Language 3 credits

Prerequisite: SIGN 101 or some knowledge of sign language.
Learn to communicate with the deaf, using American Sign Language. Includes finger spelling and conceptual signing, facial expression and body language, and deaf culture. (Spring Semester)

SIGN 243G Advanced American Sign Language 3 credits

Prerequisites: SIGN 101, SIGN 201.
This course will take the student further into the world of the deaf by means of cultural experiences, more training with receptive and expressive skills, and skill building for interpreting English into ASL concepts. (Spring Semester - Odd Years)

SIGN 244 American Sign Language Advanced Vocabulary 3 credits

Prerequisites: SIGN 101, SIGN 201.
This course is designed to make the desire for deeper understanding and more meaningful conversation a reality. In this course, the student will examine vocabulary beyond elementary concepts of the beginning signer. The student will delve into signs which convey abstract and difficult concepts. The focus of learning is to gain receptive and expressive confidence and skill, and examine the connection between the language and the culture of the deaf world. (Intermittently)

SIGN 245 Practical Signing 4 credits

Prerequisite: SIGN 101.
This course focuses on identifying various sign systems and discusses the purpose of each. Ethical standards and considerations for signers, as they relate to employment opportunities and work within signing environments will also be examined. The interpreter's code of ethics and conduct will be introduced and discussed along with requirements for interpreter certification. Lab provides experiences in support of course concepts and skills. (Fall Semester)

SIGN 246 Deaf Culture and Community 3 credits

Prerequisite: SIGN 101.
This course emphasizes aspects of deafness and deaf culture that are related to language study and minority group dynamics. Emphasis will be on deaf history, rules of social interaction, values, language and tradition, group norm, and identity as defined within the deaf culture. (Spring Semester)

SIGN 249 American Sign Language on the Stage 3 credits

Prerequisite: SIGN 101 or instructor's consent.
Stage signing will introduce the student to the history of the "National Theatre for the Deaf" as students venture into the arena of performing arts using the primary medium of American Sign Language. (Intermittently)

SOCIOLOGY (SOCI)

SOCI 101A Introduction to Sociology 3 credits

A course designed to introduce the student to the concepts and terms used in the study of man as a social being. It addresses group life of humans: culture, society, association, institutions, collective behavior, and social interaction. (All Semesters)

SOCI 142 20th Century Popular Culture 3 credits

This course investigates popular culture, its nature, its role in our lives and its broad effects on American society and democratic ideals. (Intermittently)

SOCI 201 Social Problems 3 credits

Analysis of forces in society which contribute to such modern social problems as war, crime, delinquency, family disorganization, racial and ethnic tensions, suicide, etc.; possible solutions to social problems. (Intermittently)

SOCI 215 Introduction to Sociology of the Family 3 credits

Prerequisite: SOCI 101.
Contemporary issues and patterns within family life and the influence of larger social trends are studied. The implication of these changes on the state of the family as an institution will be explored. (Intermittently)

SOCI 220GA Race, Gender, and Class 3 credits

Using a variety of sociological perspectives, this course looks at the relationship between race, gender, and class in the United States and around the world. Emphasis on historical and comparative analysis, distribution of power, conflict and reconciliation, and social change. (Fall and Spring Semesters)

SOCI 235 Aging and Society 3 credits

Prerequisites: ability to use internet and word processing.
An introduction to the major issues, research, problems, and current service approaches in the study of aging process. Highlights the themes of demographic trends, theories of aging, lifespan development, person/environment interaction, optimal quality of life including economic and housing issues and cross-cultural and societal factors. An overview of information useful for students in the arts and sciences, business, education, and allied health and nursing programs. (Intermittently)

SOCI 260 Introduction to Juvenile Delinquency 3 credits

Theories of causation, social function and treatment of juvenile delinquency; specific attention to juvenile court systems and correctional/treatment methods as they relate to deviance prior to adulthood. (Intermittently)

SOCI 271 Introduction to Family Violence 3 credits

The theories which have been advanced to explain various types of family violence and the related research will be studied. The question of how family violence became a social problem and how it has been defined will be the focus of the course. (Intermittently)

SPEECH (SP)

SP 110C see COMX 111C
SP 120C see COMX 115C
SP 150CF see COMX 150CF
SP 160CF see COMX 217CF
SP 215 see COMX 215

LANGUAGES: SPANISH (SPNS)

SPNS 066~ Basic Spanish Conversation 3 credits

Opportunity for students at all levels to expand their knowledge of writing, reading and speaking in Spanish. Course may be repeated for a total of six credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

SPNS 101GH Elementary Spanish I 5 credits

Introduction to reading, writing, and speaking Spanish. (Fall Semester)

SPNS 102GH Elementary Spanish II 5 credits

Prerequisite: SPNS 101.
Introduction to reading, writing, and speaking Spanish. (Spring Semester)

SPNS 201GH Intermediate Spanish I 4 credits

Prerequisites: SPNS 101, SPNS 102.
Continued practice in the oral skills with added emphasis on grammar and reading proficiency. (Intermittently)

SPNS 202GH Intermediate Spanish II 4 credits

Prerequisite: SPNS 201.
Continuation of SPNS 201 with some introduction to Spanish literature. (Intermittently)

SURVEYING (SRVY)

SRVY 135 Field Surveying / Global Positioning System Introduction 5 credits

An introduction to basic land measurements and surveying techniques. Exercises include measuring horizontal, vertical, and slope distances; measuring angles and direction, conducting closed traverses and computation and drafting of field data. Historical development of maps, the U.S. Public Land Survey System, and an introduction to Global Positioning Systems is presented. (Fall Semester)

SRVY 152 Surveying Graphics 2 credits

Instruction and practice in the use of drafting tools, lettering, and line construction. The drafting of surveying related projects such as certificates of survey, topographic maps, easement, and encroachment exhibits. (Fall Semester)

SRVY 233 Introduction to GIS for Natural Resource Assessment 4 credits

Introduction to the basic concepts and techniques of computerized spatial data management and analysis systems with application to natural resource/surveying assessment. (Fall Semester)

SRVY 241 Introduction to Surveying for Land Surveyors I 5 credits

Corequisites: M 095, M 123.
Instruction and practice in the use of various surveying instruments to determine point locations; measurement of horizontal and vertical angles; chaining and use of EDM; leveling to determine elevations; recording of field notes; statistical analysis of data; use of compass; the relationships between angles and bearings/azimuths. (Fall Semester)

SRVY 242 Introduction to Surveying for Land Surveyors II 5 credits

Prerequisite: SRVY 241.
Corequisite: SRVY 255.
A continuation of SRVY 241; additional practice in the measurement of horizontal and zenith angles and distances; sources of random and systematic errors associated with traverses; traverse and coordinate geometry computations using hand calculators; area determination of regular and irregular polygons; calculation and staking of horizontal and vertical curves; site/topographic mapping; state plane coordinates. (Spring Semester)

SRVY 245 GPS Mapping 2 credits

Prerequisite: SRVY 233 or SRVY 283.
An introductory course on the fundamentals of the Global Positioning System as it applies to digital mapping and navigation. Instruction and practice in the use of mapping-grade GPS receivers. Analysis of positional accuracy and precision. Course concludes with students selecting and implementing an individual mapping project with final report and class presentation. (Spring Semester)

SRVY 246 Introduction to GPS for Surveyors 2 credits

Prerequisite: SRVY 233 or SRVY 283.
An introductory course on the fundamentals of the Global Positioning System as it applies to digital mapping and navigation. Instruction and practice in the use of mapping-grade GPS receivers. Analysis of positional accuracy and precision. Course concludes with students selecting and implementing an individual mapping project with final report and class presentation. (Spring Semester)

SRVY 247 Survey-grade GPS Control and Analysis 3 credits

Prerequisite: SRVY 270 and SRVY 271 or instructor's consent.
This course is a review of basic Global Positioning System principles, maintenance and adjustment of equipment, instruction and practice in field and office procedures for collecting and processing survey-grade GPS data, student-designed projects with instructor supervision utilizing both fast static and RTK GPS survey techniques to extend a control network, and mast field and office procedures. (Spring Semester)

SRVY 255 Surveying Calculations 3 credits

Prerequisite: SRVY 241.
Corequisite: SRVY 242.
Use of personal computers and associated software to solve typical surveying problems: traverse calculations; rotation and translation of coordinates; intersection calculations; area cutoff calculations; subdivision and road right-of-way design. (Spring Semester)

SRVY 262 Public Land Survey System 3 credits

Prerequisite: SRVY 241.
A study of the United States Public Land Survey System. Emphasis on the legal principles of boundary location and the retracement of the rectangular survey system. Subdivision of sections. Corner search and remonumentation. Determination of directions using solar observation. (Spring Semester)

SRVY 265 Surveying Laws and Land Division 3 credits

Prerequisite: SRVY 270.
A study of selected state laws and regulations that pertain to the surveying profession; laws that affect the surveying and division of lands in Montana; layout and design of subdivisions. (Spring Semester)

SRVY 268 CAD for Surveying Profession 4 credits

Prerequisite: SRVY 152.
Introduction to the use of AutoCAD to generate drawings associated with the surveying profession such as certificates of survey, plan/profile drawings, and preliminary subdivision plats. Use of DXF files. Digitizing of existing drawings into an AutoCAD drawing. (Fall Semester)

SRVY 270 Legal Principles in Surveying I 5 credits

Prerequisites: SRVY 242, SRVY 255, SRVY 262.
Corequisite: SRVY 268.
Legal principles associated with locating boundaries: simultaneously versus sequentially created boundaries; deeds and other legal instruments; easements; research and evidence; use of county courthouse records; law library research with in-class presentation of relevant cases; writing and interpretation of legal descriptions; professional ethics and business practices; retracing/surveying boundaries with total stations; use of data collectors for mapping purposes. (Fall Semester)

SRVY 271 Legal Principles in Surveying II 2 credits

Prerequisite: SRVY 270 or instructor's consent.
Corequisites: SRVY 247, SRVY 273.
More legal principles associated with locating boundaries: additional writing and interpretation of legal descriptions; riparian boundaries and related topics; adverse possession and prescription; road law; advanced PLSS case studies; emphasis on case law research with written reports and oral presentations; professional ethics and business practices. (Spring Semester)

SRVY 273 Route Surveying 2 credits

Prerequisite: SRVY 270.
Corequisites: SRVY 247, SRVY 271.
Instruction and practice in basic road design techniques: review of horizontal and vertical curve calculations; spiral curves; P-line staking; earthwork and mass diagram calculations; slope staking. (Spring Semester)

SRVY 275 Analytic Photogrammetry and Remote Sensing 3 credits

Prerequisite: SRVY 233 or SRVY 283.
The theory and application of photo and electro-optical remote sensing for mapping resources and developing information systems. (Spring Semester)

SRVY 280 Land Surveying Computers 2 credits

Prerequisite: SRVY 246.
Computer maintenance procedures typically encountered in a surveying office environment including installation and upgrading of hardware and software. Installation and configuration of plotters, digitizer boards and GPS stations is also covered. (Spring Semester)

SRVY 283 GIS for Survey Analysis 4 credits

Introduction to the basic concepts and techniques of computerized spatial data management and analysis systems with application to natural resource/surveying assessment. (Fall Semester)

SRVY 290 Undergraduate Research: Projects in GIS 2 credits

Prerequisite: SRVY 233 or SRVY 283.
Student designed project with staff supervision to extend GIS and remote sensing knowledge and experience. Students will select a project within their field of interest and design/implement a GIS for the project. Some opportunities exist for internships with local agencies. (Spring Semester)

SRVY 298 OJT: Land Surveying III 4 credits

Prerequisite: SRVY 242.
On-the-job training under the supervision of a registered professional surveyor. A minimum of 120 hours of work is required as well as a daily diary detailing work performed. (Intermittently)

STATISTICS (STAT)

STAT 216M Introduction to Statistics 4 credits

Prerequisite: appropriate placement test score, a grade of "C" or better in M 115, or Math Department consent.
Graphical methods, measures of location and dispersion, probability, commonly used distributions, estimation, and tests of hypotheses through analysis of variance are introduced. Five major probability distributions are discussed: the binomial, normal, student's t, chi-square, and the F distribution. (All Semesters)

TECHNICAL ADMINISTRATIVE SKILLS (TASK)

TASK 090~ Introductory Keyboarding 1 credit

This course is designed to develop touch keyboarding skills for alphabetic and some punctuation keys on a standard keyboard. (All Semesters)

TASK 110 Keyboarding 1 credit

A course for those with no previous keyboarding experience. It is in a regular classroom setting and designed to develop touch keyboarding skills for the alphabetic, numeric and punctuation keys on a standard keyboard. The student should achieve keyboarding by touch at a rate of 25 words a minute with no more than 5 errors. (All Semesters)

TASK 111 Keyboard Formatting 1 credit

Prerequisite: TASK 110, Tech Prep equivalent, or instructor's consent.
This course is designed to develop formatting skills for letters, reports, tables, and memos. The skills learned will be applicable to business as well as personal situations. (All Semesters)

TASK 112 Keyboard Skillbuilding 1 credit

Prerequisite: TASK 110, TASK 111, or instructor's consent.
An individualized method for developing keyboarding accuracy and speed based on error analysis and corrective practice. (All Semesters)

TASK 113 Keyboarding and Document Processing 3 credits

Prerequisite: TASK 110, TASK 111, TASK 112, or instructor's consent.
A continuation of the development of basic typing skills which emphasizes the production of various kinds of business correspondence, reports, tabulation, and forms from unarranged and rough draft and copy sources. A goal of 55-60 words a minute is expected. (All Semesters)

TASK 125 Editing Skills for Information Processing 2 credits

Prerequisite: TASK 110, TASK 111, WRIT 095, or instructor's consent.
A course emphasizing language arts skills used in today's business office - grammar, punctuation, number usage, capitalization, abbreviations, and spelling. In addition, students will be expected to be able to make decisions and to use proper judgment in preparing a variety of business documents. (Fall and Spring Semesters)

TASK 145 Records Management 3 credits

This course explores the need for information management, the technology and systems used to maintain information throughout its life cycle, retention and legal considerations in maintaining records, security, disaster preparedness and recovery, and standardized procedures for handling information. In addition, students will calculate and interpret measures of central tendency from data, identify patterns, and prepare and interpret charts and graphs. A comparison between medical, public, and corporate information management will be presented. (Fall and Spring Semesters)

TASK 150 Customer Service Strategies 3 credits

Review of customer service skills including answering questions, solving problems, soothing irate customers and reassuring the timid ones. This course covers all aspects of customer service and is necessary for any employee. (Intermittently)

TASK 151 Speedwriting 5 credits

Speedwriting is an alphabetic shorthand system that is easier to learn and transcribe than symbolic shorthand systems. The course includes study of theory, brief forms, dictation, vocabulary and reinforcement of basic English, spelling, punctuation, proofreading, and other necessary transcription skills. It is especially useful to the vocational student for jobs requiring dictation skills, as well as the non-vocational and/or college-bound student for personal note taking. (Fall Semester)

TASK 170 Electronic Calculators 2 credits

Prerequisite: M 108 or instructor's consent.
Practice and procedures in the operation of different models of electronic calculators. Application of calculators to business math problems. (Intermittently)

TASK 201 Production Keyboarding 3 credits

Prerequisite: a grade of "C-" or better in TASK 113 or instructor's consent.
Individual development of speed and accuracy using a diagnostic approach plus the development of a high level of skill in typical office typing situations with practice in a variety of typing forms and business documents. Typing speeds in excess of 55 words a minute are to be expected. (Fall Semester)

TASK 202 Machine Transcription 2 credits

Prerequisite: TASK 113, TASK 125, or instructor's consent.
A course designed to develop skill and accuracy in transcribing from cassette tapes and producing mailable typewritten copy. Transcription will begin with sentences and build to basic letters, memos, and reports. Emphasis will be placed on punctuation, spelling, grammar, and vocabulary building. (Fall Semester)

TASK 210 Office Success Strategies 3 credits

Prerequisite: sophomore standing in the Support Professional program or instructor's consent.
A finishing course in office procedures and duties with emphasis on office ethics, public relations, and attitudes. Job search and interviewing techniques will be covered, as well as records management. (Spring Semester)

TASK 298 Internship 3 credits

Prerequisites: CAPP 154, TASK 113, and completion of 30 credits with a grade point average of 2.0 or better. Submission of an internship application.
This course offers a supervised, structured learning experience at an approved business/organization. Students will receive training related to their field of study, enhance their academic learning, and gain exposure to the workplace. Students will receive assistance in developing application materials and finding worksites meeting learning and legal criteria from the Career Development Coordinator. (All Semesters)

TASK 298 Internship II 3 credits

Prerequisites: TASK 298-Internship, internship coordinator and advisor's consent.
A continuation of TASK 298-Internship. Students design and complete a project developed in cooperation with their internship employer. Students prepare a portfolio to document their 150-hour internship experience. (All Semesters)

THEATRE (THTR)

THTR 101FH Introduction to Theatre 3 credits

The background and theories of theatre arts, appreciation of the theatre and dramatic literature, and the practical aspects of producing a play. (Intermittently)

THTR 102F Introduction to Theatre Design 3 credits

This course will provide a basic understanding of the principles of design for the theatre including the production elements of scenery, sound, digital media and lighting. (Spring Semester)

THTR 106 Theatre Production I: Run Crew 1 credit

Students function as a member of the production team in a role of responsibility (i.e. scenic designer, lighting designer, artistic director, technical director...). Course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

THTR 120F Introduction to Acting I 3 credits

Interactive development of basic acting skills through psycho-physical technique: dramatic action, image-making and improvisation. (Fall Semester)

THTR 121F Introduction to Acting II 3 credits

Prerequisite: instructor's consent.
Continuation of THTR 120. Further exploration of improvisation, textual links and development of performance project. (Spring Semester)

THTR 122C Acting for Non-Majors 3 credits

An introduction to the skills and techniques required of the actor to be effective in communication with others on stage and off stage. (Fall and Spring Semesters)

THTR 202 Stagecraft I: Lighting and Costumes 3 credits

Fundamental theories and application in the areas of scenery, lighting, sound, and stage properties. (Fall Semester)

THTR 203 Stagecraft II: Scenery and Props 3 credits

A continuation of the fundamental theories and application in the areas of scenery, lighting, sound and stage properties and painting. (Spring Semester)

THTR 205 Theatre Workshop II 2 credits

This course is designed to give the student the theory, practice, and application of the artistic and technical production in a performance situation. Course may be repeated for a total of eight credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

THTR 235H Dramatic Literature 3 credits

This course will examine a variety of plays from ancient Greece to modern times. The types of drama studied range from tragedy to comedy. The styles of drama studied will also vary including classicism, realism, and absurdism. This course focuses on drama as a literary genre. (Fall and Spring Semesters)

THTR 275 Beginning Directing II 3 credits

This course is offered for students wishing to expand their theatre experience in the area of artistic direction. This course is geared to anyone with an interest in developing the basic skills necessary to understand the role and responsibility of the artistic director. (Intermittently)

FISH AND WILDLIFE SCIENCE AND MANAGEMENT (WILD)

WILD 270N Wildlife Habitat and Conservation 3 credits

Principles of wildlife ecology and wildlife administration as a basis for the conservation of species with their habitat. Non-natural resource majors are encouraged to take this course. (Spring Semester)

WELDING (WLD)

WLD 100 see WLDG 100
WLD 125 see WLDG 117

WLD 112 Introduction to Pipe Welding 4 credits

Prerequisites: WLDG 100, WLDG 111.
This class is an introduction to pipe welding using the shielded metal arc welding process. The student is instructed on electrode selection, joint and equipment setup. All pipe welding positions will be presented along with the various welding processes employed in pipe welding. (All Semesters)

WLD 121 Welding Certification II 2 credits

Prerequisite: WLDG 185 and instructor's consent.
This class provides experienced welders the opportunity to prepare for, practice, and complete the AWS, API National Welding Certificate exam. The training will include flat, horizontal, vertical, overhead positions of mild and medium steel. Emphasis is placed on AWS standards for Bridge, Structural Steel and Pipe welding codes employing 1" steel for unlimited thickness certification IAW AWS procedures. This course may be repeated for a total of eight credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this class. (All Semesters)

WLD 135 GMAW/GTAW Welding and Certification 4 credits

Prerequisites: WLDG 111, WLDG 122, and WLDG 185.
An advanced study of Gas Metal Arc Welding using the dual shield flux-core welding process in various positions; emphasis will be placed on 5G and 6G positions. Gas Tungsten Arc Welding to ferrous and non-ferrous metals in various positions on pipe and plate will be studied. This course may be repeated for a total of 16 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this class. (All Semesters)

WELDING (WLDG)

WLDG 110 see WLDG 111
WLDG 114 see WLDG 122

WLDG 100 Introduction to Welding Fundamentals 4 credits
Formerly WLD 100 Introduction to Welding Fundamentals

This course is an introduction to welding theory. The fundamentals of welding equipment used in oxyacetylene, shielded metal arc, gas metal arc, gas tungsten arc, including welding and cutting safety. Basic metallurgy and welding process theory will be incorporated. (All Semesters)

WLDG 111 Welding Theory I Practical 4 credits
Formerly WLDG 110 Welding Theory I

Prerequisite or corequisite: WLDG 100.
This is an introductory course presenting the care and use of arc and oxy-fuel welding equipment, regulators, torches, cylinders, power sources, electrodes, characteristics of operation, welding of mild steel and special application weld procedures. Various techniques of welding mild steel and medium steel will be studied. Mechanical properties of metals and types of joints are also presented. (All Semesters)

WLDG 113 Mig Welding 2 credits

This is an introductory course presenting the care and use of Gas Metal Arc Welding (GMAW). Various techniques of welding mild steel and medium steel will be studied. Mechanical properties of metals and types of joints are also presented in relationship to GMAW. This course may be repeated for a total of four credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this class. (Fall Semester)

WLDG 117 Blueprint Reading and Welding Symbols 3 credits
Formerly WLD 125 Blueprint Reading for Welders

This course presents an introduction to industrial blueprints used in the welding industry. Emphasis will be placed on terminology, weld symbols, weld specifications, dimensions, industry and AWS standards. The course also includes interpretation of plans and drawings used by industry in field applications. (All Semesters)

WLDG 122 Welding Theory III Practical 4 credits
Formerly WLDG 114 Mig/Tig Welding

Prerequisites: WLDG 100, WLDG 111 or instructor's consent.
This is an introductory course that presents the care and use of flux core arc welding (FCAW) and shielded metal arc welding (SMAW). The course will present various techniques of welding mild steel and medium steel. The mechanical prperties of metals and types of joints are discussed in relation to FCAW and SMAW techniques. (All Semesters)

WLDG 145 Fabrication Basics I 3 credits

This course covers basic fabrication techniques as they relate to product manufacturing, maintenance and repair. Topics presented include bending, forming, shearing, punching operations, flat pattern layouts, basic jig and fixture applications, and assembly methods. This course may be repeated for a total of six credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this class. (Fall and Spring Semesters)

WLDG 185 Welding Qualification Test Preparation 2 credits

Prerequisite: WLDG 111 or instructor's consent.
This course provides experienced welders the opportunity to prepare for, practice, and complete the AWS National Welding Certificate exam to AWS d1.1 code. The training will include flat, horizontal, vertical, overhead positions of mild and medium steel. Emphasis is placed on heat and rod selection for various metals, techniques, and exam requirements. Both stick and tig welders will be employed. This course may be repeated for a total of eight credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this class. (Fall and Spring Semesters)

WLDG 280 Weld Testing Certification 4 credits

Prerequisites: WLD 112, WLDG 122.
This course is an advanced study of pipe welding using SMAW, FCAW, and GTAW including electrode selection, equipment setup, and shop safety. This course will emphasize the 5G and 6G welding positions using E6010 and E7018 electrodes, along with plumbing, squaring, and fabricating steel test pipes. This course may be repeated for a total of 16 credits. Students receiving financial aid or veteran's benefits should check with the Financial Aid Office before repeating this class. (All Semesters)

WRITING (WRIT)

WRIT 109C see CJLE 109C

WRIT 075~ Building Vocabulary Skills 2 credits

Designed to increase word knowledge and spelling skills needed for college success. Skill development and strategies for both understanding the written word and utilizing new vocabulary in student writing will be covered. This course is strongly recommended for students also enrolled in ID 31, but is not limited to these students. This course may be repeated for a total of four credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

WRIT 080~ Building Basic Writing Skills 3 credits

Prerequisite or corequisite: ID 31 or instructor's consent.
This is the first-level developmental course devoted to improving basic English skills for native speakers. Based on assessment of student needs, instruction emphasizes grammar, mechanics, sentence structure and paragraph development with an emphasis on expository writing. This course may be repeated for a total of six credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

WRIT 095 Developmental Writing 3 credits

Prerequisite: score of 67 or better on COMPASS placement test or a grade of "C-" or better in WRIT 080.
This is the second level developmental course focused on building skills necessary for expository writing. Based on assessment of student needs, instruction emphasizes paragraph development resulting in unity, coherence, and organization. Students will begin with the well developed paragraph and extend to the essay. Instruction in grammar, mechanics and usage is also included. (All Semesters)

WRIT 101W College Writing I 3 credits

Prerequisite: score of 75 or better on COMPASS placement test or a grade of "C-" or better in WRIT 095.
Instruction and practice in expository writing. Emphasizes specific writing and revision techniques to develop coherence, conciseness, clear and forceful style and voice, and thinking skills. Assignments range from short pieces to essays and a research paper. Mastery of the basics of grammar and mechanics is assumed. (All Semesters)

WRIT 121C Introduction to Technical Writing 3 credits

Prerequisite: a grade of "C-" or better in WRIT 101 or WRIT 122.
This course develops skills in writing for technical application: resumes, reports, business letters and fundamentals of research - the type of writing found in business, science and industry. (Fall and Spring Semesters)

WRIT 122C Introduction to Business Writing 3 credits

Prerequisites: TASK 110, TASK 111 are recommended; WRIT 095 or instructor's consent.
This course is a review basic communication skills including listening, written and oral. Study principles and techniques of business letters, memos, and reports using the direct, indirect and persuasive approaches. Emphasis on communicating for employment—resume, application letter, interview. Some emphasis on oral communication, conducting meetings, intercultural communications business technology and internet communication. (Fall and Spring Semesters)

WRIT 201W College Writing II 3 credits

Prerequisite: a grade of "B-" or better in WRIT 101 or instructor's consent.
This course refines specific writing techniques and develops control of style and voice. Emphasis will be placed on the essay form and writing for a specific audience. Also included are advanced rhetorical and persuasive forms, elementary logic, and research techniques. (Fall and Spring Semesters)

The Continuing Education Center

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At every stage and any age, lifelong learners want education for information, enjoyment, advancement, and fulfillment. Those intriguing and engaging lifelong learning opportunities are waiting at FVCC's Continuing Education Center.

The following programs are all part of the Continuing Education Center:

- *Non-credit classes*
- *Online Learning*
- *Learning Adventures*
- *Kid's College*
- *Grandparent's College*
- *Business and Computer Workshops*
- *Renewal Units for Educators*
- *Professional Development*
- *Customized Workforce Training*
- *Montana Superhost*
- *Small Business Development Center*
- *Entrepreneurship Center*
- *Summer Gunsmithing Program*

The Continuing Education Center serves non-traditional students in ways that are different from the structure of regular college credit classes. FVCC's non-credit programs and activities are offered to everyone, regardless of educational level. The emphasis is on quality instructors who are anxious to share information about their areas of expertise.

To find out what is currently being offered:

Email: ceinfo@fvcc.edu

Visit Online:
www.fvcc.edu/continuing-education.html

(406) 756-3832

Non-Credit Classes

FVCC's non-credit courses are designed for learners of all ages. Courses have been developed to enhance the cultural, social and economic well-being of the community. A variety of non-credit classes are available to choose from whether you want to improve your technology skills with Microsoft Office programs, QuickBooks or Web design; boost your job skills with leadership and supervisory training; be creative with painting, beading, photography; or just have fun with art, dance or fitness classes.

Continuing Education provides a variety of quality, lifelong learning opportunities at an affordable price. The instructors are dedicated and caring members of the community who are enthusiastic about their subject matter. Non-credit programs are conveniently scheduled to meet the needs of the casual learner.

Online Non-Credit Learning

Online classes are highly interactive. Classes are offered on a variety of subjects from computers to business administration to writing and language. Students can choose from nearly 300 course listings that have been carefully engineered to provide quick and easy access at times convenient to the learner.

- Classes start every month
- Convenient – learn at home or at work
- Lessons available on Wednesdays and Fridays
- Classes accessed over the Internet anytime – day or night
- Most classes are 6-8 weeks long and do not require textbooks

Learning Adventures

Participants explore Montana's own backyard or travel to far away places. Learning Adventures are exciting opportunities for adults to participate in programs led by quality instructors with creative itineraries.

Kid's College

Kid's College is lots of fun! Hands-on activities encourage children to explore, discover and learn by actually doing. The teaching staff provides extraordinary learning opportunities that stimulate creative minds, build healthy bodies and challenge adventurous souls.

Business and Computer Workshops

Attend workshops and short courses each semester to upgrade and expand skills that may include business development, basic to advanced computing, career transition, customer service, web page design, financial statements, communications, leadership, management or supervision, non-profit development and more.

Renewal Units for Educators

Special workshops of interest to educators are offered with approval from the Office of Public Instruction for certification renewal.

Professional Development

The Continuing Education Center can also help sponsor and coordinate Continuing Education Units and other certification for professional development. Managers, supervisors, bankers, administrators and other professionals can be provided with a record of completed continuing education programs.

Small Business Development Center

FVCC serves as the host agency for the Northwest Montana Small Business Development Center (SBDC). The Center assists existing and start-up businesses with counseling, education and resources needed to succeed in today's market. For a full description of services, please visit www.nwmontanabusiness.com.

Entrepreneurship Center

FVCC's Entrepreneurship Center fosters the development of the entrepreneurial mindset through courses and community events. The Center also helps entrepreneurs and start-up businesses navigate the resources available to them.

Customized Workforce Training

We can custom design a training program to help you and your staff achieve specific business goals. Usually a short phone conversation is all it will take to evaluate your needs and determine your options. Meeting or retreat facilitation and strategic planning are also available. Our satisfied repeat customers represent such services as health care, high tech, park concessions, utilities, construction, manufacturing, wilderness guiding, banking, real estate, skilled nursing, resort operations, equipment rental, and timber processing.

Workforce Training

Montana Superhost

Through a contract with the Montana Office of Tourism, FVCC's Continuing Education Center coordinates Montana's Superhost customer service seminars. These community sessions, online training and webinars are usually all free of charge for tourism-related businesses and organizations across Montana. Please visit montanasuperhost.com for more information.

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Community Partnerships

In our quest to ensure that our programs deliver what our community requests, the Continuing Education Center has developed partnerships with many groups, organizations and agencies. Some of these partner organizations include:

- MMEC - Montana Manufacturing Extension Center
- Northwest Montana Business Expansion and Retention (BEAR) Program
- The Glacier Institute
- The Montana Office of Tourism
- Nonprofit Development Partnership (NpDp)
- Montana Motorcycle Rider Safety Program

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6/14 - Spring Wildflowers
6/17 - Wolves of the North Fork
7/2 - Bears and Berries of GNP
7/3 - Trail and Rail history of GNP
7/10 - Women's Fly Fishing
7/16 - Wolverines of Glacier
7/18 - Middle Fork Ecology by Raft
7/26 - Geology for Families
8/17 - Beavers of GNP
9/14 - Autumn in Glacier
9/21-9/22 - Fall Mushroom Foray

New to the Institute in 2013:

~Private educational tours offered daily
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~Montana Master Naturalist Workshop

Attention Teachers:

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BA, Carroll College
Licensed Clinical Professional Counselor

Chris Hanchett
Associate Professor, Business
MBA, BS, University of Montana
AA, Flathead Valley Community College

Nancy Hanchett
Coordinator, Work Study and Veterans' Affairs

Brenda Hanson
Dean of Students
MA, University of Phoenix
BA, University of Montana

Richard Haptonstall
Associate Professor, Theatre/Music
Chairperson, Humanities Division
MFA, Humboldt State University
BA, Dickinson State University

Lloyd Haugen
Coordinator, Industrial Machine Technology
AA, Ohlone College
AA, El Camino College

Nikita Haugenoe
Surgical Technology Clinical Coordinator

Janice Heil
Assistant Professor, Physical Therapist Assistant
Program Director
MA/BA, The College of Saint Scholastica

Charlene Herron
Career Counselor
BAS, Montana State University - Billings
AA, AAS, Flathead Valley Community College

Donald Hickethier
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Chairperson, Math and Science Division
PhD, Oregon State University
MS, Oregon State University
BS, Montana College of Mineral Science & Technology

Michelle Hicks
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Coordinator, Welding and Metal Fabrication Apprentice Program
AAS, Flathead Valley Community College

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Associate Professor, Geology/Geography
PhD, University of Oregon
BA, Carleton College

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Title III Project Manager
MBA, BS, University of Montana
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Faculty Development and Assessment Specialist
DA, Idaho State University
MS, Towson University
BS, Baldwin-Wallace

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Professor, Surgical Technician
Surgical Technologist, Southeast Technical Institute
MA, BS, Montana State University - Billings
AA, Flathead Valley Community College

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Early Childhood Center Teacher

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Technician, Instructional Media Services
BA, University of Montana
AA, Flathead Valley Community College

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Professor, Language Arts
MA, MFA, University of Iowa
BS, Northern Arizona University

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MA, BA, Pacific Oaks College

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MA, BA, University of Montana

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MBA, University of Montana
BS, Montana State University

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Suzanne Johnston
Cook, Early Childhood Center

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EdD, MS, Oregon State University
BS, University of Oregon

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Advising and Retention Coordinator
MSW, Walla Walla College
BA, University of Montana
AA, Flathead Valley Community College

Rocky Journey
Accounts Technician, Bookstore
BS, University of Montana

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PhD, MS Miami University
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BA, Minot State University

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College President
PhD, Heller School, Brandeis University
BA, Wellesley College

Howard Karp
Executive Chef/Apprenticeship Director, Culinary Arts

Ashley Keller
Early Childhood Center Teacher

Susan Kelly
Faculty Relations Specialist

Cynthia Kiefer
Director, Financial Aid
BA, McKendree College

Warren Kiefer
Systems Analyst - Infrastructure Support

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Pam Klein, RN
Nursing Assistant Coordinator/Instructor
AS, Northern Montana College

David Lamb
Culinary Purchasing Coordinator

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MA, BA University of Montana
AA, North Idaho Community College

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Director, Physical Facilities
BA, University of Washington

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BSN, University of Phoenix

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Professor, Accounting/Business
MBA, St. John's University
BBA, City University of New York

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PHD, MS, Washington State University
BS, University of Colorado

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MA, BSE, Arkansas State University

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BS, Pennsylvania State University

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BAS, Montana State University
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AA, Flathead Valley Community College

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AS, Flathead Valley Community College

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BS, Embry-Riddle

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BA, Johnson State College

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BA, University of California-Santa Barbara

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BA, Pacific Lutheran University

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AAS, Flathead Valley Community College

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Controller
MBA, BS, University of Montana

Lincoln County Campus

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MA, University of Montana
MS, BS, Indiana University

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MHS, University of Great Falls
BS, College of Great Falls
AA, Flathead Valley Community College

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Coordinator, Continuing Education - Extended Learning Division
AA, Flathead Valley Community College

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Instructional/Tutorial Specialist, Technical Support Specialist Extended Learning
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Associate Professor, Business
MBA, BS, University of Montana

Marvin Speck
Maintenance/Custodian II

Emeritus Administrator

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MBA, BS, University of Montana
AAS, Flathead Valley Community College

Kathy Hughes
M.Ed., North Texas State University
BS, Southern Methodist University

Emeritus Dean

Mr. William McClaren
MA, Columbia University
AB, Colorado State College of Education

Emeritus Faculty

Dr. Robert Beall
PhD, MS, University of Montana
BS, University of Michigan

Dr. Alexander Blood
DSc, Colorado School of Mines
BS, University of Virginia

Mr. Richard Champoux
MA, BA, University of Montana

Mr. Reginald DuMontier
MA, University of North Dakota
BA, University of Montana

Mr. Donald Garner
MS, BS, Brigham Young University

Mr. Thomas Jay
MA, BA, Northern Arizona University

Dr. Mel Jordan
PhD, University of Wyoming
MA, BA, Adams State College

Dr. Jeanette Oliver
PhD, MS, BS, Purdue University

Mr. William Rossiter
MA, BA, Marquette University

Mr. Richard Schaus
MS, Naval Postgraduate School
BS, University of Michigan

Dr. David Scott
EdD, University of Montana
MDiv, Garrett Theological Sem., Northwestern University
BA, University of Alabama

Mr. George Shryock
Ed.S., University of Montana
MA, BS, Idaho State University

Dr. Robert Zahrobsky
PhD, University of Colorado
BA, University of Illinois

Career and Technical Advisory Committees

Accounting Technology

Julie Adkins – Julie M. Adkins, CPA
Amy Elletson – FVCC Business Services
Reed Gunlikson – Gunlikson CPA's and Consultants
Don Kisler – Jordahl and Sliter
Connie Schnackenberg – Automated Business Services, Inc.

Auto Body Technology

Gene Dziza - Collision Craft
Pam Haglund - Flathead Job Service
Chuck Hunt - Ohs Body Shop
Jake Kemper - Ohs Body Shop
Mitch Murphy - Auto Werx
Darrell Smith - Able Body Shop
Jeff Wisher - Able Body Shop

Building Trades

John Andrew - Northwest Drywall and Roofing
Curt Denning - Denning Sheet Metal Inc.
Andrew Fischer - Bigfork Builders
Barb Funk - Windemere Real Estate
Jason Hatten - Datum Drafting Design Inc.
Randy Hinzman - Distinctive Countertops and Cabinetry
Brad Reedstrom – Bigfork Builders
Andrew Sliter - Sliter's Lumber
Steve Tartaglino – Cornerstone Construction NW, Inc.
Greg Waldrop – Building Trades Apprentice Program, FVCC

Business Administration/Small Business Management

Phil Boyce - Precision Engineering
Ned Cooney - Nonprofit Development Partnership
Heather Estrada - FVCC
Maarten Fischer - Growth through Agriculture
Hillary Ginepra - FVCC
Mike Jackson - Job Service
Tom Jay - FVCC Emeritus
Cindy Jones - Kalispell Public Schools
Margaret Lekander - Wheaton's
Kim Morisaki - Montana West Economic Development
Chris Parson - Northwest Small Business Development Center
Jeremy Presta - Parkside Federal Credit Union
Brenda Rudolph - FVCC
Chad Schilling - FVCC Lincoln County Campus
Jan Shanahan - Montana Artrepreneurship Program
Jodi Smith - FVCC
Joe Unterreiner - Kalispell Chamber of Commerce
Jeff Wisher - Able Body Shop

Cabinet and Furniture Technology

Tony Dawson - Northwest Cabinets
Rick Dodds - Architectural Woodwork
Domenic Garefino - The Cabinet Connection
Jeff Gilman - Gilman Woodworking
Leif Nelson - Blue Spruce Woodworking
Ole Netteberg - Old World Cabinet Shop
Lori Reiner - Flathead Job Service
Jim Sullivan - Glacier Woodworking
Chris Winters - Samuelson Cabinets

Criminal Justice

Lori Adams - Kalispell Municipal Court
David Castro - Montana Probation & Parole
Ed Corrigan - Flathead County Attorney
Chuck Curry - Flathead County Sheriff
Bill Dial - Chief Whitefish Police Department
Ike Eisentraut - Moonlighting Detective Agency
Captain Hilldenstaff - Montana Highway Patrol
Roger Laferriere - Office of Emergency Services
Steven Liss - Federal Bureau of Investigation
David Perry - Chief Columbia Falls Police
Wade Rademacher - Kalispell Police Department
Steven Stow - U.S. Dept. of Homeland Security
Richard Stratton - U.S. Customs & Border Protection

Culinary Arts

Josh Auerhammer - Culinary Design Studio
Andy Blanton – Café Kandahar
Barb Brandt - Coffee Traders
Mary Behrendant - Columbia Falls School District
Dave and Dana Cordell - Apple Barrel
Doug and Vollie Day - Hops
Heather Estrada - FVCC
Amy Foot – KRMC
Casey Jensen - FVCC Graduate
David Lamb - FVCC
Chris McLaughlin - Tamarack Brewery
Mike Nash - Sysco
Shawn O'Leary: Iron Horse
Tony Palmer - FVCC

Early Childhood Education

Chris Bilant – Kalispell Public Schools
Linda Crayne – Tyketown
Sherrie Smith – Nurturing Center
Cami Stacy - Tyketown

Electrical Technology

Dick Frisk – Frisk Electric
Mark Heider – Heider Electric
Larry Langley – IBEW
Jim Michlig – Kalispell Electric

Emergency Management

Wally Bennet – Montana DNRC
Susie Burch – FVCC Continuing Education
Dave Dedman – Kalispell Fire Department
Steve Frye – Montana DNRC
Brett Lloyd – Spartan Consulting
Ken Mesch – Retired, Montana Department of Disaster and Emergency Services
Terry Mitton – City of Kalispell
Cindy Mullaney – Flathead County Office of Emergency Services
Mark Peck – Montana DNRC
Jodi Smith – Workforce Training, FVCC

Goldsmithing and Jewelry Arts

Tony Asa – Independent Goldsmith
Susie Burch - FVCC
Janet Fischer – FVCC Instructor
Nathaniel Gilham - FVCC Instructor and Graduate
Vivian Goodnight - FVCC Alum
Jill Goodson – Gemvision
Wayne Hammer – Vizit, Inc.
Jeri Hoogendijk - FVCC Stone Setting Instructor
Karen Kolar – FVCC Instructor
Benjamin Mattison - FVCC Graduate

Graphic Design

Cindy Branch - 406 Woman
Bonnie Bushman - Caboodle Graphic Design
Gina Gagnon - Snowghost Design
Tina Grover - Total Label USA
Dwayne Harris - Flathead Beacon
Matt Hartle – Deva Studios
Jeremiah Martin – The Zane Ray Group
Diane Mills - Independant/Freelance
Derrick Mitchell - Derrick Mitchell Design

Health Care Office Management, Health Information Technology (HIT) and Patient Relations Specialist

Stacey Bradley – KRMC
Misty Kratofil - VA Clinic
Traci Waugh – North Valley Hospital
Vicki Wilcutt – KRMC
Deb Wolfshorndhl - FVCC

Heating, Ventilation and Air Conditioning (HVAC)

Terry Aubrey - Flathead Job Service
Chris Compton - HVACRedu.net
Jerry Lyford - Retired, Water Works
Gerry Nichols-Pagel - CTA
Randy Schelling - Airworks
Russ Trutzel - Johnson Controls
Debbi Waldenberg - Central Heating, Plumbing, Cooling & Electrical
Chad Wermer - KRMC
Diane and Bill Yarus - Airworks

Heavy Equipment Operator

Rob Frost – U of M COT- Missoula
Dave Landstrom – MT Fish Wildlife and Parks
Keith Ottes
Jim Reynolds – Salish-Kootenai College
Steve Settle – Settle Construction
Dave Weaver – Hanson Trucking
Mike Wilson – Timberlake Construction

Human Services

Mike Cummins – Flathead Valley Chemical Dependency Program
Kim DeWitt – Community Action Partnership
Randy Kenyon – Opportunity, Inc.
Flo Kiewel – Summit/Independent Living Center
Doug Nelson
Sherry Wulf – United Way

Information Technology

Joe Hickox - Torrent Technologies
Cord Thompson
Gil Parsons - Flathead County
Ron Sheets – FVCC Management Information Systems
Glen Wehe – Evergreen School District

Integrated Agriculture and Food Systems

Brian Bay - H.E. Robinson Vo-Ag Center
Gretchen Boyer - FarmHands/Nourish the Flathead
Markus Braaten - Precision Applications
Julian Cunningham - Swallow Crest Farm
Hillary Ginepra - FVCC-Culinary Arts Faculty
Mark Lalum - Cenex Harvest States
Pat McGlynn - Montana State University Extension
Josh Slotnick - University of Montana/Garden City Harvest
Rebecca Ulizio - Ten Lakes Farm
Jim Watson - Springbrook Ranch

Manufacturing

Jacey Barnaby - Plum Creek
Vicki Billmayer - The Thompson Group
Dean Campbell - Applied Materials
Carl Coletti - Nomad Global Communication Solutions
Jim Drager - Mission Arms Group
Paddy Fleming - MilTech
Laura Gardner - Flathead Job Service
Greg Grace - Plum Creek
Ken Green - Timberline Tool Co.
Chris Hader - Plum Creek
Randy & Wanda Hinzman - Distinctive Countertops
Chris Hyatt - Montana Firearms Institute
Trevor Kjensrud Stoltze - Land and Lumber
Wendy Koster - Diversified Plastics
John McGinnis - Synergy
Jason Manger - Applied Materials
Kim Morisaki - Montana West Economic Develoment
Bill Nicholson - Montana Manufacturing Extension Center
Steve Peace - Zinc Air, Inc.
Brian Sipe - MT Rifleman
Jason Sonju - Sonju Industrial
DeAnn Thomas - Business Expansion and Retention (BEAR)
Jim Wright - Applied Materials

Medical Assistant

Leslie Beard - FVCC
Chris Degenhart – Northwest Women's Health Care
Lora Ercanbrack – LCC
Craig Harrison, MD – Kalispell Gastroenterology
Sue Justis – FVCC
Sheila Morin - Big Sky Medical Clinic
Echo Morrison

Medical Office

Stacey Bradley – Big Sky Family Medicine
Stacy Warner – Northwest Women's Health Care
Traci Waugh – North Valley Hospital
Vicki Wilcutt – KRMC
Deb Wolfshorndhl - KRMC

Natural Resources Conservation and Management

Brian Hobday – Stoltz Land and Lumber Co.
Mark Boardman – Stoltz Land and Lumber Co.
James Burchfield - College of Forestry and Conservation
Patrick Heffernan – PAFTI, Inc.
Dave Jones – DNRC
Jim Kranz – Plum Creek Timber
Daniel Leavell - Kootenai National Forest
Ed Lieser – U.S. Forest Service
Larry Magone
Pat McGlynn – MSU Extension
William Morgan
Roger Rettenmeier
Deborah Schmidt
Jim Williams – Fish, Wildlife and Parks
Lorrie Woods – Plum Creek Timber

Nursing Programs

Maura Fields – North Valley Hospital
Shelley Gysler – Brendan House
Betty Haas – Heritage Place
Kathy Hughes - Community Member
Sue Justis - FVCC
Cindy Kollenborn – Immanuel Lutheran Home
Kathleen Mayer - RN Graduate, Community Member
Pat Pezzelle - FVCC Lincoln County Campus
Kathy Ray – Montana Veteran's Nursing Home
Myrna Ridenour - FVCC
Linda Schroeckenstein – Kalispell Regional Healthcare
Jessica Thompson – Whitefish Care and Rehabilitation
Vicky Tronstad - Community Member
Jody White – Flathead County Health Department
Pat Wilson – Kalispell Regional Healthcare
Cathy Wolf – St. John's Lutheran Hospital

Paramedicine

Rob Bates, MD – KRMC
James Boyce - Evergreen Fire and Rescue
Tim Brester – Polson Emergency Services
Susie Burch - FVCC
Linda Chambers - ALERT
Chuck Curry - Flathead County Sheriff's Office
Dave Dedman – Kalispell Fire Department
Mary Granger – Flathead County EMS
Peggy Miller – Whitefish Fire Department
Rod Schmidt - Bigfork Fire Department
Lance Westgard – Three Rivers EMS
Pat Wilson, RN – KRMC
Kelli Wolfe - Evergreen Fire and Rescue

Personal Trainer

Mike Baker – City Parks and Recreation
Jim Clay – Personal Trainer
Dan DePinto – The Summit
Stu Levitt – The Summit
Cathy Lisowski – The Summit
Doug Mahlum – The Wave
Lena Morrill – The Summit
Brad Roy – The Summit
Cherri Schmaus – Kalispell Athletic Club
April Terry – Kalispell Public Schools

Pharmacy Technology

Leila Avery - Walmart Pharmacy
Harley Brotherton - North Valley Hospital
Mark Donaldson - KRMC
Randy Jensen - Walgreens Pharmacy – Kalispell
Gary Morrison - The Clinical Pharmacy
Andy Norbeck - Walgreens Pharmacy – Whitefish
Tobey Schule - Sykes Pharmacy
Becky Stillo - Alpine Ridge Pharmacy
Wendy Sunde - Kmart Pharmacy
Tera Thorderson - The Clinical Pharmacy
Jerod Vradenburg - Safeway Pharmacy
Mark Walters - Shopko Pharmacy
Renee Wilkonski-Larson - Glacier Ridge Pharmacy
Jason Williams - Smith's Pharmacy – Columbia Falls
John Wisher - Smith's Pharmacy – Kalispell

Physical Therapist Assistant

Margaret Bartels - Orthopedic Rehabilitation
Susan Brakefield – Professional Therapy Associates
Alyssa Cox - Summit Physical Therapy
Amy Fischer - Mountain Physical Therapy
Lori Graybill – Brendan House
Patrick Gulick - Orthopedic Rehabilitation
Larry Iwerson, M.D. – Flathead Orthopedics
Teresa Kropp - Orthopedic Rehabilitation
Kathleen Linney, PT - Acute Physical Therapy, KRMC
Katherine Major – Mountain Physical Therapy
Rod Michel - Orthopedic Rehabilitation
Brian Miller – Advanced Rehabilitation Services
Keith Ori – Orthopedic Rehabilitation
Gordon Smith – Mountain Physical Therapy

Radiologic Technology

Colleen Bench – KRMC
Anders Engdahl – MD, KRMC
Tom McFarlane – KRMC
Jana Rupp – KRMC

Support Professional

Chere Anderson - Glacier High School
Tara Barnes - Flathead High School
Valerie Cooper - LC Staffing
Mora McCarthy - Flathead Job Service
Jordan Nelson - Express Employment Prefessionals
Jill Sigmund - FVCC

Surgical Technology

Cara Boka, CST – KRMC
Ben Dykstra, MD – NW Montana Surgical Assoc., PC
Lynn Farris – FVCC
Nikita Haugenoe - FVCC
Victoria Johnson, RN – Healthcenter Northwest
Larry Schriver, RN – North Valley Hospital
Deanna Walker, ST – KRMC
Jayne Wangerin, RN – KRMC
Eileen Wendling

Surveying

Jeff Bell, PLS
Bryan Block, PLS – Block's Surveying
Dan Brien, PLS – Sands Surveying
Robert Brown, PLS – RAB Surveying
Marc Burkhart, PLS – Flathead National Forest
James Burton, PLS
Michael Drenth, PLS – Eby & Associates
Jane Eby, PLS, PE – Eby & Associates
Bob Erickson, PLS – Jackola Engineering
Richard Goacher, PLS – Goacher & Associates
Dawn Marquardt, PLS – Marquardt & Marquardt
Ryan Mitchell, PLS, PE – Robert Peccia & Associates
Jamie Reed, PLS – Sands Surveying
Mark Roedel, PLS – MDOT
Tom Sands, PLS – Sands Surveying
Jason Smith, PLS – Robert Peccia & Associates
S. Richard Smith, PLS – Smith Surveying
Brian Sullivan, PLS – F & H Land Surveying
Greg Thurston, PLS
Jim Turner, PLS – MDOT
Jeff Underwood, PLS
Darrell Vermilyea, PLS – MDOT
R. Kim Wunderlich, PLS – Glacier Surveying

Web Technology

Andy Apple - Northwest Healthcare
Mike Callaghan - Bigfork Web Development
Reed Gregerson - The Zane Ray Group
John Klippel - American Web Design
Andrea Korb - Whitefish Web Design
Amber Lasater - Whitefish Web Design
Amy Stewart - Avail TVN
Blake Stout - Torrent Technologies

Welding and Fabrication Technology

George Cobb – King Machines HAAS
Rick Donaldson – Montana Tech
Bill Gibson – Montana Tech
Charlie Rice – JORE Corp.
Dick Riebe – Riebe Machine Shop
Dick Sonju – Sonju Manufacturing

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