



# 2012-2013 Academic Catalog

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## **Visit our Web site.**

For a world of information about  
Flathead Valley Community College,  
visit our home page at

**[www.fvcc.edu](http://www.fvcc.edu)**

**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](http://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 2012. Each student is entitled to one copy of the catalog at time of initial enrollment.

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](http://www.fvcc.edu). For further information, write to: Admissions and Records Office, Flathead Valley Community College, 777 Grandview Drive, Kalispell, MT 59901.

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 Advocate for Students with Disabilities 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 2012

August 10	(F)	..... Tuition Due, Early Registered Students
Aug. 13-Aug. 22		..... General Registration: Running Start Students
Aug. 14-Aug. 22		..... General Registration: New and Returning Students
August 20	(M)	..... Pick up Reserved Textbooks
August 22	(W)	..... College In-service (College Closed from 8-10 a.m./ECC Closed)
August 23	(Th)	..... ECC Closed
August 23, 24	(Th,F)	..... Advising/Late Registration: All Students
August 27	(M)	..... Semester Begins
August 31	(F)	..... Last Day to Register or Add Full Semester Classes without Instructor's Signature
September 3	(M)	..... Labor Day Holiday (College & ECC Closed)
September 7*	(F)	..... Last Day to Return Textbooks for a Full Refund in College Bookstore
September 10	(M)	..... Last Day to Add Full Semester Classes (Instructor's Permission Required)
September 10	(M)	..... Last Day to Drop Full Semester Classes and Receive a Partial Refund
September 17	(M)	..... Last Day to Drop Full Semester Classes without a "W" grade recorded
October 8	(M)	..... Columbus Day (Classes will Meet)
October 17	(W)	..... College In-service (No Classes/College Closed/ECC Open)
October 18, 19	(Th, F)	..... ECC Closed
November 12	(M)	..... Veterans' Day Observed (Classes will Meet)
November 19	(M)	..... Last Day to Drop or Request/Rescind an Audit Grade for Full Semester Classes
November 21	(W)	..... Graduation Applications Due
November 22, 23	(Th, F)	..... Thanksgiving Holiday (No Classes/College & ECC Closed)
November 26	(M)	..... Early Online Registration Begins: Limited Student Access, Spring 2013
November 26	(M)	..... Early Registration Begins: Sophomores, Spring 2013
November 27	(T)	..... Early Registration Begins: Returning Students, Spring 2013
December 4	(T)	..... Early Registration Begins: New Students, Spring 2013
December 11	(T)	..... Early Registration Begins: Running Start Students, Spring 2013
December 14, 17-19*		..... Textbook Sell Back in College Bookstore
December 17-19(M-W)		..... Finals
December 19	(W)	..... Semester Ends
Dec. 24 - Jan. 1		..... Semester Break (College & ECC Closed)

## Spring Semester 2013

January 2-16		..... General Registration: All Students
January 3-16		..... Interim Session
January 4	(F)	..... Tuition Due: Early Registered Students
January 14	(M)	..... Pick up Reserved Textbooks
January 17	(Th)	..... Advising/Late Registration: All Students
January 18	(F)	..... College In-service (College Closed from 8-10 a.m./ECC Open)
January 21	(M)	..... Martin Luther King Holiday (College & ECC Closed)
January 22	(T)	..... Semester Begins
January 28	(M)	..... Last Day to Register or Add Full Semester Classes without Instructor's Signature
February 1*	(F)	..... Last Day to Return Textbooks for a Full Refund in College Bookstore
February 5	(T)	..... Last Day to Add Full Semester Classes (Instructor's Permission Required)
February 5	(T)	..... Last Day to Drop Full Semester Classes and Receive a Partial Refund
February 11	(M)	..... Last Day to Drop Full Semester Classes without a "W" grade recorded
February 18	(M)	..... Presidents' Day Holiday (College & ECC Closed)
February 27	(W)	..... Graduation Applications Due
March 5**	(T)	..... College for a Day (No Classes)
April 1-5**	(M-F)	..... Spring Break (No Classes/College & ECC Open)
April 9	(T)	..... Early Online Registration Begins: Limited Student Access, Summer 2013
April 9-June 7		..... Early Registration: New and Returning Students, Summer 2013
April 15	(M)	..... Last Day to Drop or Request an Audit for Full Semester Classes
April 22	(M)	..... Early Online Registration Begins: Limited Student Access, Fall 2013
April 22-May 17		..... Early Registration: Sophomores, Fall 2013
April 23-May 17		..... Early Registration: Returning Students, Fall 2013
May 1-June 7		..... Early Registration: Running Start Students, Summer 2013
May 13-17	(M-F)	..... Textbook Sell Back in College Bookstore
May 15-17	(W-F)	..... Finals
May 17	(F)	..... Semester Ends
May 17	(F)	..... Commencement

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

\*\* Dates are subject to change.



## Summer Semester 2013

May 20-June 7	.....Interim Session
May 24	(F) .....Tuition Due, Early Registered Students
May 27	(M).....Memorial Day Holiday (College & ECC Closed)
June 3	(M).....Pick up Reserved Textbooks
June 10	(M).....Semester Begins
June 10-July 12	.....Session A
June 12*	(W) .....Last Day to Return Textbooks for a Full Refund in College Bookstore
June 14	(F) .....Last Day to Register or Add Full Semester Classes without Instructor's Signature
June 24	(M).....Last Day to Add Full Semester Classes (Instructor's Permission Required)
June 24	(M).....Last Day to Drop Full Semester Classes and Receive a Partial Refund
June 28	(F) .....Last Day to Drop Full Semester Classes without a "W" grade recorded
July 4	(Th).....Fourth of July Holiday (College & ECC Closed)
July 15-August 16	.....Session B
July 22	(M).....Graduation Applications Due
July 31	(W) .....Last Day to Drop Classes or Request/Rescind an Audit Grade for Full Semester Classes
August 14-16	(W-F) ....Textbook Sell Back in College Bookstore
August 16	(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 2011, FVCC awarded 2,290 students \$15,822,757 in financial assistance. The college maintains a small classroom environment with the average student to faculty ratio of 17 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.

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 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.

### ***Kalispell Campus***

The Kalispell Campus incorporates 203,062 square feet and is situated on 216 acres. The campus offers students the opportunity to learn in a spectacular setting with panoramic views of Glacier National Park, Whitefish Mountain Resort and the Columbia Mountain Range.

The campus creates an intimate learning environment with classrooms designed for approximately 30 students to uphold 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 Kalispell Campus houses seven general use computer labs and nine special use labs, including the First Interstate Bank Workforce Training Lab, the Plum Creek Foundation Adult Basic Education Lab, the Plum Creek Foundation Math lab, forestry and science lab, surveying lab, graphic arts lab, reading lab and occupational trades lab.

### ***Lincoln County Campus Extended Learning Division***

The Lincoln County Campus of FVCC, located in Libby, was established in 1984. The Libby area provides access to the beautiful Cabinet Mountains, alpine lakes and the famous Koochanusa Reservoir, with its 60 miles of scenic water and mountains behind the Libby Dam and the Kootenai River.

Housing the Extended Learning Division, the Lincoln County Campus offers students a variety of ways to earn a degree or certificate. Students may opt to:

- attend live site classes in Libby, Troy and Eureka;
- take online courses; and/or
- take courses via interactive teleconferencing.

As an integral part of the communities it serves, the Lincoln County Campus responds to local requests for educational services and works as a partner with government, business, industry and other educational providers to promote economic, cultural and social development. The Lincoln County Campus was fully accredited by the Northwest Association of Schools and Colleges in 1985 as an extension campus. The campus provides a well-balanced educational curriculum in the academic transfer, career and technical and adult education areas.

The campus houses nine classrooms, one art lab, two computer labs, the Glacier Bank Adult Basic Education Learning Center, one science lab, and an Academic

Reinforcement Center.

In September 2004, the college opened the RUS Distance Learning Classroom and Lab which expands educational opportunities to students in the rural Montana communities of Eureka and Troy. Through state-of-the-art video conferencing equipment, the facilities provide simultaneous broadcasts of classes giving students opportunities to take a number of the same college classes Libby students take. In addition, the facilities expand overall course offerings by allowing transmission of classes between both FVCC campuses.

The following degrees and certificates are offered at the Lincoln County Campus:

Associate of Applied Science degrees:

- Business Administration;
- Health Care Office Management;
- Human Services;
- Medical Assistant; and
- Support Professional

Certificates of Applied Science:

- Accounting Technology;
- Business Administration; and
- Medical Transcription (fully online)

Degree requirements are listed in this catalog. Coursework toward AA and AS degrees is also offered.

## ***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](http://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).

## 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-mil adult education levy supplies overhead costs for non-credit programming in Flathead and Lincoln counties.

## 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 students to successfully transfer to any four-year colleges or universities 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, please call (406) 243-5543; or visit [www.health.umt.edu/schools/sw/default.php](http://www.health.umt.edu/schools/sw/default.php)
- **Master of Business Administration**  
For more information, please contact the off-campus MBA program assistant at [oeмба@business.umt.edu](mailto:oeмба@business.umt.edu); or call 406-657-2290 or 800-823-2416; or visit [www.mba-macct.umt.edu](http://www.mba-macct.umt.edu)
- **Master of Education in Curriculum Studies (online degree)**  
For more information, please contact Morgen Alwell, graduate co-coordinator at [morgen.alwell@umontana.edu](mailto:morgen.alwell@umontana.edu) or at (406) 243-5512; or Matthew Schertz, graduate co-coordinator at [matthew.schertz@umontana.edu](mailto:matthew.schertz@umontana.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, please contact Debbie Breneman at [debbie.breneman@msu.umt.edu](mailto:debbie.breneman@msu.umt.edu) or at (406) 243-5586; or visit [www.coehs.umt.edu](http://www.coehs.umt.edu)
- **Master of Public Administration (online degree)**  
For more information, please contact Dr. Jeffrey Greene at [jeffrey.greene@umontana.edu](mailto:jeffrey.greene@umontana.edu) or at (406) 243-6181; or visit [www.cas.umt.edu/polsci](http://www.cas.umt.edu/polsci)
- **Library Media Endorsement (online program)**  
For more information, please contact Michael Schulz at [m\\_schulz@umwestern.edu](mailto: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, please contact Debbie Breneman at [debbie.breneman@msu.umt.edu](mailto:debbie.breneman@msu.umt.edu) or at (406) 243-5586; or visit [www.coehs.umt.edu](http://www.coehs.umt.edu)
- **For online classes**, please visit [www.umt.edu/ce](http://www.umt.edu/ce) and select "UM online," or contact Jeffrey Wimett at [jeffrey.wimett@umontana.edu](mailto:jeffrey.wimett@umontana.edu) or at (406) 243-4470.

## Montana State University - Bozeman

In partnership with Montana State University - Bozeman, students may complete their entire Bachelor of Science in Nursing degree in the Flathead, if accepted into the Kalispell clinical site. For more information, please contact Dr. Sue Justis at [sjustis@fvcc.edu](mailto:sjustis@fvcc.edu) or at (406) 756-3866.

- **Bachelor of Science in Nursing**

## 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](mailto:advising@msubillings.edu); or visiting [www.msubillings.edu/msubonline/](http://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 Science in Public Relations

## Montana State Northern - Havre

- Bachelor of Science in Business Administration, General Business option only.

## 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:

- Bachelor of Science in Health Care Informatics

For more information, please contact Charlie Faught at [cfaught@mtech.edu](mailto:cfaught@mtech.edu) or at (406) 496-4884.

## University of Great Falls

In partnership with the University of Great Falls (UGF), students may earn the following degrees via internet classes or TELECOM (combination of videotape, computer and telephone) on the FVCC campus.

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

- 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 Paralegal Studies
- Bachelor of Arts in Psychology
- Bachelor of Science in Criminal Justice
- Master of Arts in Secondary Teaching
- Master of Education
- Master of Science of Organizational Management

## Housing

Flathead Valley Community College offers limited student housing. The Spruce Wood Apartments, located approximately one mile from campus, consists 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). All 15 two-bedroom apartments include free Internet and television access and are furnished with a refrigerator, stove and oven.

Additionally, FVCC maintains a housing list that is updated weekly. To pick up an application for student housing or the current housing list, call (406) 756-3942; or visit the Admissions Office in Blake Hall or [www.fvcc.edu/current-students/student-life/off-campus-housing.html](http://www.fvcc.edu/current-students/student-life/off-campus-housing.html)

## Facilities

### Flathead County Campus

Flathead Valley Community College, situated in the majestic northern Rocky Mountains in Northwest Montana, 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 / Student Center and Administration (BH/SCA) Building

Blake Hall serves as the college's administration building. The building is home to the newly remodeled Eagle's Nest Cafe; Campus Grounds Cafe 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 or grab a bite to eat. Student Government, club offices and the student lounge are conveniently located between the Eagle's Nest Cafe and bookstore.

### Learning Resource Center (LRC) Building

A wide variety of support services are available to students in the Learning Resource Center. Library, testing and counseling services and resource classrooms are easily accessible. In addition to classrooms and faculty offices, the LRC houses the Media Center, Adult Basic Education (ABE) program office, Career Center, Job Placement Office, Academic Reinforcement Center (ARC), Upward Bound, Carl Perkins, University of Great Falls programs, the Teaching Excellence Center, and paramedicine and emergency management programs.



## Library

Flathead Valley Community College's library is located in the Learning Resource Center (LRC). Its growing collection includes 59,111 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;
- Self-service microfiche reader/printer;
- Personal computers for student use linked to the college's LAN;
- Email and computer lab;
- Quiet study rooms 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 SIRSI; CINAHL; ENCYCLOPEDIA AMERICANA ONLINE; CLC (Contemporary, Literary, Criticism)
- 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 141 member libraries;
- Test proctoring services; and
- 3,000 Online E-Books

While school is in session, the library is open five days per week, 12 hours per day. 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. The library is closed on weekends, holidays, spring break and between semesters.

## Instructional Media Services

The Media Center is located in LRC 117. The center 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 college 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. The center is closed on weekends and holidays.

## Business and Social Science (BSS) Building

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/Science and Technology (RH/SAT) Building

Integrated with their respective classrooms, newly remodeled science laboratories in the RH/SAT Building provide students with hands-on, cutting-edge, interactive learning experiences. The building is home to the practical nursing program and the nursing labs. Faculty offices for math and science are also housed in the building.

## Kalispell Regional Medical Center

Kalispell Regional Medical Center houses classrooms, labs and faculty offices to support the radiologic technology and surgical technology programs.

## Occupational Trades (OT) Building

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 five shop bays, classrooms, a computer lab, student resource area and student conference room.

## Arts and Technology (AT) Building

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, the Multicultural Office and the Continuing Education Center.





### ***Early Childhood Center (ECC)***

The Early Childhood Center is a 7,140 square-foot facility 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 28.

### ***Maintenance Storage Building***

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

## ***Lincoln County Campus Extended Learning Division***

The Lincoln County Campus is located at 225 Commerce Way in Libby. The facility is home to LCC's administrative offices, numerous classrooms, bookstore, art lab, science lab and computer laboratories. The single-story remodeled building is accessible to persons with disabilities and provides a comfortable, pleasant learning environment.

### ***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.



## Admissions

Marlene Stoltz, Registrar/Admissions Coordinator,  
Blake Hall / Student Center and Administration Building  
Room BH/SCA 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 with a non-refundable \$15 application fee (due at the time of application); the application fee is waived for students completing the online application.
- **After application for admission has been submitted, the following records must be provided:**
  1. Official high school transcript, GED certificate or "Ability to Benefit" (take a placement test at the Learning Center for verification)\*;
  2. Official copies of all college transcripts;
  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;
- Practical Nursing;
- Radiologic Technology;
- 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 meet with the college counselor at (406) 756-3880, to have scores evaluated to determine college readiness, or subject to federal guidelines for "Ability to Benefit"; and
  - c. Submit a non-degree *Application for Admission* form and provide required immunization records.  
\* Instructor's signature is required 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. 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 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.

\*Note: Students who are admitted to college under the ability to benefit guideline are not eligible for federal 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 fees.**

## **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 notarized 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 11 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/SCA 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 participates 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.

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.

***New Student Orientation***

New Student Orientation is a program designed to help students learn about college life, student services, advising and registration. For more information, contact the FVCC New Student Admissions Office at (406) 756-3847.





## Placement Tests

Learning Resource Center Building  
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.

## Advising

Full-time and degree-seeking students are assigned advisors after the sixth week of the semester. Initial advising will occur through the Learning Center. Advisors assist students in developing appropriate class schedules, registering for classes, preparing for graduation, transferring and maximizing the college experience to meet personal, educational and career goals.

To register for classes, students are required to meet with their advisors to determine which classes best suit their needs and to obtain the advisors' signatures.

## Registration

Sharon Nau, Associate Registrar/Systems Analyst  
Blake Hall / Student Center and Administration Building  
Room BH/SCA 115 - (406) 756-3845 - [snau@fvcc.edu](mailto:snau@fvcc.edu)

### Early Registration

Early registration dates vary by semester. For the most accurate information, see the academic calendar on page 2 for specific 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.

## 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.

### 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](http://www.fvcc.edu). (This should be done only when the student initially enrolls);
2. Complete placement testing;
3. Review the semester course schedule online at [www.fvcc.edu](http://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, telephone at (406) 756-3848 or online at [www.fvcc.edu](http://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](http://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/SCA 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.

## 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 16.

## 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. The maximum time frame to petition adjustments to records prior to fall semester 2012 is within 10 years of the semester in question.

## Tuition and Fees

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

## Payment of Fees

- 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](http://www.fvcc.edu).
- Deferred Payment Plans are available at the Business Services Office.
- 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.
- 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](http://www.fvcc.edu).



## ***Cost of Attending***

### ***Semester Tuition and Fee Schedule***

Tuition is charged on a per credit basis, depending on the student's residency status. See page 11 of this catalog for residency information. See tuition and fee schedule online at [www.fvcc.edu](http://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 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](http://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](http://www.fvcc.edu).

### ***Deferred Payment Plan***

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 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](http://www.fvcc.edu) or from the Business Services Office.

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.

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. Check with your 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/SCA 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*

#### **Classes beginning the 1st week of semester**

Last business day before start of semester	100%
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**

Last business day before start of class	100%
1st week of class	100%
2nd week of class	50%
After 2nd week of class	No Refund

### **4 to 8-week courses:**

*Courses that last less than 63 calendar days but are at least 28 calendar days*

Last business day before start of class	100%
1st week of class	100%
After 1st week of class	No Refund

### **Fewer than 4-week courses:**

*Courses that last less than 28 calendar days*

Last business day before start of class	100%
Fewer than 24 hours before the start of class	No Refund

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](http://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](http://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](http://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](http://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](http://www.fvcc.edu) for most current information.**

### **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**

### **Application Fee**

Each degree-seeking student is charged a non-refundable \$15 application fee at the time of application. There is no application fee for submitting the online application.

### **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<sup>SM</sup> 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](http://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 / Student Center and Administration Building  
Room BH/SCA 113 - (406) 756-3843 - [ckiefer@fvcc.edu](mailto: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. The interest rate is fixed at 6.8% for subsidized and unsubsidized loans. 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. The interest rate is fixed at 7.9%.

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](http://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 institutional and privately funded scholarships. Applications are available at the FVCC Financial Aid Office and the Lincoln County Campus (LCC) Student Services Office. Application deadlines exist throughout the calendar year; however, the majority are due March 15th for the following academic year.

The following list includes scholarships regularly awarded on an annual basis. Additional information can be found in the financial aid section on the college's web site at [www.fvcc.edu](http://www.fvcc.edu).

Scholarships and the related awarding processes and regulations are subject to change.

### Kalispell Campus

#### **Scholarships available through one or more area high schools include:**

- FVCC Foundation Lincoln County High School;
- FVCC High School Honors\*;
- Northwest Montana Attendance Area Waiver\*;
- Governor's Post Secondary;
- Hawkins;
- Jennet and Edith Orr;
- Ruder Educational Fund;
- Montana University System Honors Scholarships;

#### **Scholarships awarded by major/field of study include:**

##### Accounting

- Flathead Chapter of Montana Society of CPAs

##### Art

- Marjory and Alvin Jacobson Memorial Endowed Art;
- Jean Houseworth Memorial;

##### Building Trades

- Lawrence A. Goroski Memorial Endowed;
- Sliters Ace Lumber and Building Supply Endowed Scholarship;

##### Business

- Barce Family;
- Fey Veterans Scholarship;
- Glacier Bank Endowed;
- Thomas C. Perry Endowment Fund;
- Mary Treloar Memorial Business Endowed;
- Dick Uhde Memorial Endowed;

##### Criminal Justice

- Flathead County Sheriff's Posse;

##### Culinary Arts

- Flathead Tavern Association Endowed;
- Melody and Stuart Johnson Culinary Arts Scholarship;
- Red Lion Hotels Endowed;
- Mike Venner Hospitality Scholarship;

##### Economics

- Philip J. Rygg Memorial;
- Dick Uhde Memorial Endowed;

##### Education

- Beyer Family Foundation Endowed Scholarship;
- Viola Jore Memorial Endowed;
- Melton Mercord Memorial;
- Christopher Savage Memorial Endowed;
- Owen E. Sowerwine;

##### Health/Medical related fields

- Governor's Post Secondary;
- Jack and Almeda King Scholarship;
- Nurse's Aide Discretionary\*;
- Alton Pearce;
- Owen E. Sowerwine;
- Paul T. Williams Memorial Endowed Scholarship;

##### Human Services

- Danielle Dimmick Memorial;
- Christopher Savage Memorial Endowed;
- Owen E. Sowerwine;
- United Way;

##### Humanities

- Barbara P. Graf Memorial;

##### Liberal Arts

- Tracy Foundation, Honoring Mike Mansfield;

##### Math

- Certainty;
- Karen Longhart Memorial Mathematics Education Scholarship;

##### Natural Resources

- Ray Gardner Memorial;
- Lawrence A. Goroski Memorial Endowed;
- Society of American Foresters;
- Sustainability Fund;
- Cal Tassinari/Flathead Land Trust;

##### Natural Sciences

- Certainty;
- Walt and Mary Louise Mauritson Memorial Scholarship;
- Christopher Savage Memorial Endowed;
- Jim Gordley Memorial Endowed;
- Owen E. Sowerwine;
- Sustainability Fund;
- Cal Tassinari/Flathead Land Trust;

##### Political Science

- Philip J. Rygg Memorial;

##### Nursing

- Bigfork Lady Lions;
- Selma Dodge Endowed;
- Fey Nursing Scholarship;
- Charlotte Kempf Johnson Endowed;
- Northstar Nursing Scholarship;
- Kalispell Daybreak Rotary;
- Jack and Almeda King;
- Vivian Beardslee;
- Rita Johnson Endowed Scholarship Fund for Nursing Students;
- Heather Smith Memorial;
- Owen E. Sowerwine;

##### Radiologic Technology

- Ellen and John MacMillan;
- Dustin Petersen Memorial;

##### Social Science (education, social work)

- Christopher Savage Memorial Endowed;
- Owen E. Sowerwine;

##### Surveying

- Roy Bandy;
- Lawrence A. Goroski Memorial Endowed;
- Tiny Tillotson;

##### Technology

- Governor's Post Secondary;

##### Theatre

- Flathead Valley Community Theatre;
- Paul Boe Mosby Memorial Endowed Scholarship;
- Bob Reha Memorial Theatre Scholarship; and

\*These scholarships will cover the equivalent in-district tuition amount per credit for 12-18 credits depending on available funds.



**Scholarships with no specific field of study requirements include:**

- Acey Educational Fund;
- American Association of University Women;
- Dr. Larry Blake Sr. Endowed, Founding President;
- Jerome and Rebecca Broussard Family Endowed;
- CK Logue;
- Class of '61, Inc.;
- Cobb Foundation;
- The Columbia Falls Library Association;
- Steve and Sue Cummings;
- Diogenes Award;
- Ila B. Dousman Endowed Scholarship;
- Susan Ennis Scholarship;
- Express Personnel;
- Mary Fetter Memorial Endowed;
- Flathead Extension;
- Flathead Electric Co-op;
- Flathead Farm Mutual Insurance;
- Fun Beverage Inc.;
- FVCC Foundation;
- FVCC/LCC Adjunct Faculty Union;
- FVCC/LCC Employee Sponsored;
- FVCC Merit Award;
- Glenn Ford Memorial;
- Glenn Ford Memorial and Recycling;
- Governor's Post Secondary;
- Karen Gunderson Scholarship;
- La Serenissima;
- Montana Wooden Boat Foundation;
- O'Neil/Truckner Single Parent Scholarship;
- Ora and Stanley Halvorson Endowed;
- Ella Hanley and Jacobson Family Endowed;
- Mark Hodgson and Dorothy Jaquette Hodgson Endowed;
- Kalispell Farmers' Market;
- T and D Lindsey;
- Bill and Lois McClaren Endowed Scholarship;
- Melton Memorial;
- Curtis and Evelyn Mitchell Endowed;
- Eric Pei Scholarship;
- P.E.O. Chapters BM and C;
- Rhoades Family Endowed;
- Sullivan Family Endowed;
- Robbie Sullivan Memorial Scholarship Fund;
- Dennis and Phyllis Washington Foundation; and
- Whitefish Credit Union Community Pride.

**Tuition waivers are available for the following scholarships:**

- High School Honors  
High school seniors who graduate in the top 10 percent of their class from Flathead, Bigfork, Columbia Falls, Whitefish, Eureka, Libby or Troy high schools. In-district tuition for two semesters at either campus. Eligibility good for two years. Student must maintain a 2.5 GPA. Recipients are determined by high school.
- Montana University System Honors  
Top ranking graduates with a minimum 3.5 GPA from accredited Montana high schools. Recipients determined by high schools, for use at either campus. Renewable.
- FVCC/LCC Academic  
Degree-seeking students at either campus who have completed 30 credits at FVCC and have strong academic standing may be eligible for a two-semester tuition waiver. Please see the Financial Aid Office for more information.
- Logger Sports

**Other tuition waiver scholarships include:**

- Student Services Discretionary\*;
- Division\*;
- Academic\*;
- Young Women of the Year\*;
- Public Safety; and
- Native American\*.

**Libby Campus****Scholarships available through one or more area high schools include:**

- FVCC Foundation Lincoln County High School;
- FVCC High School Honors\*;
- Governor's Post Secondary; and
- Montana University System Honors Scholarships.

**Other tuition waiver scholarships include:**

- Academic\*;
- Division; and
- Native American.

**Scholarships awarded by major/field of study include:****Art**

- Jean Houseworth Memorial;

**Building Trades**

- Lawrence A. Goroski Memorial Endowed;

**Business**

- Glacier Bank Endowed;
- Barce Family;

**Education**

- Ruth Iliff Memorial Scholarship;
- Viola Jore Memorial Endowed;

**Math and Science**

- Certainty;

**Natural Resources**

- Lawrence A. Goroski Memorial Endowed;
- Cal Tassinari; and

**Political Science/Economics**

- Philip J. Rygg Memorial Scholarships;

**Pre-Nursing**

- Charlotte Kempf Johnson Endowed; and
- Jack and Almeda King Scholarship.

**Scholarships with no specific field of study requirements include:**

- American Association of University Women;
- Jerome and Rebecca Broussard Family Endowed;
- CK Logue;
- Class of '61, Inc.;
- Ila B. Dousman Endowed Scholarship;
- Susan Ennis Scholarship;
- Mary Fetter Memorial Endowed;
- Flathead Extension Homemakers Council;
- Flathead Electric Co-op;
- Fun Beverage Inc.;
- FVCC Foundation;
- FVCC/LCC Adjunct Faculty Union;
- FVCC/LCC Employee Sponsored;
- Governor's Post Secondary;
- Karen Gunderson Scholarship;
- O'Neil/Truckner Single Parent Scholarship;
- Ora and Stanley Halvorson Endowed;
- Kootenai Valley Federal Credit Union Scholarship;
- T and D Lindsey;
- Bill and Lois McClaren Endowed Scholarship;
- Curtis and Evelyn Mitchell Endowed;
- Rhoades Family Endowed;
- Sports Car Club of America; and
- Dennis and Phyllis Washington Foundation.

\* These scholarships will cover the equivalent in-district tuition amount per credit for 12-18 credits depending on available funds.

## Veterans' Benefits

*Nancy Hanchett, Coordinator, Work Study & Veterans' Affairs  
Blake Hall / Student Center and Administration Building  
Room BH/SCA 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 BH/SCA 111 or by calling (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.

On January 4, 2011, President Obama signed the Post-9/11 Veterans Educational Improvements Act of 2010 into law (PL 111-377). The legislation amends the provisions of chapter 33 of title 38 U.S.C., modifying the rules by which VA will make eligibility, award and entitlement calculations. The provisions vary in their effective dates, with some effective on the date of enactment (January 4, 2011), and the last provisions effective on October 1, 2011. Some of these changes have

an impact on all VA educational programs. Please visit [www.gibill.va.gov](http://www.gibill.va.gov) for the most current information.

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](http://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 2012/2013 academic year. Visit [www.gibill.va.gov](http://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](http://www.gibill.va.gov).



## Learning Center

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

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 Building  
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 **FREE** 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;
- Refresh skills before entering college or
- 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 or diploma will be required to be eligible for a Pell Grant.

GED 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 Building  
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.

### 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 Don Hicketier at (406) 756-3361 for a complete copy of the policy.

## Advising

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

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.

## Counseling

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

Carrie Burnham - [cburnham@fvcc.edu](mailto:cburnham@fvcc.edu)  
Lynn Farris - [lfarris@fvcc.edu](mailto:lfarris@fvcc.edu)  
Charlene Herron - [cherron@fvcc.edu](mailto:cherron@fvcc.edu)  
Russ Lamson - [rlamson@fvcc.edu](mailto:rlamson@fvcc.edu)  
Dan Voermans - [dvoerman@fvcc.edu](mailto:dvoerman@fvcc.edu)

The 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, Disability Specialist  
[asandiego@fvcc.edu](mailto:asandiego@fvcc.edu)

For appointments, call (406) 756-3880 or (406) 756-3890.  
Learning Resource Center Building  
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 Disability Specialist 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](mailto:rlamson@fvcc.edu)

For appointments, call (406) 756-3880 or (406) 756-3890.  
Learning Resource Center Building  
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 Building*  
*Lori Nicholas, Math Lab Instructor*  
 Room LRC 148 - (406) 756-3892 - [lnicholas@fvcc.edu](mailto:lnicholas@fvcc.edu)  
*Jim Soular, Writing Lab Instructor*  
 Room LRC 147 - (406) 756-3891 - [jsoular@fvcc.edu](mailto:jsoular@fvcc.edu)  
*Carole Pinnell, Reading Lab Instructor*  
 Room LRC 147 - (406) 756-3376 - [cpinnell@fvcc.edu](mailto: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 Building*  
 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 Building*  
 Room LRC 129 - (406) 756-3890 - [cherron@fvcc.edu](mailto: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.

## Placement Services

*Karen Darrow, Coordinator, Career Development*  
*Learning Resource Center Building*  
 Room LRC 144 - (406) 756-3900 - [kdarrow@fvcc.edu](mailto: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

## 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 to an 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.



## **TRIO**

### **Student Support Services**

*A Department of Education TRIO Program  
Lynn Farris, Director, TRIO  
Learning Resource Center Building  
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 and language arts, 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 / Student Center and Administration Building  
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.

## **Carl Perkins CTE Retention Project**

*Robin Graham, Carl Perkins, CTE Retention Advisor  
Room LRC 129 - (406) 756-3673 - rgraham@fvcc.edu*

The Carl Perkins CTE Retention Project is committed to helping financially or academically disadvantaged students enrolled in vocational programs complete Associate of Applied Science degrees and certificates.

The project helps students overcome barriers that might hinder progress toward receiving degrees. Services include career counseling and vocational advising, job search assistance and referral to other community resources.

## **Native American Services**

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

In recognition of the unique and culturally-based needs of Native American students, the Native American Services program was created under the auspices of the ARC project in fall 1992. The office, staffed by the coordinator who serves as a liaison between administration, students and community, provides information and referral services for Native American students. Over the years, this program 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.



## Bookstore

Denise Shuman, Bookstore Manager

Blake Hall / Student Center and Administration Building  
Room BH/SCA 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

Completed in the spring of 2008, Campus Grounds is the college café located inside and operated by the FVCC Bookstore in Blake Hall. The café 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.

### Food Service

The Eagle's Nest Cafeteria, 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 the evening classes. Dining cards of \$10 and \$20 values are available in the Eagle's Nest and in the Business Services Office. Menus and prices are established with student budgets in mind.

### 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.



## Campus Childcare

The FVCC Early Childhood Center serves as a learning lab for FVCC students pursuing careers in early childhood education, elementary education, psychology, human services, social work and nursing. 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.

### 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.

### Programs

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.

### 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 Early Childhood Center Director Laurie Peiffer by calling (406) 756-3991 or by emailing [lpeiffer@fvcc.edu](mailto:lpeiffer@fvcc.edu).



## Student Activities



### 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 David Smith at (406) 756-3993, or email [dsmith@fvcc.edu](mailto:dsmith@fvcc.edu).

### 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](mailto: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 both the spiritual, emotional and physical needs of students on campus by becoming personally involved in the lives of others. For more information, contact (406) 756-3981.

### Circle K International

Circle K International is a collegiate service organization that promotes service, leadership and fellowship. CKI is supported by the local Kiwanis International organization. For more information, contact faculty advisor Laura VanDeKop at (406) 756-3998 or email [lvandekop@fvcc.edu](mailto:lvandekop@fvcc.edu).



### **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.

### **Culinary Arts Club**

The Culinary Arts Club is open to all individuals who are interested in expanding their knowledge and skill level in the art of food preparation and customer service. The club meets the first Thursday of each month to discuss new techniques and trends in the industry, share recipes, experience dining within the community, visit with local vendors, attend educational seminars/demonstrations and competitions related to food service and assist in campus events hosted by the Culinary Arts department. For more information, contact Hillary Ginepra at (406) 756-3862 or email hginepra@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. Students who provide a minimum of 300 hours of service to this agency may also be eligible to receive an education award. 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 and Recreation**

The men's and women's coed intramural program is an integral part of college life at FVCC. Students are encouraged to participate in any of the numerous activities offered including basketball, volleyball, hockey, bowling, laser tag, and table tennis. For more information, contact the Student Development Office at (406) 756-3981.

### **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. Membership is open to the public. The purpose of the club is to offer students and community members the opportunity to play chess and learn more about the game. For more information, contact Garvin Smith at (406) 756-3867 or email gsmith@fvcc.edu.

### **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 [cunterre@fvcc.edu](mailto:cunterre@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.

### ***Students for Choice***

Membership in the Students for Choice empowers students to make informed decisions and to participate in the process that shapes humans' reproductive choices, rights and freedoms. Members organize on campus to protect reproductive rights, advocate for comprehensive education and affordable birth control, raise awareness and increase access to various forms of contraception and provide information on safe sex and sexually transmitted diseases. They are also an integral part of efforts to support the pro-choice vote and to educate voters on pro-choice issues and candidates. For more information, contact the Student Development Office at (406) 756-3981.

### ***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](mailto:mercury@fvcc.edu).

### ***The Multicultural Club***

The Multicultural Club welcomes all individuals who are interested in multicultural issues on a local and global level. Students, staff and community members passionate about promoting cultural awareness and diversity on campus are all invited to participate. The club sponsors various activities and events, honoring all the people, places and cultures of our world. For more information or presentation proposal, contact Mick Stemborski at (406) 756-3945, or email [mstembor@fvcc.edu](mailto:mstembor@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](mailto: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.

Organizational activities include active support of the Montana Veterans' Home, weekly meetings, fundraising, direct support of other student organization activities and internal social events.

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](mailto:rhalvers@fvcc.edu).

For further information on student activities, stop by the Student Activities Office in BH/SCA 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 subpoenaed 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 education 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 or harassment 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.

### ***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.



## 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](http://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](http://www.fvcc.edu/current-students/student-life/campus-safety.html)

### Drug and Alcohol Abuse Prevention

- Drug and Alcohol Policy - FVCC Catalog, p. 33

Counselor: (406) 756-3886  
 Coordinator: Student  
 Activities and Development: (406) 756-3981  
 Lincoln County Campus: (406) 293-2721

### Family Education Rights and Privacy Act (FERPA)

- Student Rights and Responsibilities - FVCC catalog, p. 31

Registrar: (406) 756-3846  
 Lincoln County Campus: (406) 293-2721

### Financial Aid Information

- Types of Aid - FVCC catalog, p. 18-21

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. 57-187  
<http://www.fvcc.edu/academics.html>
- Disability Support Services - FVCC catalog, p. 24  
*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. 16

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. 19

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. 33

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

- Obtain a current catalog from the transfer institution. Many college catalogs are available in the Career Center or online;
- 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
- Review the transfer institution's course equivalency guides. All advisors have copies of the current course equivalency guides for colleges in Montana.
- Review the Montana University System course equivalency guide at [www.mus.edu](http://www.mus.edu)

#### 2. Keep in Touch and Pay Attention

- Confer with the faculty advisor about fulfilling FVCC's and the transfer institution's general education and major requirements;
- Contact the transfer advisor to assist in the transfer process;
- 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
- Meet with the faculty advisor and transfer advisor often to assure a smooth transfer and appropriate course selection.

#### 3. Apply for Admission

- Apply for admission and send official copies of transcripts to the transfer institution. College applications for all public and private colleges in Montana are available in the FVCC Career Center. 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.

## 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.

Transfer agreements exist with and additional credits may transfer to the following institutions:

- Carroll College;
- Central Washington University;
- Eastern Washington University;
- Montana State University - Billings;
- Montana State University - Bozeman;
- Montana State University - Northern;
- Montana Tech of The University of Montana;
- The University of Montana;
- The University of Montana - Western;
- University of Great Falls; and
- Western Governors University.

FVCC credits also transfer to institutions not listed above. The registrars or department heads of the receiving institutions evaluate transcripts to determine how credits will be received.

The Montana University System common course equivalency guide is available at [www.mus.edu/Transfer/transfer.asp](http://www.mus.edu/Transfer/transfer.asp).

## 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 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](http://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.

### 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>.

### General Education Core

An undergraduate student entering or moving from one institution to another within the Montana University 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 program 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.





## 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>.

## 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:** Please see page 40 for the course challenge policy.

### Advanced Placement (AP) and CLEP Credit

Students may earn college credit by taking Advanced Placement (AP) Programs 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.

- There is no limit to the number of credits that may be granted.
- 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, and if you intend to transfer you cannot automatically assume every school will accept these credits as FVCC does. Verify for yourself your 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:

- AP credits may be granted for the lecture portion of the course at the discretion of the appropriate college department; and
- 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.

## 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	8	W
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 World (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



## Service Learning/Campus Corps

*Janaya Okerlund, Supervisor*

*Blake Hall/Student Center and Administration Building  
Room BH/SCA 155 - (406) 756-3908 [jokerlun@fvcc.edu](mailto: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](mailto: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](http://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.

## 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) 756-3847 or [eromain@fvcc.edu](mailto:eromain@fvcc.edu).

## 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 Himalaya 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, numerical 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](mailto:mstembor@fvcc.edu).





## Career Pathways Articulations

Students from secondary schools that have articulation agreements with Flathead Valley Community College may earn credits as outlined in the individual agreements. The procedure for applying for admissions, for earning credits in high school articulated courses and the extent of the high school Career pathways program can be obtained by contacting high school counselors and/or teachers.

Participating high schools for the 2011-2012 school year included Alberton, Arlee, Big Sky, Bigfork, Brown- ing, Charlo, Columbia Falls, Eagle, Flathead, French- town, Hellgate, Hot Springs, Libby, Lincoln County, Noxon, Plains, Polson, Ronan, Seeley Swan, Sentinel, St. Ignatius, St. Regis, Superior, Thompson Falls, Troy and Whitefish.

Participating colleges include: Blackfeet Communi- ty College, College of Technology - Missoula, Flathead Valley Community College, Salish Kootenai College, and The University of Montana - Missoula.

For more information, call (406) 756-3968.

### 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 enrolled at FVCC may petition to chal- lenge 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.

### 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. Students in some areas of Western Montana will be able to attend courses televised from either campus. 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](http://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](http://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 [jmeadows@fvcc.edu](mailto:jmeadows@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](http://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.

### **Satisfactory/Unsatisfactory**

Satisfactory/Unsatisfactory ("S/U") grading is available only at the discretion of the instructor. A limit of 12 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.

### **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.





## **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>.

### **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.

## **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/SCA 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. **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.

### **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.



My advisor is: \_\_\_\_\_ Office: \_\_\_\_\_

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_

**Don't know who your advisor is?** Call the Admissions and Records Office at (406) 756-3846 to find out.

For auxiliary advising, transfer advising, career planning and counseling, contact the **Learning Center**, LRC 129, (406) 756-3880.

### Educational Plan

Semester 1	Semester 2	Semester 3	Semester 4







## 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 typically 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 sixty (60) semester credits in courses numbered 100 level and above for an AA degree. A course cannot satisfy more than one general education core or graduation requirement.**
- II. **Final cumulative grade point average of 2.0 or above. A grade of "C-" or better is required for all general education core requirements unless otherwise stated.**
- III. **At least twenty (20) semester credits earned at FVCC and the final ten (10) credits earned at FVCC.**
- IV. **A limit of twelve (12) semester credits graded "S" may count toward the associate degree. Check with transfer institution regarding the acceptance of "S" credits.**
- V. **General Education Core (30+ credits)**
- VI. **Most courses assume proficiency in basic computer skills.**

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:

_____	IDS	135C	Thinkering: How to Problem Solve	3
_____	JRNL	100C	Introduction to Mass Media	3
_____	JRNL	101C*	News Writing and Reporting	3
_____	JRNL	111C*	College Publications I	3
_____	SP	110C	Public Speaking	3
_____	SP	120C	Interpersonal Relations/ Communications	3
_____	SP	150CF	Video Communication	3
_____	SP	160CF	Oral Interpretation	3
_____	THTR	122C	Acting for Non-Majors	3
_____	WRIT	109C	Police Report Writing	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 forK-8 Teachers I	5
_____	M	136Q*	Mathematics forK-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

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

**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
_____	HUM	261H	Introduction to Humanities: Origins and Influences I	4
_____	HUM	262H	Introduction to Humanities: Origins and Influences II	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	207GH	African-American Writers	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
_____	LIT	240H	Bible as Literature	3
_____	LIT	246GH	Major Women Writers	3
_____	LIT	285H	Mythologies	3
_____	LIT	286GH	Comparative Mythology	3
_____	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	212*	Jewelry and Metalsmithing III	3
_____	ARTZ	105F	Visual Language-Drawing	3
_____	ARTZ	106F	Visual Language-2D Foundations	3
_____	ARTZ	108F*	Visual Language-3D Foundations	3
_____	ARTZ	221F	Painting I	3
_____	ARTZ	224F	Watercolor I	3
_____	ARTZ	231F	Ceramics I	3
_____	ENGL	251F*	Creative Writing in Fiction	3
_____	ENGL	252F	Creative Writing in Poetry	3
_____	FILM	111F*	Basic Videomaking	3
_____	HONS	260FA*	Honors: Fine Arts/Social Science-A	4
_____	HONS	261FB*	Honors: Fine Arts/Social Science-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
_____	SP	150CF	Video Communication	3
_____	SP	160CF	Oral Interpretation	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

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

**SOCIAL SCIENCES (A, B)****6+ credits**

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

**Complete six (6) semester credits 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 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	236GA	Introduction to Race and Ethnic Relations	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):**

_____	ANTH	210NL*	Forensic Science I	4
_____	ANTH	211NL*	Forensic Science II	4
_____	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	170N* & 171L*	Principles of Biological Diversity and Lab	5
_____	BIOB	256NL*	Intro Biol: Cells to Organisms	4

_____	BIOB	258NL*	Intro Biol: Organism to Popltns	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	250N* & 251L*	Microbiology for Health Sciences and Lab	4
_____	BIOM	260N* & 261L*	General Microbiology and Lab	5
_____	BIOO	105NL	Introduction to Botany	3
_____	BIOO	235NL	Rocky Mountain Flora	3
_____	BIOO	262NL*	Introduction to Entomology	3
_____	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	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	250N*	Microbiology for Health Sciences	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

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



**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	207GH	African-American Writers	3
___	LIT	246GH	Major Women Writers	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	236GA	Introduction to Race and Ethnic Relations	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

Additional degree requirements for the Associate of Arts degree:

**FINE ARTS (F)****3+ credits**

Complete three (3) semester credits of Fine Arts (F).

**SOCIAL SCIENCES ( A or B), HUMANITIES (H), COMMUNICATIONS (C), or WRITING (W)**

**3+ credits**

Complete three (3) semester credits of either Social Sciences (A or B), Humanities (H), Communications (C) or Writing (W).

**ELECTIVES****20+/- credits**

Total credits for the Associate of Arts degree must be at least sixty (60) credits.

**TOTAL CREDITS 60**

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

- \_\_\_ A. Mathematics (M) (selected from the list on page 50) **3 credits**
- \_\_\_ B. Natural Science (NL or N) or Mathematics (M) **3 credits**
- \_\_\_ C. Communications (C), Global Issues (G), Humanities (H), Mathematics (M or Q), Natural Science (NL or N), Social Sciences (A or B), or Writing (W) **9 credits**
- \_\_\_ D. A total of 75 semester credits numbered 100 or above.



## 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 typically 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 sixty (60) semester credits in courses numbered 100 level and above for an AS degree. A course cannot satisfy more than one general education core or graduation requirement.**
- II. **Final cumulative grade point average of 2.0 or above. A grade of "C-" or better is required for all general education core requirements unless otherwise stated.**
- III. **At least twenty (20) semester credits earned at FVCC and the final ten (10) credits earned at FVCC.**
- IV. **A limit of twelve (12) semester credits graded "S" may count toward the associate degree. Check with transfer institution regarding the acceptance of "S" credits.**
- V. **General Education Core (30+ credits)**
- VI. **Most courses assume proficiency in basic computer skills.**

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.

### MATHEMATICS (M) 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:

_____	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:

_____	IDS	135C	Thinkering: How to Problem Solve	3
_____	JRNL	100C	Introduction to Mass Media	3
_____	JRNL	101C*	News Writing and Reporting	3
_____	JRNL	111C*	College Publications I	3
_____	SP	110C	Public Speaking	3
_____	SP	120C	Interpersonal Relations/ Communications	3
_____	SP	150CF	Video Communication	3
_____	SP	160CF	Oral Interpretation	3
_____	THTR	122C	Acting for Non-Majors	3
_____	WRIT	109C	Police Report Writing	3
_____	WRIT	121C*	Introduction to Technical Writing	3
_____	WRIT	122C*	Introduction to Business Writing	3

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

_____	M	115M*	Probability and Linear Mathematics	3
_____	M	121M*	College Algebra	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

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

**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
___	HUM	261H	Introduction to Humanities: Origins and Influences I	4
___	HUM	262H	Introduction to Humanities: Origins and Influences II	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	207GH	African-American Writers	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
___	LIT	240H	Bible as Literature	3
___	LIT	246GH	Major Women Writers	3
___	LIT	285H	Mythologies	3
___	LIT	286GH	Comparative Mythology	3
___	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	212*	Jewelry and Metalsmithing III	3
___	ARTZ	105F	Visual Language-Drawing	3
___	ARTZ	106F	Visual Language-2D Foundations	3
___	ARTZ	108F*	Visual Language-3D Foundations	3
___	ARTZ	221F	Painting I	3
___	ARTZ	224F	Watercolor I	3
___	ARTZ	231F	Ceramics I	3
___	ENGL	251F*	Creative Writing in Fiction	3
___	ENGL	252F	Creative Writing in Poetry	3
___	FILM	111F*	Basic Videomaking	3
___	HONS	260FA*	Honors: Fine Arts/Social Science-A	4
___	HONS	261FB*	Honors: Fine Arts/Social Science-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
___	SP	150CF	Video Communication	3
___	SP	160CF	Oral Interpretation	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

**SOCIAL SCIENCES (A, B) 6+ credits**

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

**Complete six (6) semester credits 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 Science-A/Mathematics	4
___	HONS	255AN*	Honors: Social Science-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

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

___	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	236GA	Introduction to Race and Ethnic Relations	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):**

___	ANTH	210NL*	Forensic Science I	4
___	ANTH	211NL*	Forensic Science II	4
___	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	170N* & 171L*	Principles of Biological Diversity and Lab	5
___	BIOB	256NL*	Intro Biol: Cells to Organisms	4
___	BIOB	258NL*	Intro Biol: Organism to Popltns	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	250N* & 251L*	Microbiology for Health Sciences and Lab	4
___	BIOM	260N* & 261L*	General Microbiology and Lab	5
___	BIOO	105NL	Introduction to Botany	3
___	BIOO	235NL	Rocky Mountain Flora	3
___	BIOO	262NL*	Introduction to Entomology	3
___	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	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	250N*	Microbiology for Health Sciences	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 Science-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

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





___	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	207GH	African-American Writers	3
___	LIT	246GH	Major Women Writers	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	236GA	Introduction to Race and Ethnic Relations	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

Additional degree requirements for the Associate of Science degree:

Mathematics (M) (selected from the list on page 50) and/or  
Natural Science (NL or N) 6+ credits

Complete six (6) credits from Mathematics (M) and/or  
Natural Science (NL or N).

Electives 20+/- credits

Total credits for the Associate of Science degree must be at least sixty (60) semester credits.

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**TOTAL CREDITS 60**

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

- \_\_\_ A. Fine Arts (F) 3 credits
- \_\_\_ B. Communications (C), Humanities (H),  
Social Sciences (A or B) or Writing (W) 3 credits
- \_\_\_ C. Communications (C), Global Issues (G),  
Humanities (H), Mathematics (M or Q),  
Natural Science (NL or N), Social Sciences (A or B),  
or Writing (W) 9 credits
- \_\_\_ D. A total of 75 semester credits numbered 100 or  
above.





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





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## 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.



## **Agribusiness Management** **Transfer Curricula**

Agribusiness is an exciting program connecting agricultural production and business to the distribution channels and ultimately the tables of American consumers. It involves the application of marketing, management, finance, and economic principles with agriculture, science, and technology as a foundation for jobs in the private sector and various government agencies.

### Associate of Science Degree

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

		<b>First Year</b>	
—	<u>Course #</u>	<u>Title</u>	<u>Credits</u>
—	ANSC 100	Introduction to Animal Science	3
—	BIOB 110	Plant Science	3
—	BIOB 170N*	Principles of Biological Diversity	3
—	BIOB 171L*	Principles of Biological Diversity Laboratory	2
or			
—	CHMY 121NL*	Introduction to General Chemistry	4
—	ECNS 101B	Economic Way of Thinking	3
—	ECNS 202GB	Principles of Macroeconomics	3
—	SP 110C	Public Speaking	3
—	WRIT 101W*	College Writing I	3
—	—	Humanities (H) Requirement	3
—	—	M 162M* or M 171M*	5
<b>First Year Total</b>			<b>30-31</b>

		<b>Second Year</b>	
—	<u>Course #</u>	<u>Title</u>	<u>Credits</u>
—	ACTG 201	Principles of Financial Accounting	4
—	ACTG 202*	Principles of Managerial Accounting	4
—	ENSC 245NL	Soils	4
—	STAT 216M*	Introduction to Statistics	4
—	—	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
—	—	WRIT 122C* or WRIT 201W*	3
<b>Second Year Total</b>			<b>31</b>
<b>Total Credits</b>			<b>61-62</b>

\*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 52 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.



## 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 Media and Theatre Arts department.

### Associate of Arts Degree

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

<b>First Year</b>			
—	Course #	Title	Credits
—	ARTH 200FGH	Art of World Civilization I	3
—	ARTZ 105F	Visual Language-Drawing	3
—	ARTZ 106F	Visual Language-2D 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
<b>First Year Total</b>			<b>30</b>

<b>Second Year</b>			
—	Course #	Title	Credits
—	ARTH 201FGH	Art of World Civilization II	3
—	ARTZ 108F*	Visual Language-3D Foundations	3
—	ARTZ 211*	Drawing I	3
—	ARTZ 221F	Painting I	3
—	ARTZ 222F*	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
<b>Second Year Total</b>			<b>30</b>

**Total Credits** **60<sup>1</sup>**

<sup>1</sup> 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.

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

<b>First Year</b>			
—	Course #	Title	Credits
—	ARTH 200FGH	Art of World Civilization I	3
—	ARTZ 105F	Visual Language-Drawing	3
—	ARTZ 106F	Visual Language-2D Foundations	3
—	ARTZ 231F	Ceramics I <sup>1,2</sup>	3
—	PHOT 113F	Understanding Photography	3
—	SP 110C	Public Speaking	3
—	WRIT 101W*	College Writing I	3
—	—	Humanities (H) or Global Issues (G) Requirement	3
—	—	Mathematics (M or Q) Requirement	3
—	—	Natural Science (NL) Requirement	3
<b>First Year Total</b>			<b>30</b>

<b>Second Year</b>			
—	Course #	Title	Credits
—	ARTH 201FGH	Art of World Civilization II	3
—	ARTJ 210F	Jewelry and Metalsmithing I <sup>1,2</sup>	3
—	ARTJ 211F*	Jewelry and Metalsmithing II <sup>1,2</sup>	3
—	ARTZ 108F*	Visual Language-3D Foundations	3
—	ARTZ 211*	Drawing I <sup>1</sup>	3
—	ARTZ 221F	Painting I <sup>1,2</sup>	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
<b>Second Year Total</b>			<b>30</b>

**Total Credits** **60**

<sup>1</sup>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

<sup>2</sup> 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.

### Advisors:

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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 FVCC 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 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 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.

### 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 52 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 **Rocky Mountain College Aviation Program** (this curriculum has some requirements specific to RMC's requirements as explained by the numbered notations):

<b>First Year</b>			
—	Course #	Title	Credits
—	AVFT 131	Private Pilot Ground School <sup>1</sup>	3
—	AVFT 132*	Private Pilot Flight Training (Fixed Wing)	
or			
—	AVFT 133*	Private Pilot Flight Training (Rotary Wing) <sup>1</sup>	3
—	M 152M*	Precalculus Algebra	4
—	M 162M*	Applied Calculus	5
—	PSCI 210B	Introduction to American Government	3
—	PSYX 100A	Introduction to Psychology	4
—	SP 110C	Public Speaking	3
—	WRIT 101W*	College Writing I	3
—	—	Health and Wellness Elective	1
—	—	Humanities (H) Requirement <sup>3</sup>	3
<b>First Year Total</b>			<b>32</b>
<b>Second Year</b>			
—	Course #	Title	Credits
—	PHSX 205NL*	College Physics I	5
—	SP 120C	Interpersonal Relations/Communications	3
—	STAT 216M*	Introduction to Statistics	4
—	WRIT 201W*	College Writing II	3
—	—	Humanities (H) or Fine Arts (F) Requirement <sup>3</sup>	3
—	—	Natural Science (NL or N) Requirement <sup>4</sup>	3
—	—	Pilot Course <sup>2</sup>	6
—	—	RLST 100G or RLST 220G	3
<b>Second Year Total</b>			<b>30</b>
<b>Total Credits</b>			<b>62</b>

#### 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.

<sup>1</sup>For students pursuing a professional pilot career. Students pursuing an Aviation management career should elect appropriate courses from the Management curriculum.

<sup>2</sup>Students should consult their advisor regarding their specific area of interest.

<sup>3</sup>One Humanities course should be a Literature course and the other an Art History course.

<sup>4</sup>To also work for RMC, this course should be either in Biology, Geology or Chemistry.

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

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## 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 (listed as Botanical or Zoological Sciences in previous catalogs), 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 below 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.

### 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 52 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:**

<b>First Year</b>			
—	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
—	M 162M*	Applied Calculus <sup>4</sup>	5
—	GEO 101NL	Introduction to Physical Geology <sup>4</sup>	4
or			
—	PHSX 205NL*	College Physics I <sup>3</sup>	5
—	WRIT 101W*	College Writing I	3
—	—	CHMY 121NL* <sup>1</sup> & CHMY 123NL* <sup>1</sup> or CHMY 141NL* <sup>2</sup> & CHMY 143NL* <sup>2</sup>	8-10
—	—	Humanities (H) Requirement	3
<b>First Year Total</b>			<b>32-35</b>
<b>Second Year</b>			
—	Course #	Title	Credits
—	BIOB 260NL*	Cellular and Molecular Biology	5
—	BIOB 272N*	Genetics and Evolution	4
—	PHSX 207NL*	College Physics II <sup>6</sup>	5
—	PSYX 100A	Introduction to Psychology <sup>5</sup>	
or			
—	—	Social Sciences (A) Requirement	3-4
—	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
<b>Second Year Total</b>			<b>33-34</b>
<b>Total Credits</b>			<b>65-69<sup>7</sup></b>

<sup>1</sup> If pursuing the Natural History option.

<sup>2</sup> 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\*, CHMY 143NL\*, CHMY 221NL\* and CHMY 223NL\*. If pursuing the Cellular or Molecular Biology or Microbiology options, take CHMY 141NL\*, CHMY 143NL\*, CHMY 221NL\* and CHMY 223NL\*.

<sup>3</sup> For all options other than Natural History, students can take either PHSX 121NL\* and PHSX 123NL\* or PHSX 210NL\* and PHSX 212NL\* if they desire to take the Calculus I and II series rather than M 162M\*.

<sup>4</sup> If pursuing the Natural History option, student should take M 115M\* instead of M 162M\* and take GEO 101NL instead of Physics.

<sup>5</sup> Required for Human Biological Sciences option as the SSA requirement.

<sup>6</sup> If doing the Physics sequence rather than the GEO 101NL course choice.

<sup>7</sup> 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

If time permits, students pursuing the Natural History, Ecology or Ecology and Organismal Biology option may consider taking the following course:

—	BIOO 235NL	Rocky Mountain Flora	3
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\*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**:

<b>First Year</b>			
Course #	Title		Credits
___ BIOB 160NL	Principles of Living Systems <sup>1</sup>		4
___ BIOB 170N*	Principles of Biological Diversity <sup>1</sup>		3
___ BIOB 171L*	Principles of Biological Diversity Lab <sup>1</sup>		2
___ WRIT 101W*	College Writing I		3
___	CHMY 121NL* & CHMY 123NL* or CHMY 141NL* <sup>2</sup> & CHMY 143NL* <sup>2</sup>	8-10	
___	M 162M* or M 171M* <sup>3</sup>	5	
___	PHSX 205NL* or PHSX 210NL* <sup>4</sup>	5-6	
___	Humanities (H) Requirement		3
<b>First Year Total</b>			<b>33-36</b>
<b>Second Year</b>			
Course #	Title		Credits
___ STAT 216M*	Introduction to Statistics		4
___	PHSX 207NL* or PHSX 212NL* <sup>4</sup>	5-6	
___	SP 110C <sup>6</sup> , WRIT 121C* <sup>6</sup> , WRIT 201W* <sup>6</sup> , or Communications (C) Requirement	3	
___	Elective <sup>5</sup> or M 172M* <sup>3</sup>	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
<b>Second Year Total</b>			<b>27-30</b>
<b>Total Credits</b>			<b>60-66</b>

<sup>1</sup> If pursuing the Biomedical Sciences or Cell Biology and Neuroscience option, students should take BIOB 256NL\* the first year and BIOB 258NL\* (Fall) and BIOB 260NL\* (Spring) of second year.

<sup>2</sup> If pursuing the Ecology and Evolution option, students may select either chemistry sequence. If pursuing the Organismal Biology or Biomedical Sciences or Cell Biology and Neuroscience option, students should take CHMY 141NL\* and CHMY 143NL\*.

<sup>3</sup> If pursuing the Cell Biology and Neuroscience option, students should take M 171M\* and M 172M\*. For all other options, students should consult with their advisor for the best course selection.

<sup>4</sup> 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\*.

<sup>5</sup> 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
___ BIOH 211NL*	Human Anatomy and Physiology II	4
___ BIOM 250N*	Microbiology for Health Sciences	3
___ CHMY 221NL*	Organic Chemistry I	5
___ CHMY 223NL*	Organic Chemistry II	5
___ WRIT 201W*	College Writing II	3

<sup>6</sup>For the Biomedical Sciences option take WRIT 121C\* instead.

<sup>7</sup>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

## Associate of Science Degree

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

<b>First Year</b>			
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
<b>First Year Total</b>			<b>34</b>
<b>Second Year</b>			
Course #	Title		Credits
___ CAPP 156*	MS Excel		3
___ PHSX 205NL*	College Physics I		5
___ PHSX 207NL*	College Physics II		5
___ SP 110C	Public Speaking <sup>6</sup>		3
___ 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
<b>Second Year Total</b>			<b>32</b>
<b>Total Credits</b>			<b>66<sup>1</sup></b>

<sup>1</sup>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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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.

## 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**

<u>First Year</u>			
Course	#	Title	Credits
___	BIOB	160NL Principles of Living Systems	4
___	BIOM	260N* General Microbiology	3
___	BIOM	261L* General Microbiology Lab	2
___	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
<b>First Year Total</b>			<b>33-34</b>
<u>Second Year</u>			
Course	#	Title	Credits
___	BIOB	105NL Introduction to Biotechnology	3
___	BIOB	260NL* Cellular and Molecular Biology	5
___	BIOB	275N* General Genetics	4
___	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
<b>Second Year Total</b>			<b>34-35</b>
<b>Total Credits</b>			<b>67-69</b>

\*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.

## 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:**

<u>First Year</u>			
Course	#	Title	Credits
___	BGEN	235 Business Law	4
___	BMIS	211* Introduction to Business Decision Support	4
___	ECNS	201B Principles of Microeconomics	3
___	ECNS	202GB Principles of Macroeconomics	3
___	M	115M* Probability and Linear Mathematics <sup>1</sup>	3
___	SP	110C Public Speaking	3
___	WRIT	101W* College Writing I	3
___	___	Electives	3
___	___	Humanities (H) Requirement	3
___	___	Natural Science (NL) Requirement	3
<b>First Year Total</b>			<b>32</b>
<u>Second Year</u>			
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
<b>Second Year Total</b>			<b>30</b>
<b>Total Credits</b>			<b>62</b>

<sup>1</sup> 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* <sup>1</sup> or Electives		3
	Humanities (H) Requirement		3
	Natural Science (NL) Requirement		3
	Social Sciences (A) Requirement		3
	<b>First Year Total</b>		<b>30</b>
Second Year			
Course #	Title		Credits
ACTG 201	Principles of Financial Accounting		4
ACTG 202*	Principles of Managerial Accounting		4
ECNS 202GB	Principles of Macroeconomics		3
STAT 216M*	Introduction to Statistics		4
	Elective <sup>2</sup>		3
	Elective <sup>2</sup>		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
	<b>Second Year Total</b>		<b>30</b>
	<b>Total Credits</b>		<b>60</b>

<sup>1</sup> If pursuing finance option.

<sup>2</sup> 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.

## 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
ECNS 201B	Principles of Microeconomics		3
M 115M*	Probability and Linear Mathematics		3
SP 110C	Public Speaking		
or			
SP 120C	Interpersonal Relations/ Communications		3
WRIT 101W*	College Writing I		3
	Social Sciences (A) Requirement		3-4
	Natural Science (NL) Requirement		3-4
	Humanities (H) Requirement		3
	<b>First Year Total</b>		<b>32-34</b>
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
	Humanities (H) or Fine Arts (F) Requirement		3
	Natural Science (N) Requirement		3
	Additional Degree Requirement <sup>1</sup>		3
	<b>Second Year Total</b>		<b>32</b>
	<b>Total Credits</b>		<b>64-66</b>

<sup>1</sup> 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 52 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.

<b>First Year</b>			
Course #	Title		Credits
___ BMIS 211*	Introduction to Business Decision Support		4
or			
___ CAPP 131*	Basic MS Office <sup>1</sup>		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		<u>3-5</u>
	<b>First Year Total</b>		<b>30-32</b>
<b>Second Year</b>			
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		<u>3</u>
	<b>Second Year Total</b>		<b>30</b>
	<b>Total Credits</b>		<b>60-62</b>

\*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 52 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.*

#### 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
<b>First Semester Total</b>			<b>17</b>

##### Spring Semester

Course #	Title	Credits
— CHMY 143NL*	College Chemistry II	5
— M 172M*	Calculus II	5
— PHSX 210NL*	General Physics I	6
<b>Second Semester Total</b>		<b>16</b>

##### Summer Semester

Course #	Title	Credits
—	Global Issues (G) Requirement	3
—	Social Sciences (A) Requirement	3
—	Social Sciences (B) Requirement	3
<b>Third Semester Total</b>		<b>9</b>

##### Second Year

Fall Semester	Course #	Title	Credits
—	CHMY 221NL*	Organic Chemistry I	5
—	M 273M*	Multivariable Calculus <sup>1</sup>	5
—	PHSX 212NL*	General Physics II	6
—	—	Humanities (H) Requirement	3
<b>First Semester Total</b>			<b>19</b>

##### Spring Semester

Course #	Title	Credits
— CHMY 223NL*	Organic Chemistry II	5
— M 221M*	Introduction to Linear Algebra <sup>1</sup>	4
—	Communications (C) Requirement	3
—	Humanities (H) or Fine Arts (F) Requirement	3
<b>Second Semester Total</b>		<b>15</b>

**Total Credits 76\*\***

\*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

<sup>1</sup> Bachelor of Science Chemistry majors require these mathematics courses. The other options listed above only require M 171M\* and M 172M\*.



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
<b>First Semester Total</b>				<b>16</b>

Spring Semester				
Course #	Title			Credits
CHMY 143NL*	College Chemistry II			5
M 172M*	Calculus II			5
PHSX 210NL*	General Physics I <sup>1</sup>			6
<b>Second Semester Total</b>				<b>16</b>

Summer Semester				
Course #	Title			Credits
—	—	Communications (C) Requirement		3
—	—	Humanities (H) Requirement		3
—	—	Social Sciences (B) Requirement		3
<b>Third Semester Total</b>				<b>9</b>

Second Year				
Fall Semester	Course #	Title		Credits
—	CHMY 221NL*	Organic Chemistry I		5
—	M 273M*	Multivariable Calculus		5
—	PHSX 212NL*	General Physics II <sup>1</sup>		6
<b>First Semester Total</b>				<b>16</b>

Spring Semester				
Course #	Title			Credits
BCH 280N*	Biochemistry			3
BCH 281L*	Biochemistry Lab			2
CHMY 223NL*	Organic Chemistry II			5
—	—	Humanities (H) or Fine Arts (F) Requirement		3
—	—	Global Issues (G) Requirement		3
<b>Second Semester Total</b>				<b>16</b>

**Total Credits** 73

<sup>1</sup> 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.

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
<b>First Semester Total</b>				<b>17</b>

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
<b>Second Semester Total</b>				<b>18</b>

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
<b>First Semester Total</b>				<b>19</b>

Spring Semester				
Course #	Title			Credits
BCH 280N*	Biochemistry			3
BCH 281L*	Biochemistry Lab			2
CHMY 223NL*	Organic Chemistry II			5
—	—	Global Issues (G) Requirement		3
—	—	Humanities (H) or Fine Arts (F) Requirement		3
<b>Second Semester Total</b>				<b>16</b>

**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:

<u>First Year</u>			
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
<b>First Semester Total</b>			<b>16</b>

<u>Spring Semester</u>			
Course #	Title	Credits	
—	CHMY 143NL*	College Chemistry II	5
—	M 172M*	Calculus II	5
—	PHSX 205NL*	College Physics I	5
—	—	Communications (C) Requirement	3
<b>Second Semester Total</b>			<b>18</b>

<u>Summer Semester</u>			
Course #	Title	Credits	
—	—	Global Issues (G) Requirement	3
—	—	Humanities (H) Requirement	3
<b>Third Semester Total</b>			<b>6</b>

<u>Second Year</u>			
Fall Semester	Course #	Title	Credits
—	BIOB 160NL	Principles of Living Systems	4
—	CHMY 221NL*	Organic Chemistry I	5
—	PHSX 207NL*	College Physics II	5
—	—	Humanities (H) or Fine Arts (F) Requirement	3
<b>First Semester Total</b>			<b>17</b>

<u>Spring Semester</u>			
Course #	Title	Credits	
—	BIOB 260NL*	Cellular and Molecular Biology	5
—	BIOM 250N*	Microbiology for Health Sciences	3
—	BIOM 251L*	Microbiology for Health Sciences Lab	1
—	CHMY 223NL*	Organic Chemistry II	5
—	STAT 216M*	Introduction to Statistics	4
—	—	Social Sciences (B) Requirement	3-4
<b>Second Semester Total</b>			<b>16-18</b>
<b>Total Credits</b>			<b>73-75</b>

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.

<sup>1</sup> 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.

Advisors:

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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.

## 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:**

<u>First Year</u>			
Course #	Title	Credits	
—	M 115M*	Probability and Linear Mathematics	3
—	SP 110C	Public Speaking	3
—	SP 120C	Interpersonal Relations/Communications	3
—	WRIT 101W*	College Writing I	3
—	—	Electives	3
—	—	Electives	3
—	—	Fine Arts (F) Requirement	3
—	—	LIT 110H <sup>3</sup> or LIT 112H <sup>3</sup>	3
—	—	or Humanities (H) Requirement <sup>1,2</sup>	
—	—	Natural Science (NL) Requirement	3
—	—	PSYX 100A <sup>2</sup> , SOCI 101A <sup>1</sup> or Social Sciences (A) Requirement <sup>3</sup>	3-4
<b>First Year Total</b>			<b>30-31</b>

<u>Second Year</u>			
Course #	Title	Credits	
—	SP 215	Negotiations/Conflict Resolution	3
—	STAT 216M*	Introduction to Statistics	4
—	—	ANTY 220G <sup>1</sup> or SOCI 236GA <sup>2,3</sup>	3
—	—	Electives	3
—	—	Electives	3
—	—	HSTA 102B <sup>3</sup> or Social Sciences (B) Requirement <sup>1,2</sup>	3-4
—	—	Natural Science (NL or N) Requirement	3
—	—	PSCI 250HB <sup>3</sup> or Humanities (H) Requirement <sup>1,2</sup>	3
—	—	PSYX 230A* <sup>2</sup> or Electives <sup>1,3</sup>	3
—	—	PSYX 260A* <sup>2</sup> or Electives <sup>1,3</sup>	3
<b>Second Year Total</b>			<b>31-32</b>

**Total Credits 61-63**

<sup>1</sup> If pursuing the Organizational Communication option.

<sup>2</sup> If pursuing the Communication and Human Relationships option.

<sup>3</sup> If pursuing the Rhetoric and Public Discourse option.

\*Indicates prerequisite and/or corequisite needed.

Check course description.

Advisor:

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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
<b>First Semester Total</b>			<b>15</b>

##### Spring Semester

—	Course #	Title	Credits
—	CSCI 121*	Programming with Java II	4
—	M 172M*	Calculus II	5
—	SP 110C	Public Speaking	3
—	—	Natural Science (NL) Requirement <sup>1</sup>	_3-6
<b>Second Semester Total</b>			<b>15-18</b>

#### 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) Requirement <sup>2</sup>	3
—	—	Social Sciences (A) Requirement	_3
<b>First Semester Total</b>			<b>16</b>

##### 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

<sup>1</sup>PHSX 210NL\* is preferred.

<sup>2</sup>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.

#### Advisor:

Nick Thiel  
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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 52 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.

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

<b>First Year</b>			
<b>Fall Semester</b>			
___	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
<b>First Semester Total</b>			<b>15</b>
<b>Spring Semester</b>			
___	Course #	Title	Credits
___	CSCI 121*	Programming with Java II	4
___	M 172M*	Calculus II	5
___	SP 110C	Public Speaking	3
___	___	Natural Science (NL) Requirement <sup>1</sup>	5-6
<b>Second Semester Total</b>			<b>17-18</b>
<b>Second Year</b>			
<b>Fall Semester</b>			
___	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
<b>First Semester Total</b>			<b>16-17</b>
<b>Spring Semester</b>			
___	Course #	Title	Credits
___	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
<b>Second Semester Total</b>			<b>14</b>
<b>Total Credits</b>			<b>62-64</b>

<sup>1</sup>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.

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:**

<b>First Year</b>			
<b>Fall Semester</b>			
___	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
<b>First Semester Total</b>			<b>19</b>
<b>Spring Semester</b>			
___	Course #	Title	Credits
___	CSCI 121*	Programming with Java II	4
___	M 172M*	Calculus II	5
___	PHSX 210NL*	General Physics I <sup>1</sup>	6
___	SP 110C	Public Speaking	3
<b>Second Semester Total</b>			<b>18</b>
<b>Second Year</b>			
<b>Fall Semester</b>			
___	Course #	Title	Credits
___	M 221M*	Introduction to Linear Algebra	4
___	M 225M*	Introduction to Discrete Mathematics	4
___	PHSX 212NL*	General Physics II <sup>1</sup>	6
<b>First Semester Total</b>			<b>14</b>
<b>Spring Semester</b>			
___	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
<b>Second Semester Total</b>			<b>16</b>
<b>Total Credits</b>			<b>67**</b>

<sup>1</sup> 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

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## Criminal Justice Transfer Curricula

The Criminal Justice program at the **University of Great Falls, The University of Montana - Missoula or Montana State University - Billings** prepares students for employment in public and private criminal justice agencies, law enforcement agencies, as well as correctional, probation, and parole organization. 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.

### 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
___ CJ	220	Corrections	3
___ CJ	225	Criminal Law	3
___ CJ	231*	Criminal Procedure	2
___ CJ	271*	Seminar (Courts)	1
___ M	115M*	Probability and Linear Mathematics	3
___ PSYX	100A	Introduction to Psychology	4
___ or			
___ SOCI	101A	Introduction to Sociology	3
___ SOCI	121A	Introduction to Criminal Justice	3
___ SP	110C	Public Speaking	3
___ WRIT	101W*	College Writing I	3
___	___	Fine Arts (F) Requirement <sup>1</sup>	3
___	___	RLST 100G or RLST 220G	3
<b>First Year Total</b>			<b>33-34</b>

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 or Natural Science (NL or N) Requirement	4
___	___	Social Sciences (B) Requirement	3-4
<b>Second Year Total</b>			<b>28-29</b>

**Total Credits 61-63**

<sup>1</sup>Needed to satisfy a UGF Fine Arts requirement and the second AS Humanities/Fine Arts requirement.

Most 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 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 this major.

\*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
___ CJ	230	Police Organization and Behavior	3
___ M	115M*	Probability and Linear Mathematics	3
___ PSCI	210B	Introduction to American Government	3
___ SOCI	101A	Introduction to Sociology	3
___ SOCI	121A	Introduction to Criminal Justice	3
___ WRIT	101W*	College Writing I	3
___	___	Communications (C) Requirement	3
___	___	Electives <sup>1</sup>	3
___	___	Electives <sup>1</sup>	3
___	___	Humanities (H) Requirement	3
<b>First Year Total</b>			<b>30</b>

Second Year			
Course	#	Title	Credits
___ CHMY	280NL*	Forensic Science I	4
___ CJ	231*	Criminal Procedure	2
___ CJ	271*	Seminar (Courts)	1
___ SOCI	236GA	Introduction to Race and Ethnic Relations	3
___ STAT	216M*	Introduction to Statistics	4
___	___	Electives <sup>1</sup>	3
___	___	Electives	4
___	___	Humanities (H) or Fine Arts (F) Requirement	3
___	___	Fine Arts (F) Requirement	3
___	___	Natural Science (NL or N) Requirement <sup>2</sup>	3-4
<b>Second Year Total</b>			<b>30-31</b>
<b>Total Credits</b>			<b>60-61</b>

<sup>1</sup> Suggested electives include PSYX 100A, PSYX 150 and PSYX 240A\*.

<sup>2</sup> 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.

\*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 52 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 perform 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 fluoride and sealant placement.

Montana State University - Great Falls College of Technology 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 Montana State University - Great Falls College of Technology.

### Associate of Science Degree

Suggested course of study for a transfer to  
**Montana State University - Great Falls College of Technology** in pre-dental hygiene:

<u>First Year</u>			
<b>Fall Semester</b>			
—	Course #	Title	Credits
—	BIOB 160NL	Principles of Living Systems	4
—	BIOH 201NL*	Human Anatomy and Physiology I	4
—	M 121M*	College Algebra <sup>1,3</sup>	
	or		
—	M 145Q*	Mathematics for the Liberal Arts	3
—	PSYX 100A	Introduction to Psychology <sup>2</sup>	4
—	WRIT 101W*	College Writing I	3
<b>First Semester Total</b>			<b>18</b>
<b>Spring Semester</b>			
—	Course #	Title	Credits
—	BIOH 211NL*	Human Anatomy and Physiology II	4
—	BIOM 250N*	Microbiology for Health Sciences	3
—	BIOM 251L*	Microbiology for Health Sciences Lab	1
—	CHMY 121NL*	Introduction to General Chemistry	4
—	SOC 101A	Introduction to Sociology <sup>2</sup>	3
—	—	SP 110C or SP 120C <sup>2</sup>	3
<b>Second Semester Total</b>			<b>18**</b>

\*\*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

<b>Fall Semester</b>			
—	Course #	Title	Credits
—	CHMY 160	Pharmacology <sup>2</sup>	3
—	—	Electives	3
—	—	Electives	3
—	—	Humanities (H) Requirement	3
<b>First Semester Total</b>			<b>12</b>
<b>Spring Semester</b>			
—	Course #	Title	Credits
—	—	Electives	3
—	—	Global Issues (G) Requirement	3
—	—	Humanities (H) or Fine Arts (F) Requirement	3
—	—	Social Sciences (B) Requirement	3
<b>Second Semester Total</b>			<b>12</b>
<b>Total Credits</b>			<b>60</b>

<sup>1</sup> To earn the AS degree, either will suffice as the prerequisite for the MSU- Great Falls COT.

<sup>2</sup> Program requirements which can be taken at FVCC to lighten the load when the student is in the MSU- Great Falls COT Dental Hygiene program.

<sup>3</sup> Required at Northern Wyoming Community College. Additional requirements at Northern Wyoming Community College are NUTR 221N\* and WRIT 121\* or WRIT 201\*.

\*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 52 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.*



## 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:**

<b>First Year</b>			
—	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* <sup>1</sup> & M 172M* <sup>1</sup>	9-10
—	—	Communications (C) Requirement	3
—	—	Electives	3
—	—	Electives	3
—	—	Electives	3
—	—	Humanities (H) Requirement	3
<b>First Year Total</b>			<b>36-37</b>

<b>Second Year</b>			
—	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
<b>Second Year Total</b>			<b>28</b>
<b>Total Credits</b>			<b>64-65</b>

<sup>1</sup> If student has intention of going to graduate school.

*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:**

<b>First Year</b>			
—	Course #	Title	Credits
—	ECNS 201B	Principles of Microeconomics <sup>1</sup>	3
—	ECNS 202GB	Principles of Macroeconomics	3
—	M 115M*	Probability and Linear Mathematics	3
—	SP 110C	Public Speaking	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
<b>First Year Total</b>			<b>34</b>

<b>Second Year</b>			
—	Course #	Title	Credits
—	ACTG 201	Principles of Financial Accounting	4
—	M 162M*	Applied Calculus	3
—	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
<b>Second Year Total</b>			<b>30</b>
<b>Total Credits</b>			<b>64</b>

<sup>1</sup> 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.

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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 52 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 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. Students should consult their advisors and their transfer institutions for specific recommendations.

## **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. Students transferring to **The University of Montana - Missoula, University of Great Falls, Montana State University - Bozeman, The University of Montana - Western, Montana State University - Billings, and Montana State University - Northern** should take the PPST during their sophomore year at FVCC. Test information can be obtained from the Learning or Career Center.

### Associate of Arts Degree

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

		<b>First Year</b>		
—	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	
<b>First Year Total</b>			<b>34</b>	

		<b>Second Year</b>		
—	Course #	Title	Credits	
—	HLTH 230	School Health	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	
—	—	HLTH 201 or current CPR card	0-2	
—	—	Humanities (H) or Fine Arts (F) Requirement	3	
<b>Second Year Total</b>			<b>31-33</b>	

**Total Credits** **65-67<sup>1</sup>**

<sup>1</sup> 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:**

<b>First Year</b>			
Course #	Title		Credits
___ BIOB 160NL	Principles of Living Systems		4
___ CAPP 120	Introduction to Computers		3
___ EDU 201	Introduction to Education with Field Experience		3
___ EDU 297	Methods: K-8 Art		3
___ EDUC 256	Instruction of Special Students		3
___ HLTH 230	School Health		3
___ HSTA 101B	American History I		4
___ HSTA 102B	American History II		4
___ M 115M*	Probability and Linear Mathematics <sup>3</sup>		3
___ SP 110C	Public Speaking		3
___ WRIT 101W*	College Writing I		3
___ _____	Fine Arts (F) Requirement		<u>3</u>
	<b>First Year Total</b>		<b>39</b>
<b>Second Year</b>			
Course #	Title		Credits
___ EDU 242	Introduction to Gifted Education		2
___ EDU 270	Instructional Technology <sup>1</sup>		3
___ EDU 297	Methods: K-8 Music		3
___ GPHY 141GA	Geography of World Regions		3
___ LIT 110H	Introduction to Literature <sup>2</sup>		
___ 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 <sup>3</sup>		4
___ WRIT 201W*	College Writing II		3
___ _____	Humanities (H) or Fine Arts (F) Requirement		3
___ _____	RLST 100G or RLST 220G		<u>3</u>
	<b>Second Year Total</b>		<b>44</b>
	<b>Total Credits</b>		<b>83</b>

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.

<sup>1</sup> Students should take this class near the end of their AA completion.

<sup>2</sup> Required if the student's concentration will be Communication Arts, otherwise either will work.

<sup>3</sup> 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:**

<b>First Year</b>			
Course #	Title		Credits
___ BIOB 160NL	Principles of Living Systems		4
___ 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
___ SP 110C	Public Speaking		3
___ WRIT 101W*	College Writing I		3
___ _____	CHMY 121NL* or NSCI 103NL*		4
___ _____	HSTA 101B or HSTA 102B		<u>4</u>
	<b>First Year Total</b>		<b>30</b>
<b>Second Year</b>			
Course #	Title		Credits
___ ASTR 110N	Introduction to Astronomy <sup>1</sup>		3
___ EDU 270	Instructional 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 101A	Introduction to Psychology <sup>2</sup>		4
___ _____	Fine Arts (F) Requirement <sup>3</sup>		3
___ _____	GEO 100NL or GPHY 111NL		4
___ _____	Humanities (H) or Fine Arts (F) Requirement		<u>3</u>
	<b>Second Year Total</b>		<b>32</b>
	<b>Total Credits</b>		<b>62</b>

<sup>1</sup> Students wanting to have math as their area of concentration should take M 152M\* instead.

<sup>2</sup> If time and course load permit, also take PSYX 230A\* while at FVCC.

<sup>3</sup> Should be a studio arts, art history or music class.

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





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

<b>First Year</b>			
Course #	Title		Credits
ARTZ 105F	Visual Language-Drawing		3
BIOB 160NL	Principles of Living Systems		4
CAPP 106*	Short Courses: Computer Applications <sup>1</sup>		1
CAPP 131*	Basic MS Office <sup>1</sup>		2
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
SP 110C	Public Speaking		3
WRIT 101W*	College Writing I		3
_____	Humanities (H) Requirement <sup>2</sup>		3
_____	Social Sciences (A) Requirement		3
<b>First Year Total</b>			<b>33</b>
<b>Second Year</b>			
Course #	Title		Credits
EDU 270	Instructional Technology		3
GEO 101NL	Introduction to Physical Geology		4
HLTH 230	School Health		3
M 135Q*	Mathematics for K-8 Teachers I <sup>3</sup>		5
M 136Q*	Mathematics for K-8 Teachers II <sup>3</sup>		4
THTR 101FH	Introduction to Theatre		3
_____	CHMY 121NL* or NSCI 103NL*		4
_____	HLTH 201 or current CPR card		0-2
_____	HSTA 101B or HSTA 102B		4
_____	Global Issues (G) or Social Sciences (A) Requirement		3
<b>Second Year Total</b>			<b>33-35</b>
<b>Total Credits</b>			<b>66-68</b>

<sup>1</sup>UM-Western requires a computer competency exam. Having the skills from these courses should prepare the student for this competency exam.

<sup>2</sup>Any literature course plus EDCE 135\* will fulfill the UM-Western literature requirement.

<sup>3</sup>Students could take a different general education math class instead. However, M 135Q and M136Q will satisfy a professional sequence of mathematics methods courses at UM - Western, but both must be taken to do so.

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

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

<b>First Year</b>			
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
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
SP 120C	Interpersonal Relations/Communications		3
WRIT 101W*	College Writing I		3
<b>First Year Total</b>			<b>32</b>
<b>Second Year</b>			
Course #	Title		Credits
HLTH 230	School Health		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 <sup>2</sup>		6
_____	Fine Arts (F) Requirement		3
_____	Humanities (H) or Fine Arts (F) Requirement		3
<b>Second Year Total</b>			<b>30</b>
<b>Total Credits</b>			<b>62<sup>1</sup></b>

<sup>1</sup> If course load allows, students could also take HLTH 203 to fulfill another health requirement at MSU - Northern.

<sup>2</sup> 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:

<b>First Year</b>			
Course #	Title		Credits
___ BIOB 160NL	Principles of Living Systems		4
___ EDU 201	Introduction to Education with Field Experience		3
___ GPHY 121GA	Human Geography		3
or			
___ HSTR 102B	Western Civilization II		4
___ HLTH 230	School Health		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
___ SP 110C	Public Speaking		3
___ WRIT 101W*	College Writing I		3
<b>First Year Total</b>			<b>31-32</b>

<b>Second Year</b>			
Course #	Title		Credits
___ EDUC 256	Instruction of Special Students		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, HUM 261H, HUM 262H, LIT 240H, PHL 101H or PHL 110H		3-4
<b>Second Year Total</b>			<b>33-34</b>

**Total Credits** 64-66<sup>1</sup>

<sup>1</sup> If time permits, take EDU 221\* Educational Psychology and Measurement.

\*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
<b>ARTZ 105F</b>	Visual Language-Drawing	Not Required	Not Required	ARTZ 105F Recommended	Not Required	Not Required	Required
<b>BIOB 160NL</b>	Principles of Living Systems	Required	Required	Required <sup>1</sup>	Required	or BIOH 104N and BIOH 105L*	Required
<b>CAPP 131*</b>	Basic MS Office	Not Required	Take CAPP 120 Instead	Not Required	Not Required	Not Required	Recommended
<b>CHMY 121NL*</b>	Introduction to General Chemistry	Not Required	Not Required	CHMY 121NL* <sup>1</sup> or NSCI 103NL* <sup>1</sup>	Not Required	Not Required	CHMY 121NL* or NSCI 103NL*
<b>EDU 201</b>	Introduction to Education with Field Experience	Required	Required	Required	Required	Required	Required
<b>EDU 242</b>	Introduction to Gifted Education	Not Required	Required	Not Required	Not Required	Not Required	Not Required
<b>EDU 270</b>	Instructional Technology	Recommended**	Required	Recommended**	Not Required	Recommended**	Recommended**
<b>EDU 297</b>	Methods: K-8 Art	Recommended**	Required	Not Required	Not Required	Not Required	Not Required
<b>EDU 297</b>	Methods: K-8 Music	Not Required	Required	Not Required	Not Required	Not Required	Not Required
<b>EDUC 256</b>	Instruction of Special Students	Not Required	Required	Not Required	Required	Not Required	Not Required
<b>GEO 100NL</b>	Introduction to Earth Science	Required	Not Required	GEO 100NL <sup>1</sup> or GEO 101NL <sup>1</sup>	Not Required	Not Required	Not Required
<b>GEO 101NL</b>	Introduction to Physical Geology	Not Required	Not Required	Not Required	Not Required	Not Required	Required
<b>GPHY 121GA</b>	Human Geography	GPHY 121GA or GPHY 141GA	Not Required	GPHY 121GA or GPHY 141GA	Required or HSTR 102B	Not Required	Not Required
<b>GPHY 141GA</b>	Geography of World Regions	GPHY 121GA or GPHY 141GA	Required	GPHY 121GA or GPHY 141GA	Not Required	Not Required	Not Required
<b>HLTH 201</b>	First Aid	HLTH 201 or current CPR card	Not Required	Not Required	Not Required	HLTH 201 or current CPR card	HLTH 201 or current CPR card
<b>HLTH 230</b>	School Health	Required	Required	Required	Required	Required	Required
<b>HSTA 101B</b>	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
<b>HSTA 102B</b>	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

<sup>1</sup> 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.

*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 (cont'd)*

	FVCC	UM - Missoula	UGF	MSU - Bozeman	MSU - Billings	MSU - Northern	UM - Western
<b>HSTA 255B</b>	Montana History	Required	Not Required	Not Required	Not Required	Required	Not Required
<b>HSTR 102B</b>	Western Civilization II	Not Required	Not Required	Not Required	GPHY 121GA or HSTR 102B	Not Required	Not Required
<b>LIT 110H</b>	Introduction to Literature	Any literature course from the Humanities(H) Requirement	Required	Not Required	Not Required	Required	Required
<b>M 135Q*</b>	Mathematics for K-8 Teachers I	Required	Required	Required	Required	Required	Recommended
<b>M 136Q*</b>	Mathematics for K-8 Teachers II	Required	Required	Required	Required	Take M 121M* instead	Recommended
<b>MUSI 101F</b>	Enjoyment of Music	Not Required	Not Required	ARTH 200FGH, ARTH 201FGH, ARTZ105F, MUSI 101F or MUSI 207FG	Required	Not Required	Not Required
<b>NASX 105G</b>	Introduction to Native American Studies	NASX 105G* or NASX 232G	Not Required <sup>1</sup>	NASX 232G instead	Required	Required	Not Required <sup>1</sup>
<b>NASX 232G</b>	Montana Indians: Cultures, Histories, Current Issues	NASX 105G* or NASX 232G	Not Required <sup>1</sup>	Required	Not Required	Not Required	Not Required <sup>1</sup>
<b>NSCI 102NL*</b>	The Nature of Science	Not Required	Required	Not Required	Not Required	Not Required	Not Required
<b>NSCI 103NL*</b>	Basic Physical Science	Required	Required	CHMY 121NL* or NSCI 103NL*	Required	Required	CHMY 121NL* or NSCI 103NL*
<b>PSCI 210B</b>	Introduction to American Government	Required	Not Required	Required	Required	Required	Required
<b>PSYX 100A</b>	Introduction to Psychology	Required	Not Required	Required	Required	Required	Not Required
<b>PSYX 230A*</b>	Developmental Psychology	Not Required	Not Required	Recommended	Required	Required	Not Required
<b>RLST 100G</b>	Introduction to the Study of Religion	Not Required	RLST 100G or RLST 220G	Not Required	Not Required	Not Required	Not Required
<b>SP 110C</b>	Public Speaking	Not Required	Required	Required	Required	Take SP 120C Instead	Required
<b>WRIT 101W*</b>	College Writing I	Required	Required	Required	Required	Required	Required
<b>WRIT 201W*</b>	College Writing II	Not Required	Required	Not Required	Required	Not Required	Not Required

<sup>1</sup> Students at these campuses fulfill the Native American Studies requirement through an upper division Multi-cultural 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
HLTH 201	First Aid	2
HLTH 230	School Health	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:

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-2D Foundations		3
ARTZ 108F*	Visual Language-3D 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
<b>First Year Total</b>			<b>34</b>

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
HLTH 230	School Health		3
_____	NASX 105G or NASX 232G		3
_____	Communications (C) Requirement		3
_____	HLTH 201 or current CPR card		0-2
_____	Natural Science (NL) Requirement		3
_____	Social Sciences (B) Requirement		3
<b>Second Year Total</b>			<b>30-32</b>
<b>Total Credits</b>			<b>64-66<sup>1</sup></b>

<sup>1</sup> 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:

<u>First Year</u>			
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
<b>First Year Total</b>			<b>35</b>

<u>Second Year</u>			
Course #	Title		Credits
___ BIOB 260NL*	Cellular and Molecular Biology		5
___ BIOB 275N*	General Genetics		4
___ EDU 201	Introduction to Education with Field Experience		3
___ HLTH 230	School Health		3
___ PHSX 205NL*	College Physics I		5
___ STAT 216M*	Introduction to Statistics		4
___ _____	Communications (C) Requirement		3
___ _____	HLTH 201 or current CPR card		0-2
___ _____	Humanities (H) or Fine Arts (F) Requirement		3
___ _____	Social Sciences (B) Requirement		3
<b>Second Year Total</b>			<b>33-35</b>

**Total Credits** 68-70<sup>1</sup>

<sup>1</sup> 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 52 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:

<u>First Year</u>			
Course #	Title		Credits
___ BGEN 235	Business Law		4
___ BMIS 211*	Introduction to Business Decision Support		4
___ 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
___ SP 110C	Public Speaking		3
___ WRIT 101W*	College Writing I		3
___ _____	Humanities (H) Requirement		3
___ _____	Natural Science (NL) Requirement		3
___ _____	NASX 105G or NASX 232G		3
<b>First Year Total</b>			<b>35</b>

<u>Second Year</u>			
Course #	Title		Credits
___ ACTG 201	Principles of Financial Accounting		4
___ ACTG 202*	Principles of Managerial Accounting		4
___ BMIS 270*	MIS Foundations for Business		3
___ HLTH 230	School Health		3
___ PSYX 100A	Introduction to Psychology		4
___ STAT 216M*	Introduction to Statistics		4
___ _____	Fine Arts (F) Requirement		3
___ _____	HLTH 201 or current CPR card		0-2
___ _____	Humanities (H) or Fine Arts (F) Requirement		3
___ _____	Natural Science (NL or N) Requirement		3
<b>Second Year Total</b>			<b>31-33</b>

**Total Credits** 66-68<sup>1</sup>

<sup>1</sup> If time allows, students could take EDU 221\* and EDU 270.

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

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## Secondary Education – English

### Associate of Arts Degree

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

<u>First Year</u>			
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
	ENGL 252F, ENGL 272* or LIT 120H		3
	Fine Arts (F) Requirement		3
	Natural Science (NL) Requirement		3
<b>First Year Total</b>			<b>31</b>

<u>Second Year</u>			
Course #	Title		Credits
EDU 221*	Educational Psychology and Measurement		3
EDU 270	Instructional Technology		3
HLTH 230	School Health		3
LIT 224H	British Literature II		3
LIT 225H	Shakespeare: Tragedy and Comedy		3
LIT 226H	Shakespeare: History and Tragedy		3
	HLTH 201 or current CPR card	2-3	
	Mathematics (M or Q) Requirement		3
	NASX 105G or NASX 232G		3
	Natural Science (NL or N) Requirement <sup>3</sup>		3
	Social Sciences (B) Requirement		3
<b>Second Year Total</b>			<b>32-33</b>
<b>Total Credits</b>			<b>63-64</b>

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

### Associate of Arts Degree

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

<u>First Year</u>			
Course #	Title		Credits
CAPP 120	Introduction to Computers		3
EDU 201	Introduction to Education with Field Experience		3
ENGL 251F*	Creative Writing in Fiction		3
LIT 110H	Introduction to Literature		3
LIT 207GH	African-American Writers		3
LIT 211H	American Literature II		3
M 115M*	Probability and Linear Mathematics <sup>4</sup>		3
SP 110C	Public Speaking		3
WRIT 101W*	College Writing I		3
	Fine Arts (F) Requirement <sup>1</sup>		3
	Natural Science (NL) Requirement <sup>2</sup>		3
<b>First Year Total</b>			<b>33</b>

<u>Second Year</u>			
Course #	Title		Credits
EDU 270	Instructional Technology <sup>3</sup>		3
EDUC 256	Instruction of Special Students		3
ENGL 270	Introduction to Linguistics		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 <sup>4</sup>		4
WRIT 201W*	College Writing II		3
	Natural Science (N) Requirement		3
	RLST 100G or RLST 220G		3
	Social Sciences (B) Requirement		3-4
<b>Second Year Total</b>			<b>31-33</b>

**Total Credits 64-66**

<sup>1</sup> ENGL 251F and an additional Fine Arts course are both required.

<sup>2</sup> GPHY 111NL is not an acceptable Lab Science for UGF.

<sup>3</sup> Students should take this class near the end of their AA completion.

<sup>4</sup> 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.

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## Secondary Education – General Science Broadfield

Associate of Science Degree

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

<u>First Year</u>				
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
<b>First Year Total</b>			<b>45-46</b>	
 <u>Second Year</u>				
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
___	HLTH	230	School Health	3
___	STAT	216M*	Introduction to Statistics	4
___	___	___	Communications (C) Requirement	3
___	___	___	HLTH 201 or current CPR card	0-2
___	___	___	Humanities (H) or Fine Arts (F) Requirement	3
___	___	___	NASX 105G or NASX 232G	3
___	___	___	PHSX 207NL* or PHSX 212NL*	5-6
<b>Second Year Total</b>			<b>38-41</b>	
<b>Total Credits</b>			<b>83-87</b>	

\*Indicates prerequisite and/or corequisite needed.

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

<u>First Year</u>				
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
___	EDU	201	Introduction to Education with Field Experience	3
___	PHSX	205NL*	College Physics I	5
___	SP	110C	Public Speaking	3
___	WRIT	101W*	College Writing I	3
___	___	___	Humanities (H) Requirement	3
___	___	___	Mathematics (M) Requirement	3
<b>First Year Total</b>			<b>37</b>	
 <u>Second Year</u>				
Course	#	Title	Credits	
___	EDU	270	Instructional Technology	3
___	GEO	100NL	Introduction to Earth Science	4
___	GEO	101NL	Introduction to Physical Geology	4
___	HLTH	230	School Health	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
<b>Second Year Total</b>			<b>35</b>	
<b>Total Credits</b>			<b>72</b>	

\*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 52 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 – Government

### Associate of Arts Degree

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

<b>First Year</b>			
Course #	Title		Credits
EDU 201	Introduction to Education with Field Experience		3
EDU 270	Instructional Technology		3
HLTH 230	School Health		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
<b>First Year Total</b>			<b>33</b>

<b>Second Year</b>			
Course #	Title		Credits
EDU 221*	Educational Psychology and Measurement		3
PSCI 250HB	Introduction to Political Theory		3
PSYX 100A	Introduction to Psychology		4
_____	Electives		2
_____	Electives		3
_____	Electives		3
_____	HLTH 201 or current CPR card		0-2
_____	Humanities (H) or Fine Arts (F) Requirement		3
_____	Mathematics (M or Q) Requirement		3
_____	Natural Science (NL or N) Requirement		3
_____	Communications (C), Humanities (H) or Social Sciences (A or B) Requirement		3
<b>Second Year Total</b>			<b>30-32</b>
<b>Total Credits</b>			<b>63-65</b>

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

Advisor:  
Robert Bauer  
BSS 124  
(406) 756-3860  
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## Secondary Education – History

### Associate of Arts Degree

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

<b>First Year</b>			
Course #	Title		Credits
EDU 201	Introduction to Education with Field Experience		3
HLTH 230	School Health		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 <sup>1</sup>		3
_____	Natural Science (NL) Requirement		3
<b>First Year Total</b>			<b>30</b>

<b>Second Year</b>			
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 <sup>1</sup>		3
_____	HLTH 201 or current CPR card <sup>2</sup>		2-3
_____	Humanities (H) or Fine Arts (F) Requirement		3
_____	Mathematics (M or Q) Requirement		3
_____	Natural Science (NL or N) Requirement		3
<b>Second Year Total</b>			<b>30-31</b>
<b>Total Credits</b>			<b>60-61</b>

<sup>1</sup> An art history course is preferred for one of these requirements.

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

Advisor:  
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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
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
SP 110C	Public Speaking		3
WRIT 101W*	College Writing I		3
_____	Fine Arts (F) Requirement		3
_____	Natural Science (NL) Requirement <sup>1</sup>	3-4	
<b>First Year Total</b>			<b>34-36</b>

Second Year			
Course #	Title		Credits
EDU 270	Instructional Technology <sup>2</sup>		3
EDUC 256	Instruction of Special Students		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
<b>Second Year Total</b>			<b>33</b>
<b>Total Credits</b>			<b>67-69</b>

<sup>1</sup> GPHY 111NL is not an acceptable Lab Science for UGF.

<sup>2</sup> 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.

Advisor:

Don Hicketier  
RH/SAT 146  
(406) 756-3361  
dhicketh@fvcc.edu

## 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 <sup>1</sup>		3
<b>First Year Total</b>			<b>32-33</b>

Second Year			
Course #	Title		Credits
EDU 221*	Educational Psychology and Measurement		3
HLTH 230	School Health		3
HSTA 101B	American History I		4
HSTA 102B	American History II		4
_____	Fine Arts (F) Requirement		3
_____	HLTH 201 or current CPR card		0-2
_____	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 <sup>1</sup>		6
<b>Second Year Total</b>			<b>35-37</b>

**Total Credits 67-70**

<sup>1</sup> Nine credits of Social Sciences electives from the following disciplines:

Economics, Geography, Psychology or Sociology.

\*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 52 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 – Broadfield Social Science / History

### Associate of Arts Degree

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

First Year			
Course #	Title		Credits
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
SP 110C	Public Speaking		3
WRIT 101W*	College Writing I		3
_____	Humanities (H) Requirement		3
_____	Mathematics (M or Q) Requirement		3
_____	Natural Science (NL) Requirement		3
<b>First Year Total</b>			<b>33</b>

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
<b>Second Year Total</b>			<b>32</b>
<b>Total Credits</b>			<b>65</b>

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

Advisor:  
Robert Bauer  
BSS 124  
(406) 756-3860

*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
EDU 201	Introduction to Education with Field Experience		3
GPHY 141GA	Geography of World Regions <sup>3</sup>		3
HSTA 101B	American History I		4
HSTR 101B	Western Civilization I		4
M 115M*	Probability and Linear Mathematics <sup>5</sup>		3
PSCI 210B	Introduction to American Government <sup>3</sup>		3
PSYX 100A	Introduction to Psychology <sup>2</sup>		4
SOCI 101A	Introduction to Sociology <sup>2</sup>		3
WRIT 101W*	College Writing I		3
_____	Fine Arts (F) Requirement		3
_____	Natural Science (NL) Requirement <sup>1</sup>		3
_____	RLST 100G or RLST 220G		3
<b>First Year Total</b>			<b>42</b>

Second Year			
Course #	Title		Credits
EDU 270	Instructional Technology <sup>4</sup>		3
EDUC 256	Instruction of Special Students		3
HSTA 102B	American History II		4
HSTR 102B	Western Civilization II		4
HSTA 255B	Montana History		3
LIT 110H	Introduction to Literature		
_____	or		
PHL 101H	Introduction to Philosophy: Reason and Reality		3
PSCI 250HB	Introduction to Political Theory <sup>3</sup>		3
PSYX 230A*	Developmental Psychology <sup>3</sup>		3
PSYX 240A*	Fundamentals of Abnormal Psychology <sup>3</sup>		3
SOCI 235*	Aging and Society <sup>3</sup>		3
_____	or		
SOCI 236GA	Introduction to Race and Ethnic Relations <sup>3</sup>		3
SP 110C	Public Speaking		3
STAT 216M*	Introduction to Statistics <sup>5</sup>		4
WRIT 201W*	College Writing II		3
_____	Natural Science (NL or N) Requirement		3
<b>Second Year Total</b>			<b>48</b>
<b>Total Credits</b>			<b>90</b>

<sup>1</sup> GPHY 111NL is not an acceptable Lab Science course for UGF.

<sup>2</sup> Only one of these is required for a History only major.

<sup>3</sup> Not required for a History only major.

<sup>4</sup> Students should take this class near the end of their AS completion.

<sup>5</sup> 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 needed.  
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, Montana Tech of The University of Montana, and Carroll College**. 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.

**Carroll College** offers a civil engineering program.

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.

Advisor:

Dr. Effat Rady  
RH/SAT 107  
(406) 756-3375  
erady@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 52 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**:

				<u>First Year</u>
<b>Fall Semester</b>				
___	<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
___	CHMY	141NL*	College Chemistry I <sup>1</sup>	5
___	EGEN	105	Introduction to General Engineering	1
___	M	171M*	Calculus I <sup>2</sup>	5
___	SP	110C	Public Speaking	3
___	WRIT	101W*	College Writing I	3
<b>First Semester Total</b>				<b>17</b>
<b>Spring Semester</b>				
___	<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
___	M	172M*	Calculus II <sup>2</sup>	5
___	PHSX	210NL*	General Physics I <sup>3</sup>	6
___	___	___	Additional Engineering Requirements **	3+
___	___	___	Social Sciences (A) Requirement	3
<b>Second Semester Total</b>				<b>17+</b>
				<u>Second Year</u>
<b>Fall Semester</b>				
___	<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
___	M	273M*	Multivariable Calculus <sup>2</sup>	5
___	PHSX	212NL*	General Physics II <sup>3</sup>	6
___	___	___	Additional Engineering Requirements **	3+
___	___	___	Humanities (H) Requirement	3
<b>First Semester Total</b>				<b>17+</b>
<b>Spring Semester</b>				
___	<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
___	M	274M*	Introduction to Differential Equations <sup>2</sup>	5
___	___	___	Additional Engineering Requirements **	3+
___	___	___	Global Issues (G) Requirement <sup>4,5</sup>	3
___	___	___	Humanities (H) or Fine Arts (F) Requirement	3
___	___	___	Social Sciences (B) Requirement <sup>4,6</sup>	3
<b>Second Semester Total</b>				<b>17+</b>
<b>Total Credits</b>				<b>68+</b>

<sup>1</sup> Not required for computer engineering majors.

<sup>2</sup> Construction engineering students should take two semesters of calculus and STAT 216M\*. Mechanical engineering technology majors need to have taken at least M 153M\*.

<sup>3</sup> Construction engineering technology, and mechanical engineering technology majors could take PHSX 205NL\* and PHSX 207NL\* instead.

<sup>4</sup> Construction Engineering Technology students should take ECNS 101B and ECNS 202GB for these general education categories.

<sup>5</sup> Civil Engineering students should take ECNS 202GB as their Global Issues requirement.

<sup>6</sup> Civil Engineering students should take ECNS 101B or PSCI 210B.

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

\*\* See page 92 through 94 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	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

\*Indicates prerequisite and/or corequisite needed.

Check course description.

\*\*Additional courses for Construction Engineering Technology (MSU):

___	ACTG	201	Principles of Financial Accounting	4
___	EGEN	115	Engineering Graphics	3
___	GEO	101NL	Introduction to Physical Geology	4
___	STAT	216M*	Introduction to Statistics	4
___	SRVY	241*	Introduction to Surveying for Land Surveyors I	5
___	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	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

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

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**:

<b>First Year</b>			
<b>Fall Semester</b>			
___	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
<b>First Semester Total</b>			<b>17</b>
<b>Spring Semester</b>			
___	Course #	Title	Credits
___	CHMY 143NL*	College Chemistry II	5
___	M 172M*	Calculus II	5
___	PHSX 210NL*	General Physics I	6
___	___	Additional Engineering Requirements**	3
<b>Second Semester Total</b>			<b>19</b>
<b>Summer Semester</b>			
___	Course #	Title	Credits
___	ECNS 201B	Principles of Microeconomics	3
___	___	Communications (C) Requirement	3
___	___	Social Sciences (A) Requirement	3
<b>Third Semester Total</b>			<b>9</b>
<b>Second Year</b>			
<b>Fall Semester</b>			
___	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
<b>First Semester Total</b>			<b>18</b>
<b>Spring Semester</b>			
___	Course #	Title	Credits
___	ECNS 202GB	Principles of Macroeconomics	3
___	EGEN 205*	Mechanics of Materials <sup>1</sup>	4
___	M 274M*	Introduction to Differential Equations	5
___	___	Additional Engineering Requirements**	3+
<b>Second Semester Total</b>			<b>15+</b>
<b>Total Credits</b>			<b>78+</b>

<sup>1</sup>Not required for geophysical engineering majors.

\*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 <sup>2</sup>	4
___	M 221M*	Introduction to Linear Algebra <sup>3</sup>	4

<sup>2</sup> Only required for Civil Engineering.

<sup>3</sup> 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
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\*\* Additional courses for Petroleum Engineering (MT Tech of The University of Montana):

___	EGEN 202*	Engineering Mechanics-Dynamics	4
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\*\* 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
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\*Indicates prerequisite and/or corequisite needed. Check course description.



## Associate of Science Degree

Suggested course of study for a transfer to **Carroll College:****First Year****Fall Semester**

Course #	Title	Credits
CHMY 141NL*	College Chemistry I	5
M 171M*	Calculus I	5
WRIT 101W*	College Writing I	3
_____	SP 110C or SP 120C	3
	<b>First Semester Total</b>	<b>16</b>

**Spring Semester**

Course #	Title	Credits
CHMY 143NL*	College Chemistry II	5
EGEN 115	Engineering Graphics	3
M 172M*	Calculus II	5
PHSX 210NL*	General Physics I	6
	<b>Second Semester Total</b>	<b>19</b>

**Summer Semester**

Course #	Title	Credits
_____	History course from Social Sciences (B) Requirement	3
_____	Literature course from Humanities (H) Requirement	3
_____	PHL 101H, PHL 110H or PSCI 250HB	3
_____	Social Sciences (A) Requirement	3
	<b>Third Semester Total</b>	<b>12</b>

**Second Year****Fall Semester**

Course #	Title	Credits
EGEN 201*	Engineering Mechanics-Statics	4
M 273M*	Multivariable Calculus	5
PHSX 212NL*	General Physics II	6
	<b>First Semester Total</b>	<b>15</b>

**Spring Semester**

Course #	Title	Credits
ECNS 202GB	Principles of Macroeconomics	3
EGEN 205*	Mechanics of Materials	4
M 221M*	Introduction to Linear Algebra	4
	<b>Second Semester Total</b>	<b>11</b>
	<b>Total Credits</b>	<b>73**</b>

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

\*\* A maximum of 60 lower division (100-200 level) credits may be transferred into Carroll College.

Advisor:

Dr. Effat Rady  
RH/SAT 107  
(406) 756-3375  
erady@fvcc.edu

## 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:**

<u>First Year</u>			
—	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
<b>First Year Total</b>			<b>30</b>

<u>Second Year</u>			
—	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
<b>Second Year Total</b>			<b>31</b>

**Total Credits 61**

### \*\*Recommended electives for the Creative Writing Option:

—	ENGL 251F*	Creative Writing in Fiction	3
—	ENGL 252F	Creative Writing in Poetry	3
—	LIT 120H	Poetry	3

### \*\*Recommended elective for the Linguistics Option:

—	ENGL 270	Introduction to Linguistics	3
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### \*\* 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 207GH	African-American Writers	3
—	LIT 240H	Bible as Literature	3
—	LIT 246GH	Major Women Writers	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:

Brian Bechtold	Lowell Jaeger
AT 230	AT 231
(406) 756-3904	(406) 756-3907
bbechtol@fvcc.edu	ljaeger@fvcc.edu

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LRC 145	AT 229
(406) 756-3905	(406) 756-3902
ckabler@fvcc.edu	cbergin@fvcc.edu



## *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:**

<b>First Year</b>			
Course	#	Title	Credits
___	BIOB	256NL* Intro Biol: Cells to Organisms	4
___	CHMY	141NL* College Chemistry I	5
___	CHMY	143NL* College Chemistry II	5
___	M	171M* Calculus I	5
___	NRSM	101 Natural Resource Conservation	3
___	PHSX	205NL* College Physics I	5
___	STAT	216M* Introduction to Statistics	4
___	WRIT	101W* College Writing I	3
<b>First Year Total</b>			<b>34</b>

<b>Second Year</b>			
Course	#	Title	Credits
___	BIOB	260NL* Cellular and Molecular Biology	5
___	ECNS	101B Economic Way of Thinking	3
___	ENSC	245NL Soils	4
___	ENSC	272 Water Resources	4
___	___	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
<b>Second Year Total</b>			<b>31</b>

**Total Credits**                      **65<sup>1</sup>**

<sup>1</sup>If time permits, the student may opt to take WRIT 122C\* or WRIT 201W\*.

\*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 52 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.

Advisor:

Ruth Wrightsman  
RH/SAT 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.*



## 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 applied mathematical science, biology, geology, environmental, interpretation, wildlands therapy, wild-life biology, sustainable natural resource management and environmental geochemistry.

### Associate of Science Degree

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

		First Year		
Course	#	Title		Credits
—	CHMY 141NL*	College Chemistry I <sup>1</sup>		5
—	CHMY 143NL*	College Chemistry II <sup>1</sup>		5
—	M 171M*	Calculus I <sup>2</sup> or Electives		5
—	PHSX 210NL*	General Physics I <sup>3</sup> or Mathematics (M) or Natural Science (NL or N) Requirement		6
—	WRIT 101W*	College Writing I		3
—	—	Humanities (H) Requirement		3
—	—	Social Sciences (A) Requirement		3
<b>First Year Total</b>				<b>30</b>
		Second Year		
Course	#	Title		Credits
—	STAT 216M*	Introduction to Statistics		4
—	—	Communications (C) Requirement		3
—	—	Electives**		15
—	—	Global Issues (G) Requirement		3
—	—	Humanities (H) or Fine Arts (F) Requirement		3
—	—	Social Sciences (B) Requirement		3
<b>Second Year Total</b>				<b>31</b>
<b>Total Credits</b>				<b>61</b>

\*\*Depending on which related area you choose to pursue, the following electives may be worthwhile to take at FVCC:

—	BIOB 160NL	Principles of Living Systems	4
—	BIOB 170N*	Principles of Biological Diversity	3
—	BIOB 171L*	Principles of Biological Diversity Lab	2
—	BIOM 251L*	Microbiology for Health Sciences Lab	1
—	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
—	HLTH 201	First Aid	2
—	M 172M*	Calculus II	5
—	M 221M*	Introduction to Linear Algebra	4
—	M 273M*	Multivariable Calculus	5
—	PHSX 212NL*	General Physics II	6

<sup>1</sup> Not required for Environmental Interpretation or Biological Naturalist options and take BIOB 160NL, BIOB 170N\*, and BIOB 171L\* instead.

<sup>2</sup> The only options that require Calculus are Biological Mathematics and Applied Mathematical Sciences: however, it is required for Physics.

<sup>3</sup> Physics is not required for Interpretation, Naturalist or Conservation Officer options.

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

## 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		3
—	—	Elective**		3
—	—	Elective**		3
—	—	Humanities (H) Requirement		3
<b>First Year Total</b>				<b>29</b>
		Second 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
—	NASX 105G	Introduction to Native American Studies		3
—	STAT 216M*	Introduction to Statistics		4
—	—	Communications (C) Requirement		3
—	—	Elective**		3
—	—	Elective**		3
—	—	Electives		3
—	—	Humanities (H) or Fine Arts (F) Requirement		3
—	—	Social Sciences (A) Requirement		3
—	—	Social Sciences (B) Requirement		3
<b>Second Year Total</b>				<b>32-33</b>
<b>Total Credits</b>				<b>61-63</b>

\*\*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

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

Advisor:

Dr. Anita Ho

RH/SAT 177, (406) 756-3873, aho@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.

## Farm and Ranch Management Transfer Curricula

Farms and ranches are many things, one of which is that they are businesses. Whether raising cattle, grain, or vegetables, farms and ranches produce something that ultimately becomes food. This program focuses on the four main components of making this business successful—production, finance, marketing, and management.

Completion of the following courses results in an associate degree and fulfills the general education core requirements at **Montana State University - Bozeman**.

### Associate of Science Degree

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

<b>First Year</b>			
—	Course #	Title	Credits
—	ANSC 100	Introduction to Animal Science	3
—	BIOB 110	Plant Science	3
—	CAPP 120	Introduction to Computers	3
—	ECNS 101B	Economic Way of Thinking	3
—	ECNS 202GB	Principles of Macroeconomics	3
—	SP 110C	Public Speaking	3
—	WRIT 101W*	College Writing I	3
—	—	BIOB 170N* and BIOB 171L* or CHMY121NL*	4-5
—	—	M 162M* or M 171M*	5
—	—	Humanities (H) Requirement	3
<b>First Year Total</b>			<b>33-34</b>

<b>Second Year</b>			
—	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 122C* or WRIT 201W*	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
<b>Second Year Total</b>			<b>31</b>

**Total Credits 64-65**

### 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 52 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.

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

Advisor:  
Pete Wade  
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pwade@fvcc.edu

## Forensic Chemistry 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 very strong 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 or Forensic Chemistry 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 <sup>1,2</sup>	5
___ M 171M*	Calculus I <sup>1,2</sup>	5
___ WRIT 101W*	College Writing I	3
<b>First Semester Total</b>		<b>17</b>

##### Spring Semester

Course #	Title	Credits
___ CHMY 143NL*	College Chemistry II	5
___ M 172M*	Calculus II	5
___ PHSX 205NL*	College Physics I <sup>1,2</sup>	5
___ SP 110C	Public Speaking	3
<b>Second Semester Total</b>		<b>18</b>

##### Summer Semester

Course #	Title	Credits
___ _____	Humanities (H) Requirement	3
___ _____	Global Issues (G) Requirement	3
___ _____	Social Sciences (B) Requirement	3
<b>Third Semester Total</b>		<b>9</b>

#### Second Year

##### Fall Semester

Course #	Title	Credits
___ CHMY 221NL*	Organic Chemistry I	5
___ CHMY 280NL*	Forensic Science I	4
___ PHSX 207NL*	College Physics II <sup>1,2</sup>	5
___ SOCI 121A	Introduction to Criminal Justice	3
<b>First Semester Total</b>		<b>17</b>

##### 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
___ _____	Humanities (H) or Fine Arts (F) Requirement	3
<b>Second Semester Total</b>		<b>17</b>

**Total Credits 78\*\***

<sup>1</sup> Forensic Biology to UGF: substitute BIOM 250N\*/251L\*, BIOB 272N\* for M 172M\* and the Physics courses.

<sup>2</sup> 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.

#### 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 52 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

<b>Fall Semester</b>				
—	Course	#	Title	Credits
—	M	152M*	Precalculus Algebra	4
—	SP	110C	Public Speaking	3
—	SRVY	135	Field Surveying/Global Positioning System Introduction	5
—	WRIT	101W*	College Writing I	3
—	—	—	Humanities (H) Requirement	3
<b>First Semester Total</b>				<b>18</b>

<b>Spring Semester</b>				
—	Course	#	Title	Credits
—	BIOO	105NL	Introduction to Botany	3
—	ECNS	201B	Principles of Microeconomics	3
—	ENSC	245NL	Soils	4
—	M	153M*	Precalculus Trigonometry	3
—	WRIT	121C*	Introduction to Technical Writing	3
—	—	—	Social Sciences (A) Requirement	3
<b>Second Semester Total</b>				<b>19</b>

#### Second Year

<b>Fall Semester</b>				
—	Course	#	Title	Credits
—	CHMY	121NL*	Introduction to General Chemistry	4
—	FORS	251*	Photogrammetry and Remote Sensing	3
—	M	162M*	Applied Calculus	5
—	NRSM	161*	Natural Resource Measurements I	5
<b>First Semester Total</b>				<b>17</b>

<b>Spring Semester</b>				
—	Course	#	Title	Credits
—	FORS	152	Sustainable Silviculture <sup>1</sup>	4
—	SRVY	233*	Introduction to GIS for Natural Resource Assessment <sup>1</sup>	4
—	WILD	270N	Wildlife Habitat and Conservation	3
—	—	—	Global Issues (G) Requirement	3
—	—	—	Humanities (H) or Fine Arts (F) Requirement	3
<b>Second Semester Total</b>				<b>17</b>

**Total Credits** **71\*\***

\*\*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
—	SRVY	245*	GPS Mapping	2
—	PHSX	205NL*	College Physics I <sup>2</sup>	5

<sup>1</sup> If pursuing the Forest Operations and Applied Restoration or Wildland Restoration options.

<sup>2</sup> If pursuing the Applied Forest Operations and Applied Restoration of Wildland Restoration Options.

\*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 Resource Conservation:

First Year			
Fall Semester			
Course	#	Title	Credits
BIOB	160NL	Principles of Living Systems	4
M	152M*	Precalculus/Algebra	4
SRVY	135	Field Surveying/Global Positioning System Introduction	5
WRIT	101W*	College Writing I	3
<b>First Semester Total</b>			<b>16</b>

Spring Semester			
Course	#	Title	Credits
BIOE	172N*	Introductory Ecology	3
BIOE	173L*	Introductory Ecology Laboratory	1
M	153M*	Precalculus Trigonometry	3
SP	110C	Public Speaking	3
—	—	Social Sciences (B) Requirement	3
—	—	Electives	3
<b>Second Semester Total</b>			<b>16</b>

Second Year			
Fall Semester			
Course	#	Title	Credits
CHMY	121NL*	Introduction to General Chemistry	4
NRSM	161*	Natural Resource Measurements I	5
—	—	Humanities (H) Requirement	3
—	—	Social Sciences (A) Requirement	3
<b>First Semester Total</b>			<b>15</b>

Spring Semester			
Course	#	Title	Credits
ENSC	245NL	Soils	4
STAT	216M*	Introduction to Statistics	4
—	—	Global Issues (G) Requirement	3
—	—	Humanities (H) or Fine Arts (F) Requirement	3
—	—	Electives	3
<b>Second Semester Total</b>			<b>17</b>

**Total Credits** 64\*\*

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

\*\*If time permits, to further broaden their educational experience, students may consider taking the following:

—	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.

Advisor:

Christina Relyea  
RH/SAT 156  
(406) 756-3946  
crelyea@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 52 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 <sup>1,2</sup>		3
—	Elective <sup>1,2</sup>		3
—	Elective <sup>1,2</sup>		3
—	Mathematics (M) or Natural Science (NL or N) Requirement		3
<b>First Year Total</b>			<b>29</b>

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
<b>Second Year Total</b>			<b>32</b>
<b>Total Credits</b>			<b>61</b>

<sup>1</sup>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

<sup>2</sup>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

### 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 <sup>1</sup>		3-5
— STAT 216M*	Introduction to Statistics		4
— WRIT 101W*	College Writing I		3
—	Communications (C) Requirement		3
—	Electives		3
—	Electives <sup>3</sup>		3-4
—	Humanities (H) Requirement		3
<b>First Year Total</b>			<b>29-32</b>

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 <sup>2</sup>		3-5
—	Natural Science (NL or N) Requirement <sup>2</sup>		3-5
—	Social Sciences (B) Requirement <sup>4</sup>		3
<b>Second Year Total</b>			<b>30-34</b>
<b>Total Credits</b>			<b>60-66</b>

The University of Montana options are Physical Geography, Cartography and GIS, Community and Environmental Planning, and General Geography without option.

<sup>1</sup> M 162M\* is required for the Physical Geography option as well as a sequential pair of science classes as noted next.

<sup>2</sup> 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\*.

<sup>3</sup> Cartography and GIS students should take CSCI 111.

<sup>4</sup> 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.

Advisor:

Dr. Anito Ho  
RH/SAT 177  
(406) 756-3873  
aho@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.

## 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
<b>First Year Total</b>			<b>34</b>

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
<b>Second Year Total</b>			<b>30</b>
<b>Total Credits</b>			<b>64**</b>

\*\*If time permits, students can take the following courses:

___	M 273M*	Multivariable Calculus <sup>1</sup>	5
___	M 274M*	Introduction to Differential Equations <sup>1</sup>	5
___	SRVY 241*	Introduction to Surveying for Land Surveyors I <sup>2</sup>	5
___	SRVY 283*	GIS for Survey Analysis <sup>2</sup>	4

<sup>1</sup> If pursuing the Crystallography, Mineralogy and Earth Materials Emphasis.

<sup>2</sup> If pursuing GIS option.

\*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
___	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 <sup>1</sup>	5
___	WRIT 101W*	College Writing I	3
___	___	PHSX 205NL* or PHSX 210NL*	5-6
<b>First Year Total</b>			<b>32-33</b>

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* <sup>2</sup>	5-6
___	___	Social Sciences (A) Requirement	3
___	___	Social Sciences (B) Requirement	3
<b>Second Year Total</b>			<b>30-31</b>
<b>Total Credits</b>			<b>62-64<sup>3</sup></b>

The above curriculum is for the Bachelor of Science in Geosciences.

Deviations for the Interdisciplinary options are:

<sup>1</sup> M 172M\* is not required. May take elective credits instead.

<sup>2</sup> One semester of physics is required. Take BIOB 160NL or BIOB 170N\* instead of the second physics course.

<sup>3</sup> If course load allows, take PTRM 201 if seeking the Interdisciplinary option.

\*Indicates prerequisite and/or corequisite needed.

Check course description.

Advisor:

Dr. Anita Ho  
RH/SAT 177  
(406) 756-3873  
aho@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 52 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.



## Graphic Design Transfer Curricula

The Montana State University – Northern Graphic Design program 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, web site 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
ART 144	Design for Graphic Communications	3
ART 153*	Digital Imaging I	3
ARTZ 105F	Visual Language – Drawing	3
ARTZ 106F	Visual Language – 2D Foundations	3
CMPA 275	Web Development Tools: Dreamweaver	4
<b>First Semester Total</b>		<b>16</b>

##### Spring Semester

Course #	Title	Credits
ART 148	Digital Illustration I	3
ARTZ 108F*	Visual Language – 3D Foundations	3
HSTR 102B	Western Civilization II	4
PHOT 113F	Understanding Photography	3
SP 110C	Public Speaking	
or		
SP 120C	Interpersonal Relations/Communications <sup>1</sup>	3
WRIT 101W*	College Writing I	3
<b>Second Semester Total</b>		<b>19</b>

##### Summer Semester

Course #	Title	Credits
_____	Natural Science (NL or N) Requirement	3
_____	Social Sciences (A) Requirement	3
<b>Third Semester Total</b>		<b>6</b>

#### Second Year

##### Fall Semester

Course #	Title	Credits
ART 248*	Digital Illustration II	3
ART 249*	Digital Imaging II	3
ARTZ 221F	Painting I	3
LIT 110H	Introduction to Literature	3
_____	Global Issues (G) Requirement <sup>2</sup>	3-5
<b>First Semester Total</b>		<b>15-17</b>

##### Spring Semester

Course #	Title	Credits
CMPA 274*	Interactive Media for the Web	3
_____	Communications (C), Global Issues (G) <sup>2</sup> Humanities (H) <sup>2</sup> or Social Sciences (A or B) Requirement or WRIT 201W*	3
_____	Mathematics (M or Q) Requirement	3
_____	Natural Science (NL or N) Requirement	3
<b>Second Semester Total</b>		<b>12</b>

#### Total Credits

68-70

<sup>1</sup> It is recommended that students take this course during spring or summer interim.

<sup>2</sup> 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.

#### Advisor:

Dawn Rauscher  
BSS 105  
(406) 756-3861  
drausche@fvcc.edu

## 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 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:

<u>First Year</u>			
—	Course #	Title	Credits
—	BIOB 160NL	Principles of Living Systems	4
—	CHMY 121NL*	Introduction to General Chemistry	4
—	M 115M*	Probability and Linear Mathematics	3
—	PSYX 100A	Introduction to Psychology	4
—	SOCI 101A	Introduction to Sociology	3
—	SP 110C	Public Speaking	3
—	STAT 216M*	Introduction to Statistics	4
—	WRIT 101W*	College Writing I	3
—	—	Humanities (H) Requirement	_3
<b>First Year Total</b>			<b>31</b>

<u>Second Year</u>			
—	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
—	PSCI 210B	Introduction to American Government	3
—	PSYX 150	Drugs and Society	3
—	WRIT 201W*	College Writing II	3
—	—	BIOM 250N* or SOCI 201	3
—	—	Global Issues (G) Requirement	3
—	—	Humanities (H) or Fine Arts (F) Requirement	_3
<b>Second Year Total</b>			<b>29</b>
<b>Total Credits</b>			<b>60</b>

\*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:

<u>First Year</u>			
—	Course #	Title	Credits
—	CHMY 121NL*	Introduction to General Chemistry	4
—	CHMY 123NL*	Introduction to Organic and Biochemistry	4
—	HLTH 200	Foundations of Physical Education	3
—	HLTH 203	Health for the Individual	3
—	HLTH 210*	Basic Exercise Prescription	3
—	M 115M*	Probability and Linear Mathematics	3
—	PSYX 100A	Introduction to Psychology	4
—	SP 110C	Public Speaking	3
—	WRIT 101W*	College Writing I	3
—	—	PSYX 150 <sup>1</sup> or STAT 216M* <sup>2</sup>	3-4
<b>First Year Total</b>			<b>33-34</b>

<u>Second Year</u>			
—	Course #	Title	Credits
—	BIOH 201NL*	Human Anatomy and Physiology I	4
—	BIOH 211NL*	Human Anatomy and Physiology II	4
—	HLTH 201	First Aid	2
—	HLTH 205	Care and Prevention of Athletic Injuries <sup>1</sup>	3
—	WRIT 121C*	Introduction to Technical Writing	3
—	—	BIOB 160NL <sup>1</sup> or PHSX 205NL* <sup>2</sup>	4-5
—	—	BIOM 250N* <sup>1</sup> or NUTR 221N* <sup>2</sup>	3
—	—	Global Issues (G) Requirement	3
—	—	Humanities (H) Requirement	3
—	—	Humanities (H) or Fine Arts (F) Requirement	3
—	—	Social Sciences (B) Requirement	_3
<b>Second Year Total</b>			<b>35-36</b>
<b>Total Credits</b>			<b>68-70</b>

<sup>1</sup> If pursuing Athletic Training.

<sup>2</sup> 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 <sup>1</sup>		5
___ PHSX 205NL*	College Physics I <sup>2</sup>		5
___ PSYX 100A	Introduction to Psychology		4
___ WRIT 101W*	College Writing I		3
___ _____	Humanities (H) Requirement		3
	<b>First Year Total</b>		<b>34</b>

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 <sup>2</sup>		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
	<b>Second Year Total</b>		<b>32</b>
	<b>Total Credits</b>		<b>66</b>

For those students planning on a PE/Health Education major:

<sup>1</sup> Take M 115M\* instead of M 162M\*.

<sup>2</sup> Take EDU 201, PSYX 150 and PSYX 230A\* instead.

\*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 52 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 250N*	Microbiology for Health Sciences		3
___ CHMY 121NL*	Introduction to General Chemistry		4
___ HLTH 200	Foundations of Physical Education		3
___ HLTH 203	Health for the Individual		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
	<b>First Year Total</b>		<b>31</b>

Second Year			
Course #	Title		Credits
___ BIOH 201NL*	Human Anatomy and Physiology I		4
___ BIOH 211NL*	Human Anatomy and Physiology II		4
___ HLTH 201	First Aid		2
___ HLTH 210*	Basic Exercise Prescription		3
___ NUTR 221N*	Basic Human Nutrition		3
___ SP 110C	Public Speaking		3
___ _____	PSYX 230A* or WRIT 121C* <sup>1</sup>		3
___ _____	Global Issues (G) Requirement <sup>1</sup> or NASX 105G or NASX 232G		3
___ _____	Humanities (H) Requirement		3
___ _____	Humanities (H) or Fine Arts (F) Requirement		3
___ _____	Social Sciences (B) Requirement		3
	<b>Second Year Total</b>		<b>34</b>
	<b>Total Credits</b>		<b>65</b>

Students pursuing the Health Enhancement option should take the following if course load allows:

___ EDU 201	Introduction to Education with Field Experience		3
___ EDU 270	Instructional Technology		3
___ EDU 221*	Educational Psychology and Measurement		3
___ HLTH 230	School Health		3

<sup>1</sup> If pursuing the Community Health option.

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 Environmental 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 <sup>1</sup>		4
___ BIOB 170N*	Principles of Biological Diversity <sup>1</sup>		3
___ BIOB 171L*	Principles of Biological Diversity Lab <sup>1</sup>		2
___ CHMY 141NL*	College Chemistry I		5
___ CHMY 143NL*	College Chemistry II		5
___ ECNS 101B	Economic Way of Thinking <sup>2</sup>		3
___ PSYX 100A	Introduction to Psychology <sup>3</sup>		4
___ SOCI 101A	Introduction to Sociology <sup>3</sup>		3
___ WRIT 101W*	College Writing I		3
___ _____	Humanities (H) Requirement		3
___ _____	M 115M* or M 162M* <sup>4</sup>		3-5
<b>First Year Total</b>			<b>38-40</b>

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 <sup>5</sup>		5
___ CHMY 223NL*	Organic Chemistry II <sup>5</sup>		5
___ NUTR 221N*	Basic Human Nutrition		3
___ SP 110C	Public Speaking		3
___ STAT 216M*	Introduction to Statistics		4
___ _____	Global Issues (G) Requirement		3
___ _____	Humanities (H) or Fine Arts (F) Requirement		3
<b>Second Year Total</b>			<b>34</b>

**Total Credits 72-74**

<sup>1</sup> Both are required for Nutrition Science, take BIOB 160NL for Dietetics.

<sup>2</sup> Nutrition Science students can take any Social Sciences (B) course.

<sup>3</sup> Both are required for Dietetics, any Social Sciences (A) course is fine for the Nutrition Science option.

<sup>4</sup> Required for the Nutrition Science option.

<sup>5</sup> Not required for Dietetics option.

Nutrition Science majors should also take the following additional courses if time permits:

___ BCH 280N*	Biochemistry <sup>5</sup>	3
___ BCH 281L*	Biochemistry Lab <sup>5</sup>	2
___ PHSX 205NL*	College Physics I	5
___ PHSX 207NL*	College Physics II	5

See advisor for recommendations on fulfilling these requirements.

<sup>5</sup> Dietetics students should take BCH 280N\* , BCH 281L\* and ACTG 201 if time permits.

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

## Advisor:

Dr. Janice Alexander  
RH/SAT 107  
(406) 756-3948

Lori Elwell  
RH/SAT 108  
(406) 756-3899

## 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
___ 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
<b>First Year Total</b>			<b>31</b>

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
<b>Second Year Total</b>			<b>33</b>

**Total Credits 64\*\***

\*\* 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.

Advisor: Brenda Rudolph, BSS 106  
(406) 756-3858, brudolph@fvcc.edu





## 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:**

<u>First Year</u>			<u>Credits</u>
___ Course #	Title		
___ 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 <sup>1</sup>		3
___ _____	Mathematics (M or Q) Requirement		3
___ _____	Natural Science (NL) Requirement		3-4
<b>First Year Total</b>			<b>29-30</b>

<u>Second Year</u>			<u>Credits</u>
___ Course #	Title		
___ 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 <sup>1</sup>		12
___ _____	Natural Science (NL or N) Requirement		3
___ _____	Social Sciences (A) Requirement		3
<b>Second Year Total</b>			<b>32</b>

**Total Credits** **61-62**

<sup>1</sup> 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:**

<u>First Year</u>			<u>Credits</u>
___ Course #	Title		
___ HSTA 255B	Montana History		3
___ HSTR 101B	Western Civilization I		4
___ HSTR 102B	Western Civilization II		4
___ SP 110C	Public Speaking		3
___ 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
<b>First Year Total</b>			<b>29-30</b>

<u>Second Year</u>			<u>Credits</u>
___ Course #	Title		
___ 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		10
___ _____	Natural Science (NL or N) Requirement		3
___ _____	Social Sciences (A) Requirement		3
<b>Second Year Total</b>			<b>30</b>

**Total Credits** **60**

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

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## **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 this program in the summer of their accepted year and continue through the next school year and following summer for a total of four consecutive semesters. Students will be required to go to UM to meet with the other members of the cohort and professors three or four days each semester. The courses in this program are sequential in nature so a student must attend each semester with that cohort or drop back a full year 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 (HS 100A\*, HS 250\* and SP 120C) 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:**

<b>First Year</b>			
—	Course #	Title	Credits
—	BIOB 101NL	Discover Biology <sup>3</sup>	4
—	ECNS 101B	Economic Way of Thinking <sup>3</sup>	3
—	HS 100A*	Introduction to Human Services/ Social Work	3
—	PSYX 100A	Introduction to Psychology <sup>3</sup>	4
—	SOCI 101A	Introduction to Sociology <sup>3</sup>	3
—	SP 120C	Interpersonal Relations/ Communications	3
—	WRIT 101W*	College Writing I	3
—	—	Fine Arts (F) Requirement	3
—	—	Humanities (H) Requirement	3
<b>First Year Total</b>			<b>29</b>
<b>Second Year</b>			
—	Course #	Title	Credits
—	HS 210*	Case Management	2
—	HS 250*	Interviewing/Crisis Intervention	4
—	PSCI 210B	Introduction to American Government <sup>3</sup>	3
—	PSYX 230A*	Developmental Psychology <sup>3</sup>	3
—	PSYX 233*	Fundamentals of Psychology of Aging <sup>3</sup>	3
—	SOCI 236GA	Introduction to Race and Ethnic Relations <sup>3</sup>	3
—	—	Electives <sup>1</sup>	6
—	—	Humanities (H) or Fine Arts (F) Requirement	3
—	—	Mathematics (M or Q) Requirement	3
—	—	Natural Science (NL or N) Requirement <sup>2</sup>	3
<b>Second Year Total</b>			<b>33</b>
<b>Total Credits</b>			<b>62</b>

<sup>1</sup> PSYX 264\* is a highly recommended elective that doesn't directly transfer for a specific class but will prepare the student for future classes.

<sup>2</sup> PSYX 250NA\* is preferred.

<sup>3</sup> These courses are the eight out-of-department courses.

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

## Associate of Arts Degree

Suggested course of study for a transfer to **Salish Kootenai College**:

<b>First Year</b>			
Course #	Title		Credits
___ BIOB 160NL	Principles of Living Systems		4
___ CAPP 106*	Short Courses: Computer Applications 1		1
___ CAPP 131*	Basic MS Office		2
___ HS 100A*	Introduction to Human Services/ Social Work		3
___ M 115M*	Probability and Linear Mathematics <sup>1</sup>		3
___ M 121M*	College Algebra		3
___ 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
___ SP 110C	Public Speaking		3
___ SP 120C	Interpersonal Relations/ Communications		3
___ WRIT 101W*	College Writing I		3
___ _____	HUM 261H <sup>2</sup> or HUM 262H <sup>2</sup> or PHL 101H <sup>2</sup>		3-4
___ _____	NASX 105G or NASX 232G		3
	<b>First Year Total</b>		<b>33-35</b>

<b>Second Year</b>			
Course #	Title		Credits
___ HS 279*	Legal/Ethical/Professional Issues		3
___ PSYX 230A*	Developmental Psychology		3
___ PSYX 242*	Fundamentals of Substance Abuse and Addiction <sup>3</sup>		3
___ PSYX 250NA*	Fundamentals of Biological Psychology		3
___ SOCI 271	Introduction to Family Violence		3
___ STAT 216M*	Introduction to Statistics <sup>1</sup>		4
___ WRIT 201W*	College Writing II		3
___ _____	Fine Arts (F) Requirement		3
___ _____	HSTA 102B or HSTR 102B		4
___ _____	HUM 261H <sup>2</sup> or HUM 262H <sup>2</sup> or PHL 101H <sup>2</sup>		3-4
___ _____	Physical Education class (SKC Requirement)		1
___ _____	Electives <sup>4</sup>		9
	<b>Second Year Total</b>		<b>42-43</b>

**Total Credits** 75-78\*Indicates prerequisite and/or corequisite needed.  
Check course description.<sup>1</sup> 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.<sup>2</sup> Take two of these three courses.<sup>3</sup> PSYX 242\* is required for all Social Work options. Those students going for the Chemical Dependency emphasis can fulfill SKC requirements with these additional courses: HS 210\*, PSYX 240A\*, PSYX 243\*, or SA 221\*.<sup>4</sup> Electives can be chosen from the following: CJUS 121A, HS 264\*, PSYX 233\*, PSYX 264\*, SOCI 215\*, or SOCI 260.

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## 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** 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.

Liberal Studies majors also have the option of earning a Bachelor of Science degree in Liberal Studies through **Montana State University - Billings'** online campus. After earning a generic Associate of Arts or Associate of Science degree, students may complete this degree online through **Montana State University - Billings** with various thematic concentrations. For more information, please refer to [www.msubillings.edu/msubonline/](http://www.msubillings.edu/msubonline/).

### Associate of Arts Degree

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

___	Course #	Title	Credits
___	HUM 261H	Introduction to Humanities: Origins and Influences I	4
___	HUM 262H	Introduction to Humanities: Origins and Influences II	4
___	WRIT 101W*	College Writing I	3
___	___	Communications (C) Requirement	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
<b>First Year Total</b>			<b>31</b>

___	Course #	Title	Credits
<b>Second Year</b>			
___	___	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, PHL 256*, RLST 100G, RLST 205 or RLST 220G	3
___	___	Natural Science (NL) Requirement	3
___	___	Natural Science (NL or N) Requirement	3
___	___	PHL 101H, PHL 110H, PHL 256*, PSCI 210B, PSCI 212B or PSCI 250HB	3
___	___	Social Sciences (A) Requirement	3
<b>Second Year Total</b>			<b>31</b>
<b>Total Credits</b>			<b>62</b>

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

### Advisors:

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## 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:

<b>First Year</b>			
Course #	Title		Credits
M 171M*	Calculus I		5
M 172M*	Calculus II		5
SP 110C	Public Speaking		3
WRIT 101W*	College Writing I		3
	CSCI 111 <sup>2</sup> or CSCI 113* <sup>2</sup>		4
	Electives		3
	Humanities (H) Requirement		3
	Natural Science (NL) Requirement <sup>1</sup>		3
	Social Sciences (A) Requirement		3
<b>First Year Total</b>			<b>32</b>

### Second Year

Course #	Title	Credits
M 221M*	Introduction to Linear Algebra	4
M 273M*	Multivariable Calculus	5
	Electives <sup>4</sup>	2
	Electives <sup>4</sup>	3
	Global Issues (G) Requirement	3
	Humanities (H) or Fine Arts (F) Requirement	3
	M 274M* <sup>3</sup> or Electives	5
	Natural Science (NL or N) Requirement	3
	Social Sciences (B) Requirement	3
<b>Second Year Total</b>		<b>31</b>
<b>Total Credits</b>		<b>63</b>

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> If transferring to MSU-Bozeman.

<sup>4</sup> 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 52 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.



# 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 <sup>1</sup>	3-4
<b>First Year Total</b>			<b>30-31</b>

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 <sup>2</sup>	3
___	___	Electives	3
___	___	Natural Science (NL or N) Requirement	3
___	___	Social Sciences (B) Requirement	3
___	___	Communications (C), Humanities (H), Social Sciences (A or B) <sup>3</sup> or WRIT 201W*	3
<b>Second Year Total</b>			<b>31**</b>
<b>Total Credits</b>			<b>61-62</b>

<sup>1,2</sup> Students interested in Music Education should take PSYX 100A and SP 110C respectively for these requirements.

<sup>3</sup> For education, take PSYX 230A\*.

\*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.

\*\*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
___	HLTH 230	School Health	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 <sup>1</sup>	3
___	___	Humanities (H) Requirement	3
___	___	Mathematics (M or Q) Requirement	3
___	___	Natural Science (NL) Requirement	3
___	___	Social Sciences (A) Requirement <sup>2</sup>	3-4
<b>First Year Total</b>			<b>32-33</b>

Second Year			
Course	#	Title	Credits
___	MUSI 112	Choir: Flathead Community Choir	1
___	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 <sup>3</sup>	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
<b>Second Year Total</b>			<b>32**</b>
<b>Total Credits</b>			<b>64-65</b>

<sup>1,2,3</sup> Students interested in Music Education should take NASX 105, PSYX 100A and SP 110C 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
___	HLTH 230	School Health	3

Please note additional music electives must be approved in advance by the UM Music Department Chair.

## 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 programs at **Montana State University - Bozeman** and **Carroll College** 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 web sites 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. Starting fall 2011, MSU Bozeman will have 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.

### 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
—	SP	110C	Public Speaking	
			or	
—	SP	120C	Interpersonal Relations/ Communications	3
—	WRIT	101W*	College Writing I	_3
			<b>First Semester Total</b>	<b>14</b>

#### Spring Semester

—	Course	#	Title	Credits
—	BIOM	250N*	Microbiology for Health Sciences	3
—	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
			<b>Second Semester Total</b>	<b>17</b>

#### Summer Semester

—	Course	#	Title	Credits
—	—	—	Humanities (H) Requirement	_3
			<b>Third Semester Total</b>	<b>3</b>

#### 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
			<b>First Semester Total</b>	<b>16</b>

#### 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
			<b>Second Semester Total</b>	<b>15</b>

**Total Credits** **65**

\*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
<b>First Semester Total</b>			<b>15</b>

Spring Semester			
Course #	Title	Credits	
___ M 121M*	College Algebra	3	
___ PSYX 100A	Introduction to Psychology	4	
___ SP 110C	Public Speaking	3	
___	Humanities (H) Requirement	3	
___	Social Sciences (B) Requirement	3	
<b>Second Semester Total</b>			<b>16</b>

Second Year			
Fall Semester	Course #	Title	Credits
___	BIOH 201NL*	Human Anatomy and Physiology I	4
___	BIOM 250N*	Microbiology for Health Sciences	3
___	BIOM 251L*	Microbiology for Health Sciences Lab	1
___	NUTR 221N*	Basic Human Nutrition	3
___	___	Humanities (H) or Fine Arts (F) Requirement	3
<b>First Semester Total</b>			<b>14</b>

Spring Semester			
Course #	Title	Credits	
___ BIOH 211NL*	Human Anatomy and Physiology II	4	
___ NRSG 258N*	Principles of Pathophysiology	4	
___ STAT 216M*	Introduction to Statistics <sup>1</sup>	4	
___	Global Issues (G) Requirement	3	
<b>Second Semester Total</b>			<b>15</b>

**Total Credits** 60

<sup>1</sup> 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 52 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  
Carroll College:

First Year			
Fall Semester	Course #	Title	Credits
___	BIOB 160NL	Principles of Living Systems	4
___	CHMY 121NL*	Introduction to General Chemistry <sup>1</sup>	4
___	SP 110C	Public Speaking <sup>1</sup>	
___	or		
___	SP 120C	Interpersonal Relations/Communications <sup>1</sup>	3
___	WRIT 101W*	College Writing I <sup>1</sup>	3
<b>First Semester Total</b>			<b>14</b>

Spring Semester			
Course #	Title	Credits	
___ CHMY 123NL*	Introduction to Organic and Biochemistry	4	
___ M 115M*	Probability and Linear Mathematics	3	
___ PHL 110H	Introduction to Ethics: Problems of Good and Evil	3	
___ PSYX 100A	Introduction to Psychology <sup>1</sup>	4	
___ SOCI 101A	Introduction to Sociology	3	
<b>Second Semester Total</b>			<b>17</b>

Second Year			
Fall Semester	Course #	Title	Credits
___	BIOH 201NL*	Human Anatomy and Physiology I <sup>1</sup>	4
___	BIOM 250N*	Microbiology for Health Sciences	3
___	BIOM 251L*	Microbiology for Health Sciences Lab	1
___	PSYX 230A*	Developmental Psychology <sup>1</sup>	3
___	___	HSTA 101B, HSTA 102B, HSTA 255B, HSTR 101B or HSTR 102B, Literature course from the Humanities (H) Requirement	3-4
<b>First Semester Total</b>			<b>17-18</b>

Spring Semester			
Course #	Title	Credits	
___	BIOH 211NL*	Human Anatomy and Physiology II <sup>1</sup>	4
___	NUTR 221N*	Basic Human Nutrition	3
___	STAT 216M*	Introduction to Statistics	4
___	___	RLST 100G or RLST 220G	3
<b>Second Semester Total</b>			<b>14</b>

**Total Credits** 62-63\*\*

Acceptance to the Nursing Program will still require 3 years at Carroll College.

<sup>1</sup> These courses are the minimum prerequisites to be able to apply to the Carroll College Nursing Program for students not earning their AS degree.

\*Indicates prerequisite and/or corequisite needed.

Check course description.

\*\*A maximum of 60 lower-level credits (100-200 level) may be transferred to Carroll College.



## 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
<b>First Semester Total</b>		<b>16</b>

## Spring Semester

Course #	Title	Credits
AHMS 144	Medical Terminology	3
BIOM 250N*	Microbiology for Health Sciences	3
M 115M*	Probability and Linear Mathematics <sup>1</sup>	
or		
M 121M*	College Algebra	3
NURS 101*	Nurse's Aide Training <sup>2</sup>	5
PSYX 230A*	Developmental Psychology	3
<b>Second Semester Total</b>		<b>17</b>

## Second Year

## Fall Semester

Course #	Title	Credits
BIOH 201NL*	Human Anatomy and Physiology I	4
HUM 261H	Introduction to Humanities: Origins and Influences I	4
or		
PHL 101H	Introduction to Philosophy: Reason and Reality	3
SP 110C	Public Speaking	3
_____	Social Sciences (B) Requirement	3
<b>First Semester Total</b>		<b>13-14</b>

## 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 <sup>3</sup>	3
_____	Global Issues (G) Requirement	3
<b>Second Semester Total</b>		<b>16</b>

**Total Credits 62-63**

<sup>1</sup> Students pursuing the BSN at Salish Kootenai should take M 115M\*, STAT 216M\* and SOCI 101A.

<sup>2</sup> Need to provide documentation of sufficient work hours as a CNA.

<sup>3</sup> A Fine Art course is required at SKC.

\*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 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
<b>First Semester Total</b>		<b>15</b>

## 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
<b>Second Semester Total</b>		<b>18</b>

## Second Year

## Fall Semester

Course #	Title	Credits
BIOH 201NL*	Human Anatomy and Physiology I	4
BIOM 250N*	Microbiology for Health Sciences	3
and		
BIOM 251L*	Microbiology for Health Sciences Lab	1
PSYX 230A*	Developmental Psychology	3
_____	Communications (C) Requirement	3
<b>First Semester Total</b>		<b>14</b>

## 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
<b>Second Semester Total</b>		<b>16</b>

**Total Credits 63**

## Advisors:

Dr. Sue Justis	Lori Elwell
RH/SAT 109	RH/SAT 108
(406) 756-3866	(406) 756-3899
sjustis@fvcc.edu	lelwell@fvcc.edu

Dr. Janice Alexander	Laura VanDeKop
RH/SAT 107	RH/SAT 144
(406) 756-3948	(406) 756-3998
jalexand@fvcc.edu	lvandeko@fvcc.edu



## Pre-Nursing Major Requirements and Prerequisites

	fvcc	MSU - Bozeman	SKC	Carroll	MSU - Northern	MT Tech of UM
<b>BIOB 160NL</b>	Principles of Living Systems	Required	Required	Required	Required	Required
<b>BIOH 201NL*</b>	Human Anatomy and Physiology I	Required	Required	Required	Required	Required
<b>BIOH 211NL*</b>	Human Anatomy and Physiology II	Required	Required	Required	Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement
<b>BIOM 250N* and BIOM 251L*</b>	Microbiology for Health Sciences and Lab	Required	BIOM 250N* is Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement	Required	Required
<b>CHMY 121NL*</b>	Introduction to General Chemistry	Required	Required	Required	Required	Required
<b>CHMY 123NL*</b>	Introduction to Organic and Biochemistry	Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement	Not Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement
<b>M 115M*</b>	Probability and Linear Mathematics	Prerequisite for STAT 216M*	Prerequisite for STAT 216M* if pursuing a BSN degree.	Prerequisite for STAT 216M*	Not Required	Not Required
<b>M 121M*</b>	College Algebra	Not Required	Not Required	Not Required	Required	Required
<b>NRSRG 100</b>	Introduction to Nursing	Not Required	Required	Not Required	Required	Required
<b>NRSRG 258N*</b>	Principles of Pathophysiology	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement	Not Required	Not Required	Required	Not Required
<b>NURS 101*</b>	Nurse's Aide Training	Not Required	Required	Not Required	Not Required	Not Required
<b>NUTR 221N*</b>	Basic Human Nutrition	Required	Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement	Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement
<b>PSYX 100A</b>	Introduction to Psychology	Required	Required	Required	Required	Required
<b>PSYX 230A*</b>	Developmental Psychology	Required	Required	Required	Not Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement
<b>SOCI 101A</b>	Introduction to Sociology	Required	Required for the BSN Degree, but not the ASN Degree	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement	Not Required	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement
<b>SP 110C</b>	Public Speaking	One is Required	SP 110C is Required	One is Required	SP 110C is Required	Not Required
<b>SP 120C</b>	Interpersonal Relations/Communications					
<b>STAT 216M*</b>	Introduction to Statistics	Required	Required for the BSN Degree	Not a Nursing Program Prerequisite, But Fulfills a Major Requirement	Required for the BSN Degree	Not Required
<b>WRIT 101W*</b>	College Writing I	Required	Required	Required	Required	Required
<b>WRIT 201W*</b>	College Writing II	Not Required	Required	Not Required	Not Required	Not Required

\* 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.*



### Contact Information for Area Nursing Programs

#### **Flathead Valley Community College 1-800-313-3822 [www.fvcc.edu](http://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](mailto:mridenour@fvcc.edu).

#### **MSU - Bozeman 1-888-678-2287 [www.montana.edu](http://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](mailto:mridenour@fvcc.edu).

#### **Salish Kootenai College 1-877-752-6553 [www.skcc.edu](http://www.skcc.edu)**

ASRN/BSN - Application deadline for fall semester is April 1.

#### **Carroll College 1-800-992-3648 [www.carroll.edu](http://www.carroll.edu)**

BA - Applications for Admission to the nursing major are available from the Department of Nursing and are due May 1 each year for admission into the major the following fall semester. Students seeking admission into the nursing major must meet the criteria listed on the previous page to be eligible along with NU 101 offered only at Carroll College to be eligible to make application to the Department of Nursing.

#### **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](http://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](http://www.mtech.edu)**

ASRN/BSN - Application deadline is October 28 for a January start date.

#### **Miles Community College 1-800-541-9281 [www.milesc.edu](http://www.milesc.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 250N\* and BIOH 201NL\*, BIOH 211NL\*, BIOM 251L\*, PHL 110H and M 145Q\*, PSYX 100A, PSYX 230A\*, SP 110C, STAT 216M\* or WRIT 101W\*.

#### **Spokane Community College 1-800-248-5644 [www.scc.spokane.edu](http://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 250N\* and BIOM 251L\*, 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.

*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.*

## 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 is March 1 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 proof of having completed at least 60 hours of volunteer or paid service in a medical or social field at the time of application. Additionally, students must take the Pharmacy College Admissions Test (PCAT). The PCAT is usually given in October and January of each year. The test registration deadline typically occurs a month 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/SAT 107	RH/SAT 106
(406) 756-3948	awenz@fvcc.edu
jalexand@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 52 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
<b>First Semester Total</b>			<b>17</b>

#### Spring Semester

___	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
<b>Second Semester Total</b>			<b>17-18</b>

#### Summer Semester<sup>1</sup>

___	Course #	Title	Credits
___	___	Humanities (H) Requirement	3
___	___	Global Issues (G) Requirement	3
<b>Third Semester Total</b>			<b>6</b>

#### Second Year

Fall Semester	Course #	Title	Credits
___	BIOH 201NL*	Human Anatomy and Physiology I	4
___	CHMY 221NL*	Organic Chemistry I	5
___	ECNS 201B	Principles of Microeconomics	3
___	___	Humanities (H) or Fine Arts (F) Requirement	3
<b>First Semester Total</b>			<b>15</b>

#### 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
___	___	SP 110C or SP 120C	3
<b>Second Semester Total</b>			<b>17</b>
<b>Total Credits</b>			<b>72-73</b>

<sup>1</sup> 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.



## 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
<b>First Year Total</b>			<b>32</b>

\*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
—	—	Social Sciences (A) Requirement	3
—	—	Social Sciences (B) Requirement	3
—	—	Natural Science (NL) Non-Physics Elective**	4
<b>Second Year Total</b>			<b>29</b>
<b>Total Credits</b>			<b>61</b>

\*\*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 <sup>1</sup>	
—	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
—	—	Communications (C) Requirement	3
—	—	Social Sciences (A) Requirement	3
<b>First Year Total</b>			<b>33</b>

#### Second Year

Course	#	Title	Credits
—	M	273M* Multivariable Calculus	5
—	—	Electives	
—	or		
—	M	225M* Introduction to Discrete Mathematics <sup>1</sup>	4
—	PHSX	212NL* General Physics II	6
—	—	Global Issues (G) Requirement <sup>2</sup>	3-5
—	—	Humanities (H) or Fine Arts (F) Requirement <sup>2</sup>	3-5
—	—	Social Sciences (B) Requirement	3
<b>Second Year Total</b>			<b>27-28</b>

**Total Credits 60-61**

<sup>1</sup> If pursuing the Computational Physics option.

<sup>2</sup> 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:

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jboger@fvcc.edu



## **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
<b>First Semester Total</b>		<b>18</b>

##### **Spring Semester**

Course #	Title	Credits
___ CHMY 143NL*	College Chemistry II	5
___ M 153M*	Precalculus Trigonometry	3
___ PHSX 205NL*	College Physics I	5
___ SP 110C	Public Speaking	3
___ WRIT 201W*	College Writing II	3
<b>Second Semester Total</b>		<b>19</b>

#### **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
<b>First Semester Total</b>		<b>17</b>

##### **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
<b>Second Semester Total</b>		<b>16</b>

**Total Credits** **70**

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

### Advisors:

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(406) 756-3948	awenz@fvcc.edu
jalexand@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 52 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.*



## 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 Web site <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.

### Advisors:

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RH/SAT 107	RH/SAT 106
(406) 756-3948	awenz@fvcc.edu
jalexand@fvcc.edu	

### 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 <sup>1</sup>	
	or			
___	BIOB	256 NL*	Intro Biol: Cells to Organisms <sup>2</sup>	4
___	CHMY	141NL*	College Chemistry I	5
___	M	162M*	Applied Calculus <sup>3</sup>	
	or			
___	M	171M*	Calculus I <sup>3</sup>	5
___	WRIT	101W*	College Writing I	3
			<b>First Semester Total</b>	<b>17</b>

#### 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
			<b>Second Semester Total</b>	<b>18</b>

#### 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
			<b>First Semester Total</b>	<b>19</b>

#### Spring Semester

Course	#	Title		Credits
___	BCH	280N*	Biochemistry	3
___	BIOB	170N*	Principles of Biological Diversity <sup>1</sup>	3
___	BIOB	171L*	Principles of Biological Diversity Lab <sup>1</sup>	2
	or			
___	BIOB	260NL*	Cellular and Molecular Biology <sup>2</sup>	5
___	CHMY	223NL*	Organic Chemistry II	5
___	SP	110C	Public Speaking	3
___	___	___	Humanities (H) or Fine Arts (F) Requirement	3
			<b>Second Semester Total</b>	<b>19</b>

**Total Credits** 73

<sup>1</sup> For students transferring to UM - Missoula.

<sup>2</sup> 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



## 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
<b>First Semester Total</b>			<b>17</b>

**Spring Semester**

Course #	Title		Credits
___ BIOM 250N*	Microbiology for Health Sciences		3
___ CHMY 123NL*	Introduction to Organic and Biochemistry		4
___ PHSX 205NL*	College Physics I		5
___ PSYX 100A	Introduction to Psychology		4
<b>Second Semester Total</b>			<b>16</b>

**Second Year**

Fall Semester			
Course #	Title		Credits
___ BIOH 201NL*	Human Anatomy and Physiology I		4
___ HLTH 201	First Aid		2
___ PHSX 207NL*	College Physics II		5
___ PSYX 230A*	Developmental Psychology <sup>1</sup>		3
<b>First Semester Total</b>			<b>14</b>

**Spring Semester**

Course #	Title		Credits
___ BIOH 211NL*	Human Anatomy and Physiology II		4
___ SP 110C	Public Speaking		3
___ STAT 216M*	Introduction to Statistics		4
___ _____	Global Issues (G) Requirement		3
___ _____	Humanities (H) or Fine Arts (F) Requirement		3
<b>Second Semester Total</b>			<b>17</b>

**Total Credits 64**

<sup>1</sup> 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 Bachelors 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:**

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## Associate of Science Degree

Suggested course of study for a transfer to  
**Rocky Mountain College** in pre-physician assistant:

**First Year**

Fall Semester			
Course #	Title		Credits
___ BIOB 160NL	Principles of Living Systems		4
___ CHMY 141NL*	College Chemistry I		5
___ M 115M*	Probability and Linear Mathematics		3
___ WRIT 101W*	College Writing I		3
<b>First Semester Total</b>			<b>15</b>

**Spring Semester**

Course #	Title		Credits
___ AHMS 144	Medical Terminology		3
___ CHMY 143NL*	College Chemistry II		5
___ SP 110C	Public Speaking		3
___ STAT 216M*	Introduction to Statistics		4
___ WRIT 201W*	College Writing II		3
<b>Second Semester Total</b>			<b>18</b>

**Second Year**

Fall Semester			
Course #	Title		Credits
___ BIOH 201NL*	Human Anatomy and Physiology I		4
___ ECNS 201B	Principles of Microeconomics		
___ or ECNS 202GB	Principles of Macroeconomics		3
___ PSYX 100A	Introduction to Psychology		4
___ _____	Any Literature or Philosophy course from the Humanities (H) Requirement		3
___ _____	RLST 100G or RLST 220G		3
<b>First Semester Total</b>			<b>17</b>

**Spring Semester**

Course #	Title		Credits
___ BIOH 211NL*	Human Anatomy and Physiology II		4
___ BIOM 250N*	Microbiology for Health Sciences		3
___ and BIOM 251L*	Microbiology for Health Sciences Lab		1
___ _____	ARTH 200FGH or ARTH 201FGH		3
___ _____	Any History course from the Social Sciences (B) Requirement		3-4
<b>Second Semester Total</b>			<b>14-15</b>

**Total Credits 64-65\*\***

\*Indicates prerequisite and/or corequisite needed. Check course description.  
\*\*The following classes are recommended in order to fulfill Rocky Mountain College's general education requirements. However, a maximum of 64 credits from a two-year college may be transferred to Rocky Mountain College.

___ _____	MUSI 101F, MUSI 207FG, THTR 101FH, THTR 120F, THTR 202 or THTR 235H		3
___ _____	One elective course from ANTY, PSCI, or SOCI		3
___ _____	PE 116, PE124, PE127, PE130, PE137, PE145, PE156, PE157*, PE158*, PE161, PE 162 or PE 163		

**Advisors:**

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## 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
<b>First Semester Total</b>		<b>15</b>

**Spring Semester**

Course #	Title	Credits
BIOH 211NL*	Human Anatomy and Physiology II	4
CHMY 143NL*	College Chemistry II	5
PHSX 205NL*	College Physics I	5
SP 110C	Public Speaking	3
<b>Second Semester Total</b>		<b>17</b>

**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
<b>First Semester Total</b>		<b>16</b>

**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
<b>Second Semester Total</b>		<b>15</b>

**Total Credits** 63<sup>1</sup>

<sup>1</sup> 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

**Advisors:**

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## 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.

**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
<b>First Semester Total</b>		<b>17</b>

**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
SP 110C	Public Speaking	3
STAT 216M*	Introduction to Statistics	4
<b>Second Semester Total</b>		<b>17</b>

**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
<b>Second Semester Total</b>		<b>18</b>

**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
_____	Humanities (H) or Fine Arts (F) Requirement	3
<b>Spring Semester Total</b>		<b>19</b>

**Total Credits** 71

**Advisors:**

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## 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 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**:

<u>First Year</u>			
Course #	Title		Credits
___ CAPP 120	Introduction to Computers		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
___ SP 110C	Public Speaking		3
___ WRIT 101W*	College Writing I		3
___ _____	Fine Arts (F) Requirement		3
___ _____	Humanities (H) or Fine Arts(F) Requirement		3
___ _____	RLST 100G or RLST 220G		3
	<b>First Year Total</b>		<b>34</b>
<u>Second Year</u>			
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 <sup>1</sup>		3
___ _____	Natural Science (NL) <sup>2</sup> Requirement		3-4
___ _____	Natural Science (NL or N) <sup>2</sup> Requirement		3-4
	<b>Second Year Total</b>		<b>28-30</b>
	<b>Total Credits</b>		<b>62-64</b>

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

<sup>1</sup>SOCI 215\* is needed for a Social Services concentration.

<sup>2</sup>GPHY 111\* is not acceptable as a Lab Science at UGF.

#### Associate of Arts Degree

Suggested course of study for a transfer to

#### The University of Montana – Missoula:

<u>First Year</u>			
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
	<b>First Year Total</b>		<b>31-33</b>
<u>Second Year</u>			
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
	<b>Second Year Total</b>		<b>31</b>
	<b>Total Credits</b>		<b>62-64</b>

\*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:**

<b>First Year</b>			
Course #	Title		Credits
___ BIOB 160NL	Principles of Living Systems		4
___ PSYX 100A	Introduction to Psychology		4
___ SP 110C	Public Speaking		3
___ WRIT 101W*	College Writing I		3
___ ___	Electives		6
___ ___	Humanities (H) Requirement		3
___ ___	Mathematics (M or Q) Requirement <sup>1</sup>		3
___ ___	Natural Science (NL) Requirement		3
___ ___	PSYX Elective <sup>2</sup>		3
<b>First Year Total</b>			<b>32</b>

<b>Second Year</b>			
Course #	Title		Credits
___ PSYX 230A*	Developmental Psychology		3
___ ___	Electives		3
___ ___	Elective <sup>2</sup>		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 <sup>2</sup>		3
___ ___	PSYX Elective <sup>2</sup>		3
___ ___	Social Sciences (B) Requirement		3
<b>Second Year Total</b>			<b>30</b>

**Total Credits 62**

<sup>1</sup> Montana State University recommends M 121M\* to be prepared for their Psychological Stats courses.

<sup>2</sup> MSU will accept 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 Web site 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 <sup>1</sup>	9
—	—	Fine Arts (F) Requirement	3
—	—	Humanities (H) Requirement	3
—	—	Natural Science (NL) Requirement	3
<b>First Year Total</b>			<b>30</b>
Second Year			
—	Course #	Title	Credits
—	SOCI 236GA	Introduction to Race and Ethnic Relations	3
—	STAT 216M*	Introduction to Statistics	4
—	—	Communications (C), Humanities (H), Social Sciences (A or B) or WRIT 201W*	3
—	—	Electives <sup>1</sup>	9
—	—	Global Issues (G) Requirement or Elective (if completed SOCI 236GA)	3
—	—	Humanities (H) or Fine Arts (F) Requirement	3
—	—	Natural Science (NL or N) Requirement	3
—	—	Social Sciences (B) Requirement	3
<b>Second Year Total</b>			<b>31</b>
<b>Total Credits</b>			<b>61</b>

See page 75 for the suggested program for those seeking the criminology option.

<sup>1</sup> Any SOCI, PSYX or HS 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
<b>First Year Total</b>			<b>30</b>

Second Year			
—	Course #	Title	Credits
—	—	Electives	3
—	—	Electives	3
—	—	Electives	3
—	—	Electives	3
—	—	Global Issues (G) Requirement	3
—	—	Humanities (H) or Fine Arts (F) Requirement	3
—	—	Mathematics (M or Q) Requirement <sup>1</sup>	3
—	—	Natural Science (NL or N) Requirement	3
—	—	Social Sciences (B) Requirement	3
—	—	SOCI Elective	3
<b>Second Year Total</b>			<b>30</b>

**Total Credits** **60**

<sup>1</sup> M 121M\* is recommended to prepare for MSU's Sociological Statistics course.

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

#### Advisor:

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## 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:

<b>First Year</b>			
—	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
<b>First Year Total</b>			<b>30</b>
<b>Second Year</b>			
—	Course #	Title	Credits
—	SP 110C	Public Speaking	3
—	or		
—	SP 150CF	Video Communication	3
—	or		
—	THTR 122C	Acting for Non-Majors <sup>1</sup>	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) or 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
<b>Second Year Total</b>			<b>30</b>
<b>Total Credits</b>			<b>60</b>

<sup>1</sup> THTR 122C will only apply to the Design/Technology option at The University of Montana - Missoula.

### SUGGESTED ELECTIVE LIST:

—	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	3

\*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.*

## 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:

<b>First Year</b>			
Course	#	Title	Credits
___	BIOB 160NL	Principles of Living Systems <sup>1</sup>	4
___	CHMY 121NL*	Introduction to General Chemistry	4
___	CHMY 123NL*	Introduction to Organic and Biochemistry	4
___	SP 110C	Public Speaking	3
___	WRIT 101W*	College Writing I	3
___	WRIT 121C*	Introduction to Technical Writing	3
___	___	Global Issues (G) Requirement	3
___	___	Humanities (H) Requirement	3
___	___	Social Sciences (A) Requirement	3
<b>First Year Total</b>			<b>30</b>

<b>Second Year</b>			
Course	#	Title	Credits
___	BIOB 260NL*	Cellular and Molecular Biology	5
___	BIOB 272N*	Genetics and Evolution	4
___	BIOO 235NL	Rocky Mountain Flora <sup>2</sup>	3
___	___	Electives	3
___	M 162M*	Applied Calculus	5
___	STAT 216M*	Introduction to Statistics	4
___	WILD 270N	Wildlife Habitat and Conservation <sup>3</sup>	3
___	___	Humanities (H) or Fine Arts (F) Requirement	3
___	___	Social Sciences (B) Requirement	3
<b>Second Year Total</b>			<b>30</b>
<b>Total Credits</b>			<b>60</b>

<sup>1</sup> 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.

<sup>2</sup> Not required for the Aquatics option.

<sup>3</sup> 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:**

<b>First Year</b>			
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
___	SP 110C	Public Speaking	3
___	WRIT 101W*	College Writing I	3
___	___	WRIT 121C* or WRIT 201W*	3
___	___	Humanities (H) Requirement	3
___	___	Social Sciences (A) Requirement	3
<b>First Year Total</b>			<b>32</b>

<b>Second Year</b>			
Course	#	Title	Credits
___	BIOO 235NL	Rocky Mountain Flora <sup>1</sup>	3
___	ECNS 101B	Economic Way of Thinking	3
___	GPHY 111NL	Introduction to Physical Geography	4
___	M 162M*	Applied Calculus	5
___	PHSX 205NL*	College Physics I	5
___	STAT 216M*	Introduction to Statistics	4
___	WRIT 201W*	College Writing II	3
___	___	Global Issues (G) Requirement	3
___	___	Humanities (H) or Fine Arts (F) Requirement	3
<b>Second Year Total</b>			<b>33</b>
<b>Total Credits</b>			<b>65</b>

<sup>1</sup> Course will not transfer directly but will prepare the student for a 400-level course.

\*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 52 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.



## **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 sixty-four (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 twenty (20) semester credits earned at FVCC and the final ten (10) credits earned at FVCC.
- V. A limit of twelve (12) 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 thirty (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, writing or speaking), 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 sixteen (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)

Speaking (one course)		Writing (one course)	
AHXR	101*	BMGT	237
ART	144	BUS	121*
ART	274*	WRIT	101W*
BGEN	110	WRIT	109C
BMKT	131*	WRIT	121C*
BMKT	132*		
CULA	148		
IDS	135C		
NRSG	144*		
REAL	241		
SP	110C		
SP	120C		
SP	150CF		
SP	215		

## INTERACTIONS

### COURSES: (one course)

AHMA	206*	CULA	250*
AHMS	175	ECNS	202GB
AHXR	295*	ENST	285
ART	247*	HLTH	202
ART	249*	HS	100A*
ARTH	200FGH	NRSG	138*
ARTJ	234*	NRSM	271GN
ARTJ	280*	SP	120C
BMGT	237	SP	215
BMIS	220*	SRVY	242*
BMKT	244*	SRVY	271*
CJUS	121A	WRIT	122C*
CSTN	198*		

## QUANTITATIVE LITERACY

### COURSES: (one course)

ACTG	122
ACTG	123*
ACTG	124*
AHMS	100*
AHXR	108N*
BFIN	220*
BFIN	222*
BFIN	224*
BUS	121*
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
REAL	241
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. 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

##### B. 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

### 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)***

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### ***Certificates of Applied Science***

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### ***Certificates***

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Welding Technology .....	187

For occupation information, tuition and fees, and other gainful employment disclosures, visit our website at [www.fvcc.edu/gainfulemployment.html](http://www.fvcc.edu/gainfulemployment.html).

## 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
— M 121M*	College Algebra	3
— SP 120C	Interpersonal Relations/Communications	3
— WRIT 122C*	Introduction to Business Writing	3
<b>First Semester Total</b>		<b>16</b>

##### 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
<b>Second Semester Total</b>		<b>17</b>

#### 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
<b>First Semester Total</b>		<b>15</b>

##### 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, BADM, BFIN, BUS, CAPP, CMPA	4
<b>Second Semester Total</b>		<b>17</b>

**Total Credits** **65**

#### 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, please contact the Campus Corps office at 756-3908.
- An internship is required for this program. Students must apply for internship placements for this program the prior semester. See page 39 for more information and application deadlines.

#### 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:

Ronnie Laudati BSS 127 (406) 756-3990 rlaudati@fvcc.edu	For general information, contact the Admissions office: (406) 756-3847.
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\*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.*

# 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
<b>First Semester Total</b>		<b>16</b>

### 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
<b>Second Semester Total</b>		<b>17</b>
<b>Total Credits</b>		<b>33</b>

\*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, please contact the Campus Corps office at 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.

### Advisors:

Kalispell	Libby
Ronnie Laudati	Chad Shilling
BSS 127	Room #105
(406) 756-3990	(406) 293-2721, ext. 233
rlaudati@fvcc.edu	cshillin@fvcc.edu

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.*



## 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;
- Diagnose and measure structural damage using tram and self-centering gauges according to industry specifications;
- Attach body anchoring devices; remove or reposition components as necessary;
- 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.

### Spring 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
— WLDG 114*	Mig/Tig Welding	4
<b>First Semester Total</b>		<b>15</b>

### Fall Semester

— Course #	Title	Credits
— ABODY 108	Introduction to Plastics and Adhesives	2
— ABODY 110*	Non-Structural Repairs II	
or		
— ABODY 112*	Auto Painting and Refinishing II	3
— M 111*	Technical Mathematics	3
— WRIT 122C*	Introduction to Business Writing	3
<b>Second Semester Total</b>		<b>11</b>
<b>Total Credits</b>		<b>26</b>

### Certifications:

- I-Car Certifications

### Additional Costs:

- There are lab fees associated with the courses 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
- Collision estimators
- Automotive glass installers

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

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

# ***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
<b>First Semester Total</b>		<b>19</b>

#### 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
___ HLTH 202++	Health and Behavioral Emergencies in the Workplace	1
<b>Second Semester Total</b>		<b>15</b>

### Second Year

#### Fall Semester

Course #	Title	Credits
___ BMGT 237	Human Relations in Business	3
___ CSTN 271*++	Construction Project Management	6
___ IT 175*	Introduction to AutoCAD	3
___ SP 110C	Public Speaking	3
or		
___ SP 120C	Interpersonal Relations/Communications	3
<b>First Semester Total</b>		<b>15</b>

#### Spring Semester

Course #	Title	Credits
___ BMGT 235	Management	3
___ CSTN 281*++	Construction Project Management II	6
___ WLDG 110*	Welding Theory I	4
___	CAPP or CASC Elective	1
___	Elective(s)	2
<b>Second Semester Total</b>		<b>16</b>

**Total Credits** **65**

### Program Information

- The program is sponsored by the Flathead Builders Association.
- 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.
- Successful completion of the AAS degree program will lead to National Center for Construction Education and Research (NCCER) Certification.

### 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 10.

### 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.

Advisor:

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OT 108  
(406) 756-3968  
pwade@fvcc.edu

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

++Required courses for a one-year Certificate of Applied Science

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



# ***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 (AAS) 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
—	SP	110C	Public Speaking	3
—	or			
—	SP	120C	Interpersonal Relations/ Communications	3
<b>First Semester Total</b>				<b>17</b>

### 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
<b>Second Semester Total</b>		<b>17</b>

### Second Year

Fall Semester		Course #	Title	Credits
—	ACTG	180*	Payroll Accounting	2
—	BGEN	235	Business Law	4
—	CAPP	112*	Short Courses: MS PowerPoint and	1
—	CAPP	116*	Short Courses: MS Excel and	1
—	CAPP	118*	Short Courses: MS Access or	1
—	CAPP	156*	MS Excel	3
—	ECNS	202GB	Principles of Macroeconomics	3
—	—	—	Electives: Take one class from: ACTG, BADM, BUS, CAPP, CASC or CMPA	3
<b>First Semester Total</b>				<b>15</b>

### Spring Semester

Course #	Title	Credits
— ACTG 150*	Accounting on Microcomputers	3
— BFIN 260*	Principles of Finance	4
— BGEN 110	Leadership	3
— BGEN 280*	Business Planning	3
— BGEN 299*	Capstone	3
<b>Second Semester Total</b>		<b>16</b>

**Total Credits 65**

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

### Program Information

- The program provides technical business manager/ marketer skill development.
- The program provides primary training for entry level management/ supervisory positions.
- An internship is an option for this program. See page 39 for more information and application deadlines.

### 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 10.

### 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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BSS 107  
(406) 756-3857  
chanchet@fvcc.edu

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.*



# ***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 inter-related 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
—	SP 110C	Public Speaking	
	or		
—	SP 120C	Interpersonal Relations/ Communications	<u>3</u>
	<b>First Semester Total</b>		<b>17</b>

### **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	<u>3</u>
	<b>Second Semester Total</b>		<b>17</b>
	<b>Total Credits</b>		<b>34</b>

\*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 10.

### **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.

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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

<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
___ CSTN	125	Basic Cabinetry and Furniture Making	3
___ IT	160	Blueprint Reading and Interpretation for Machining	2
___ IT	175*	Introduction to AutoCAD	3
___ IT	179*	Introduction to SOLIDWORKS Programming	2
___ M	111*	Technical Mathematics	3
___ WRIT	122C*	Introduction to Business Writing	3
<b>First Semester Total</b>			<b>16</b>

#### Spring Semester

<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
___ CSTN	126*	Intermediate Cabinetry	4
___ CSTN	127*	Intermediate Furniture Making	4
___ CSTN	218*	Advanced CNC Woods Manufacturing	6
___ HLTH	202	Health and Behavioral Emergencies in the Workplace	1
<b>Second Semester Total</b>			<b>15</b>
<b>Total Credits</b>			<b>31</b>

#### 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\*.

#### Additional Costs:

- The applicant must complete the COMPASS/ESL test.

#### 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

#### 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
PSYX 100A	Introduction to Psychology	4
SP 110C	Public Speaking	3
WRIT 101W*	College Writing I	3
<b>First Semester Total</b>		<b>16</b>

#### **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
<b>Second Semester Total</b>		<b>16</b>

### **Second Year**

#### **Fall Semester**

Course #	Title	Credits
CHMY 280NL*	Forensic Science I	4
CJUS 231*+	Criminal Evidence and Behavior	2
CJUS 271*+	Introduction to Judicial Function	1
PSCI 210B	Introduction to American Government	3
SOCI 201	Social Problems	3
or		
SOCI 236GA	Introduction to Race and Ethnic Relations	3
SP 215	Negotiations/Conflict Resolution	3
<b>First Semester Total</b>		<b>16</b>

#### **Spring Semester**

Course #	Title	Credits
CHMY 282NL*	Forensic Science II	4
CJUS 220	Introduction to Corrections	3
SOCI 260	Introduction to Juvenile Delinquency	3
TASK 113*	Keyboarding and Document Processing	3
WRIT 109C	Police Report Writing	3
<b>Second Semester Total</b>		<b>16</b>

**Total Credits 64**

\*Indicates prerequisite and/or corequisite needed. Check course description.  
+ Indicates courses that must be taken concurrently.

### **Optional Course**

Course #	Title	Credits
PE 112*	Handgun Marksmanship	1

### **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, please contact the Campus Corps office at 756-3908.
- An internship is an option for this program. See page 39 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 PE 112\* (optional class).

### **Admission Guidelines**

- This program is open to all students. See college admissions requirements on page 10.

### **Internships**

- Internships can be arranged in this program. Contact your advisor for information.

### **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: Richard Metcalf  
BSS 128  
(406) 756-3870  
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
ID 101	Transition to College	1
CULA 298*+	Internship I	3
<b>First Semester Total</b>		<b>18-21</b>

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	3
<b>Second Semester Total</b>		<b>16-19</b>

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
<b>Third Semester Total</b>		<b>18</b>

+Internship II (CULA 298\*), for 3 credits, MUST be registered for fall 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
<b>Fourth Semester Total</b>		<b>13</b>

**Total Credits** 74

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 Room 111, Blake Hall, and must be completed and returned to the Admissions Office by April 15.

(continued on next page)

## Customer Service Certificate

**This program is currently on moratorium.  
No new students will be admitted into this  
certificate program until further notice.**

- 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 101\*, 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.

Advisor: For general information,  
 Hillary Ginepra contact the Admissions office:  
 AT 158 (406) 756-3847.  
 (406) 756-3862  
 hginepra@fvcc.edu

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
— SP 120C	Interpersonal Relations/Communications	
	or	
— SP 215	Negotiations/Conflict Resolution	3
— TASK 150	Customer Service Strategies	3
— WRIT 122C*	Introduction to Business Writing	3
	<b>Total Credits</b>	<b>16</b>

\*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 10.

### 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: For general information,  
 Brenda Rudolph, BSS 106 contact the Admissions office:  
 (406) 756-3858 (406) 756-3847.  
 brudolph@fvcc.edu



## 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
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
SP	120C	Interpersonal Relations/Communications	3
<b>First Semester Total</b>			<b>16</b>

#### 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
<b>Second Semester Total</b>			<b>17</b>

Advisor:

Marlyn James  
BSS 123  
(406) 756-3869  
mjames@fvcc.edu

#### 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
<b>First Semester Total</b>			<b>19</b>

#### 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
<b>Second Semester Total</b>			<b>13-15</b>

#### 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, please contact the Campus Corps office at 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 10.

#### 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.

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

# 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
CAPP 106*	Short Courses: Computer Applications	1
ELEC 100	Introduction to Electricity	3
ELEC 101	Electrical Fundamentals I	5
ELEC 137	Electrical Drafting	2
M 111*	Technical Mathematics	3
WRIT 122C*	Introduction to Business Writing	3
<b>First Semester Total</b>		<b>17</b>

#### Spring Semester

Course #	Title	Credits
ELEC 102*	Electrical Fundamentals II	5
ELEC 103	Electrical Code Study Fundamentals	2
ELEC 111	Electric Meters and Motors	3
ELEC 133	Basic Wiring	3
HLTH 202	Health and Behavioral Emergencies in the Workplace	1
IT 175*	Introduction to AutoCAD	3
<b>Second Semester Total</b>		<b>17</b>

### Second Year

#### Fall Semester

Course #	Title	Credits
ELEC 139*	Electric Code Study - Residential	3
ELEC 201*	Alternating Current Theory	5
ELEC 204*	Electrical Planning and Estimating	3
ELEC 205	Electrical Design and Lighting	3
ELEC 211*	AC Measurements	3
<b>First Semester Total</b>		<b>17</b>

### Spring Semester

Course #	Title	Credits
ELEC 233*	Commercial Wiring Lab	3
ELEC 236*	Conduit, Raceways and Code Lab	3
ELEC 239	Grounding/Bonding Fundamentals	3
ELEC 241	Electric Motor Controls	3
ELEC 247	Medium and High Voltage	3
SP 120C	Interpersonal Relations/Communications	3
<b>Second Semester Total</b>		<b>18</b>

### Total Credits

69

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

### 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 Guideline

- 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.

### Additional Costs

- There are lab fees associated with some of the courses in this program. The lab fees will be 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 Training program, a maximum of 3,115 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.

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



# ***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 course work. 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
ELEC 100	Introduction to Electricity	3
ELEC 101	Electrical Fundamentals I	5
ELEC 133	Basic Wiring	3
ELEC 137	Electrical Drafting	2
HLTH 202	Health and Behavioral Emergencies in the Workplace	1
<b>First Semester Total</b>		<b>15</b>

### **Spring Semester**

Course #	Title	Credits
ELEC 102*	Electrical Fundamentals II	5
ELEC 103	Electrical Code Study Fundamentals	2
ELEC 111	Electric Meters and Motors	3
M 111*	Technical Mathematics	3
WRIT 122C*	Introduction to Business Writing	3
<b>Second Semester Total</b>		<b>16</b>
<b>Total Credits</b>		<b>31</b>

\*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 remedial math/communications classes before enrolling in ELEC 102\* or higher ELEC classes.

### **Additional Costs**

- There are lab fees associated with some of the courses in this program. They are listed in the semester schedule.

### **Apprenticeship Information**

- For apprenticeship information, contact the Montana Department of Labor Apprentice Training Board at (406) 444-3556.

Advisor: Pete Wade  
OT 108  
(406) 756-3968  
pwade@fvcc.edu

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
— EM 100*	Principles of Emergency Management	3
— EM 110*	Disaster Response	3
— SP 120C	Interpersonal Relations/Communications	3
— WRIT 101W*	College Writing	3
<b>First Semester Total</b>		<b>17</b>

#### **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
<b>Second Semester Total</b>		<b>16</b>

### **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
<b>First Semester Total</b>		<b>18</b>

#### **Spring Semester**

Course #	Title	Credits
— 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
— SP 215	Negotiations/Conflict Resolution	3
<b>Second Semester Total</b>		<b>16</b>
<b>Total Credits</b>		<b>67</b>

\*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, please contact the Campus Corps office at 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.

Advisor:

Kris Long  
LRC 110/111  
(406) 756-3901  
klong@fvcc.edu

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**

<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
___ ACTG	101	Accounting Procedures I	4
___ BMGT	237	Human Relations in Business	3
___ BMKT	225	Marketing	3
___ M	108*	Business Mathematics	<u>4</u>
<b>First Semester Total</b>			<b>14</b>

#### **Spring Semester**

<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
___ 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	<u>3</u>
<b>Second Semester Total</b>			<b>16</b>
<b>Total Credits</b>			<b>30</b>

\*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 courses 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 10.

#### **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.

Advisor: Chris Hanchett BSS 107 (406) 756-3857 chanchet@fvcc.edu	For general information, contact the Admissions office: (406) 756-3847.
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# ***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

<u>Fall Semester</u>	<u>Course #</u>	<u>Title</u>	<u>Credits</u>
___	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
		<b>First Semester Total</b>	<b>15</b>

### Spring Semester

<u>Course #</u>	<u>Title</u>	<u>Credits</u>
___ 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
	<b>Second Semester Total</b>	<b>17</b>

### Second Year

<u>Fall Semester</u>	<u>Course #</u>	<u>Title</u>	<u>Credits</u>
___	BGEN 235	Business Law	4
___	SP 120C	Interpersonal Relations/Communications	
	or		
___	SP 215	Negotiations/Conflict Resolution	3
___	TASK 151	Speedwriting	5
___	TASK 201*	Production Keyboarding	3
___	TASK 202*	Machine Transcription	2
		<b>First Semester Total</b>	<b>17</b>

### Spring Semester

<u>Course #</u>	<u>Title</u>	<u>Credits</u>
___ 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
	<b>Second Semester Total</b>	<b>16</b>
	<b>Total Credits</b>	<b>65</b>

### 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.
- Students complete an internship to gain real world experience. Discuss this with your advisor and the internship coordinator the prior semester.

### 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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(406) 756-3858  
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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:
  - antitlastic 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
BUS 121*	Math and Communications for the Trades	5
<b>First Semester Total</b>		<b>18</b>

#### Spring Semester

Course #	Title	Credits
ART 274*	Portfolio Presentation	1
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
<b>Second Semester Total</b>		<b>17</b>

### 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
<b>First Semester Total</b>		<b>16</b>

#### 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
<b>Second Semester Total</b>		<b>16</b>
<b>Total Credits</b>		<b>67</b>

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

### 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.

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AT 230  
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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 web sites; and
- Create a portfolio reflecting knowledge, techniques, and creativity gained during the student's course of study.

### First Year

Fall Semester	Course #	Title	Credits
—	ART 144	Design for Graphic Communications	3
—	ART 148	Digital Illustration I	3
—	ARTZ 105F	Visual Language - Drawing	3
—	ARTZ 106F	Visual Language - 2D Foundations	3
—	WRIT 101W*	College Writing I	
—	WRIT 122C*	Introduction to Business Writing	3
<b>First Semester Total</b>			<b>15</b>

### Spring Semester

Course #	Title	Credits
— ART 248*	Digital Illustration II	3
— ARTZ 108F*	Visual Language - 3D Foundations	3
— ECNS 201B	Principles of Microeconomics	
— or ECNS 202GB	Principles of Macroeconomics	3
— M 095*	Intermediate Algebra	4
— PHOT 154F*	Exploring Digital Photography	3
<b>Second Semester Total</b>		<b>16</b>

### Second Year

Fall Semester	Course #	Title	Credits
—	ART 149	Digital Publishing	3
—	ART 153*	Digital Imaging I	3
—	ART 267*	3D Animation and Modeling	4
—	BMKT 225	Marketing	3
—	CMPA 275	Web Development Tools: Dreamweaver	4
<b>First Semester Total</b>			<b>17</b>

### Spring Semester

Course #	Title	Credits
— ART 247*	Digital Portfolio Preparation	4
— ART 249*	Digital Imaging II	3
— ART 268*	3D Animation and Modeling II	4
— CMPA 270*	Advanced Web Design with XHTML and CSS	3
— ITS 298*	Internship/Cooperative Education	3
<b>Second Semester Total</b>		<b>17</b>

**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 39 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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(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 web sites; and
- Compile a digital portfolio reflecting knowledge, techniques and creativity gained during the student's course of study.

#### **Fall Semester**

— Course #	Title	Credits
— ART 144	Design for Graphic Communications	3
— ART 148	Digital Illustration I	3
— ART 153*	Digital Imaging I	3
— ARTZ 105F	Visual Language-Drawing	3
— CMPA 275	Web Development Tools: Dreamweaver	4
	<b>First Semester Total</b>	<b>16</b>

#### **Spring Semester**

— Course #	Title	Credits
— ART 149	Digital Publishing	3
— ART 247*	Digital Portfolio Preparation	4
— ART 248*	Digital Illustration II	3
— ART 249*	Digital Imaging II	3
— M 095*	Intermediate Algebra	4
	<b>Second Semester Total</b>	<b>17</b>
	<b>Total Credits</b>	<b>33</b>

\*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.

#### **Advisor:**

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(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
<b>First Semester Total</b>			<b>15</b>

##### 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 220*	Medical Office Procedures	4
—	BGEN 110	Applied Business Leadership	3
—	SP 215	Negotiations/Conflict Resolution	3
—	WRIT 122C*	Introduction to Business Writing	3
<b>Second Semester Total</b>			<b>17</b>

#### 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
—	AHMS 210*	Basic Medical Coding	3
—	BMIS 211*	Introduction to Business Decision Support	4
<b>First Semester Total</b>			<b>17</b>

\*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
<b>Second Semester Total</b>			<b>17</b>
<b>Total Credits</b>			<b>66</b>

\*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. See page 39 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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(406) 756-3847.

## **Health Information Technology: Implementation and Maintenance Specialist Online Certificate**

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
	<b>Total Credits</b>	<b>19</b>

### **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
	<b>Total Credits</b>	<b>19</b>

\*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.

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(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:

- Install a light commercial and residential heating, air conditioning, ventilation and/or refrigeration system;
- 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
CAPP	106*	Short Courses: Computer Applications	1
HLTH	202	Health and Behavioral Emergencies in the Workplace	1
HVAC	101	HVAC Fundamentals	2
HVAC	131	HVAC Electrical I	3
HVAC	141*	HVAC Systems I	3
M	111*	Technical Mathematics	3
WRIT	122C*	Introduction to Business Writing	3
<b>First Semester Total</b>			<b>16</b>

### Spring Semester

Course	#	Title	Credits
ELEC	111	Electric Meters and Motors	3
HVAC	120	Boiler Operator Certification	2
HVAC	231*	HVAC Electrical II	3
HVAC	241*	HVAC Systems II	3
IT	175*	Introduction to AutoCAD	3
<b>Second Semester Total</b>			<b>14</b>
<b>Total Credits</b>			<b>30</b>

### Additional Professional Development Program Offerings

Course	#	Title	Credits
HVAC	251*	HVAC Refrigeration I	3
HVAC	264*	HVAC Field Experience I	10

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

### Program Information

- This program is sponsored by local Refrigeration Service Engineers Society (RSES) employers.

### 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 (HVAC) classes.

### Certifications

- State Refrigeration license
- NATE Certified Curriculum
- RSES membership program
- Gas fitter
- ICE Competency

### 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 guidelines on page 10.

### 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.

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For general information,  
contact the Admissions  
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## ***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.

### **Fall Semester**

Course	#	Title	Credits
EQOP	105	Introduction to Heavy Equipment Operator	10
HLTH	202	Health and Behavioral Emergencies in the Workplace	1
WLDG	110*	Welding Theory I	4
<b>First Semester Total</b>			<b>15</b>

### **Spring Semester**

Course	#	Title	Credits
EQOP	110*	Heavy Equipment Operator II	10
M	111*	Technical Mathematics	3
WRIT	122C*	Introduction to Business Writing	3
<b>Second Semester Total</b>			<b>16</b>

**Total Credits** 31

### **Optional Class Offerings**

Course	#	Title	Credits
EQOP	215*	Heavy Equipment Operator Internship	10
WLDG	114*	Mig/Tig Welding	4

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

### **Program Information**

- This program is sponsored by the Montana Contractor Association and is NCCER accredited.

### **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.

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# Human Services

## Associate of Applied Science Degree

(Also offered at Lincoln County Campus)

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.

		<u>First Year</u>	
<u>Fall Semester</u>			
—	<u>Course #</u>	<u>Title</u>	<u>Credits</u>
—	HS 100A*	Introduction to Human Services/ Social Work	3
—	SP 120C	Interpersonal Relations/ Communications	3
—	M 108*	Business Mathematics	4
—	WRIT 101W*	College Writing I	3
—	—	Specialty Course	2-3
<b>First Semester Total</b>			<b>15-16</b>

<u>Spring Semester</u>			
—	<u>Course #</u>	<u>Title</u>	<u>Credits</u>
—	BMIS 211*	Introduction to Business or Decision Support	4
—	CAPP 131*	Basic MS Office	2
—	HS 279*	Legal/Ethical/Professional Issues	3
—	PSYX 100A	Introduction to Psychology	4
—	WRIT 121C*	Introduction to Technical Writing	3
—	—	Specialty Course	2-3
—	—	Specialty Course	2-3
—	—	Specialty Course	2-3
<b>Second Semester Total</b>			<b>20-23</b>

### Second Year

#### Fall Semester

—	<u>Course #</u>	<u>Title</u>	<u>Credits</u>
—	HS 210*	Case Management	2
—	HS 250*	Interviewing/Crisis Intervention	4
—	HS 262*	Field Experience and Seminar I	
—	or		
—	HS 264*	Field Experience and Seminar II	
—	or		
—	HS 266*	Field Experience and Seminar III	3
—	—	Specialty Course	2-3
—	—	Specialty Course	2-3
—	—	Specialty Course	2-3
<b>First Semester Total</b>			<b>17-18</b>

#### Spring Semester

—	<u>Course #</u>	<u>Title</u>	<u>Credits</u>
—	HS 262*	Field Experience and Seminar I	
—	or		
—	HS 264*	Field Experience and Seminar II	
—	or		
—	HS 266*	Field Experience and Seminar III	3
—	PSYX 264*	Fundamentals of Group Dynamics	3
—	—	Specialty Course	2-3
—	—	Electives	2-3
—	—	Electives	4
<b>Second Semester Total</b>			<b>14-16</b>

**Specialty Courses:** Minimum of 24 credits from the following list:

—	<u>Course #</u>	<u>Title</u>	<u>Credits</u>
—	PSYX 150	Drugs and Society	3
—	PSYX 211	Personality and Adjustment	3
—	PSYX 230A*	Developmental Psychology	3
—	PSYX 233*	Fundamentals of Psychology of Aging	3
—	PSYX 240A*	Fundamentals of Abnormal Psychology	3
—	PSYX 242*	Fundamentals of Substance Abuse and Addiction	3
—	PSYX 250NA*	Fundamentals of Biological Psychology	3
—	PSYX 260A*	Fundamentals of Social Psychology	3
—	PSYX 275*	Fundamentals of Behavior Modification	3
—	SA 221*	Assessment and Evaluation Procedures of Substance Abuse	2
—	SOCI 101A	Introduction to Sociology	3
—	SOCI 201	Social Problems	3
—	SOCI 215*	Introduction to Sociology of the Family	3
—	SOCI 236GA	Introduction to Race and Ethnic Relations	3
—	SOCI 260	Introduction to Juvenile Delinquency	3
—	SOCI 271	Introduction to Family Violence	3
<b>Total Credits</b>			<b>69-73</b>

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

(continued on next page)

**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, please contact the Campus Corps office at 756-3908.

**Admission Guidelines**

- This program is open to all students. See college admissions guidelines on page 10.

**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.

Advisor:  
Rick Halverson  
BSS 129  
(406) 756-3871  
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 interpret manufacturing part blueprints;
- Operate manual mills and lathes;
- Operate CNC controlled mills and lathes;
- Perform setups and tool selection for CNC vertical mill and lathe machines;
- Perform tool off-sets;
- Generate CNC program code manually or using computer software;
- Develop CAD/CAM programs and control routines in MASTERCAM and SOLIDWORKS;
- Edit CNC programs;
- Upload and download CNC programs from off-line computers to CNC machine tools; and
- Measure and inspect parts produced using manual hand tools to established quality control and industry standards.

### **First Semester**

Course #	Title	Credits
IT 160	Blueprint Reading and Interpretation for Machining	2
IT 177	Introduction to MASTERCAM: Mill	3
M 111*	Technical Mathematics	3
MFGT 115	Machine Shop Fundamentals	2
MFGT 120	Mill and Lathe Systems	4
WRIT 122C*	Introduction to Business Writing	3
<b>First Semester Total</b>		<b>17</b>

### **Second Semester**

Course #	Title	Credits
HLTH 202	Health and Behavioral Emergencies in the Workplace	1
IT 178	Introduction to MASTERCAM: Lathe	3
IT 179*	Introduction to SOLIDWORKS Programming	2
MFGT 128*	HAAS CNC TM1 Lathe Operations	3
MFGT 129*	HAAS CNC TM1 Vertical Mill Operations	3
MFGT 141*	Machine Quality Control and Precision Measurement	3
<b>Second Semester Total</b>		<b>15</b>
<b>Total Credits</b>		<b>32</b>

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

### **Admission Requirements:**

- 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 remedial math/communications classes before enrolling in MFGT 120 or higher MFGT classes.

Coordinator, Industrial Machine Technology:

Lloyd Haugen  
lhauen@fvcc.edu

Advisor:

Pete Wade  
OT 108  
(406) 756-3968  
pwade@fvcc.edu

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 and be able to develop and maintain a database using a desktop database management system; 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
ECNS 201B	Principles of Microeconomics	
or		
ECNS 202GB	Principles of Macroeconomics	3
M 095*	Intermediate Algebra	4
SP 110C	Public Speaking	3
WRIT 122C*	Introduction to Business Writing	3
		<b>27</b>

#### Program Courses

Course #	Title	Credits
CAPP 158*	MS Access Offered 2013/15	3
ITS 164*	Networking Fundamentals Offered 2013/15	3
ITS 210*	Network Operating System-Desktop Offered 2012/14	3
ITS 212*	Network Operating System- Server Admin Offered 2013/15	3
ITS 218*	Network Security Offered 2012/14	3
ITS 280*	Computer Repair and Maintenance Offered 2012/14	3
		<b>18</b>

#### Spring Semester

Course #	Title	Credits
ITS 216*	Network Operating System- Directory Services Offered 2014/16	2
ITS 220*	Fundamentals of Wireless LANS Offered 2013/15	3
ITS 221*	Project Management	3
ITS 224*	Introduction to Linux Offered 2013/2014	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
		<b>20</b>

#### Total Credits

**65**

Fall semester courses are prerequisites for the spring semester courses with the exception of CAPP 156\* and CMPA 275. All prerequisites must be adhered to by the student.

Students must consult the program advisor for course sequencing.

#### Program Information

- Students develop skills in computer hardware and software, database development, network management and desktop and network operating systems.
- All required courses with 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 39 for more information and application deadlines.

#### Admission Guidelines

- Students are expected to have fundamental knowledge of the Windows Operating System and Internet usage and MS Office. If not, students must take CAPP 101\*, CAPP 108\* and 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
  - MOS (Microsoft Office Specialist) certification in Excel and Access
  - CCNA (Cisco Certified Network Associate)
  - Network + Certification

#### 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, or develop and maintain databases. 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:

Phil MacGregor

BSS 104

(406) 756-3865

pmacgreg@fvcc.edu

For general information,

contact the Admissions office:

(406) 756-3847.

**Information Technology****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 web sites. The Web Technology program is ideal for individuals interested in web site 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 web sites 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 web site for a client.

**First Year****Fall Semester**

Course #	Title	Credits
ART 153*	Digital Imaging I	3
BMKT 225	Marketing	3
CMPT 275	Web Development Tools: Dreamweaver	4
CSCI 111	Programming with Java I	4
WRIT 101W*	College Writing I	
or		
WRIT 122C*	Introduction to Business Writing	3
<b>First Semester Total</b>		<b>17</b>

**Spring Semester**

Course #	Title	Credits
BMKT 130	Search Engine Marketing	3
CMPT 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
<b>Second Semester Total</b>		<b>17</b>

**Second Year****Fall Semester**

Course #	Title	Credits
CMPT 274*	Interactive Media for the Web	3
CSCI 210*	Web Programming	4
ECNS 201B	Principles of Microeconomics	
or		
ECNS 202GB	Principles of Macroeconomics	3
ITS 164*	Networking Fundamentals	3
SP 110C	Public Speaking	3
<b>First Semester Total</b>		<b>16</b>

**Spring Semester**

Course #	Title	Credits
ART 247*	Digital Portfolio Presentation	4
CSCI 213*	Web Programming Techniques: PHP II	4
ITS 221*	Project Management	3
ITS 298*	Internship/Cooperative Education	3
<b>Second Semester Total</b>		<b>14</b>
<b>Total Credits</b>		<b>64</b>

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

**Program Information**

- Program emphasis is on developing skills in three areas of web site 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 39 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 web sites
- 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.



## ***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:

- Be able to 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
<b>First Semester Total</b>		<b>16</b>

### **Spring Semester**

Course #	Title	Credits
BMGT 235	Management	3
ECNS 201B	Principles of Microeconomics	3
or		
ECNS 202GB	Principles of Macroeconomics	3
SP 120C	Interpersonal Relations/Communications	3
or		
SP 215	Negotiations/Conflict Resolution	3
_____	Electives in ACTG, BADM, BUS, CAPP or CMPA	3
<b>Second Semester Total</b>		<b>12</b>

### **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
<b>Total Credits</b>		<b>30</b>

\*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 10.

### **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.

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BSS 107  
(406) 756-3857  
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	<u>Credits</u>
— 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
<b>First Semester Total</b>		<b>14</b>

#### Spring Semester

— Course #	Title	<u>Credits</u>
— 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
<b>Second Semester Total</b>		<b>15</b>

#### Summer Semester

— Course #	Title	<u>Credits</u>
— CAPP 154*	MS Word	3
— HLTH 202	Health and Behavioral Emergencies in the Workplace	1
— PSYX 100A	Introduction to Psychology	4
— SP 120C	Interpersonal Relations/ Communications	_3
<b>Third Semester Total</b>		<b>11</b>

### Second Year

#### Fall Semester

— Course #	Title	<u>Credits</u>
— 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
<b>First Semester Total</b>		<b>18</b>

#### Spring Semester

— Course #	Title	<u>Credits</u>
— AHMA 298*	Medical Assisting Externship**	4
— AHMA 299*	Medical Assisting Portfolio Development	1
— AHMS 252*	Computerized Medical Billing	_2
<b>Second Semester Total</b>		<b>7</b>

**Total Credits** **65**

Strongly recommended:

— Course #	Title	<u>Credits</u>
— AHMS 203*	Medical Machine Transcription	3
— BIOM 251L*	Microbiology for Health Sciences Lab	1

\*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.

*(continued on next page)*





### 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, please contact the Campus Corps office at 756-3908.

### 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](http://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.

### 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 12<sup>th</sup> in the top 25 occupations showing growth in Montana.
- On a national level, medical assistant is the 10<sup>th</sup> 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.

### Advisor:

Karla West  
BSS 108  
(406) 756-3918  
kwest@fvcc.edu

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

## ***Medical Coding***

### ***Associate of Applied Science***

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
<b>First Semester Total</b>		<b>16</b>

##### **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
<b>Second Semester Total</b>		<b>15</b>

#### **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
<b>First Semester Total</b>		<b>17</b>

\*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
<b>Second Semester Total</b>		<b>16</b>
<b>Total Credits</b>		<b>64</b>

##### **Program Information**

- 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.
- Students complete an internship to gain real world experience. Discuss this with the advisor and the internship coordinator the prior semester.

##### **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.

Advisor:

Brenda Rudolph  
BSS 106  
(406) 756-3858  
brudolph@fvcc.edu

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

## ***Medical Transcription***

### ***Online Certificate of Applied Science***

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)**

<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
— 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
<b>First Semester Total</b>			<b>17</b>

#### **Spring Semester (Must take all classes together)**

<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
— 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
<b>Second Semester Total</b>			<b>19</b>
<b>Total Credits</b>			<b>36</b>

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

#### **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.**

#### **Certifications**

- 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.

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(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**

—	<u>Course #</u>	<u>Title</u>	<u>Credits</u>
—	ARTJ 231	3D Jewelry Design and Modeling I	4
	or		
—	IT 175*	Introduction to AutoCAD	3
—	ARTZ 106F	Visual Language-2D Foundations	3
—	PHOT 154F*	Exploring Digital Photography	3
—	WLDG 113	Mig Welding	2
—	WLDG 145	Fabrication Basics I	3
		<b>First Semester Total</b>	<b>14-15</b>

#### **Spring Semester**

—	<u>Course #</u>	<u>Title</u>	<u>Credits</u>
—	ART 274*	Portfolio Presentation	1
—	ARTZ 252*	Sculpture Studio: Metal Forging	3
—	ARTZ 252*	Sculpture Studio: CNC Fabrication	3
—	CSTN 125	Basic Cabinetry and Furniture Making	3
—	ELEC 133	Basic Wiring	3
—	—	Elective	1
		<b>Second Semester Total</b>	<b>14</b>
		<b>Total Credits</b>	<b>28-29</b>

\*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.

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Pete Wade  
OT 108  
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pwade@fvcc.edu

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contact the Admissions office:  
(406) 756-3847.



# Natural Resources Conservation and Management

## **Associate of Applied Science Degree**

The Natural Resources Conservation and Management degree 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 occurring 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

<u>Fall Semester</u>	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	<u>5</u>
<b>First Semester Total</b>			<b>16</b>

### Spring Semester

Course #	Title	Credits
— ENSC 245NL	Soils	4
— ENSC 272	Water Resources	4
— FORS 152	Sustainable Silviculture	4
— WRIT 101W*	College Writing I	<u>3</u>
<b>Second Semester Total</b>		<b>15</b>

Advisor: For general information, contact  
Christina Relyea the Admissions office:  
RH/SAT 156 (406) 756-3847.  
(406) 756-3946  
crelyea@fvcc.edu

### Second Year

<u>Fall Semester</u>	Course #	Title	Credits
—	ENST 285	Environmental Policy and Impact Analysis	3
—	FORS 251*	Photogrammetry and Remote Sensing	3
—	FORS 272*	Inventorying for Adaptive Management and Restoration	4
—	PTRM 201	Recreation Management	2
—	SP 120C	Interpersonal Relations/Communications	3
—	SRVY 245*	GPS Mapping	<u>2</u>
<b>First Semester Total</b>			<b>17</b>

### 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
— SRVY 233*	Introduction to GIS for Natural Resource Assessment	4
— WILD 270N	Wildlife Habitat and Conservation	<u>3</u>
<b>Second Semester Total</b>		<b>16</b>
<b>Total Credits</b>		<b>64</b>

\*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.

# **Natural Resources Conservation and Management**

## ***Certificate of Applied Science***

The Natural Resources Conservation and Management certificate prepares students to work as technicians collecting and reporting environmental information through techniques developed in the traditional fields such as forestry, range and water. Students will apply these techniques to the emerging fields of restorative and sustainable land management. Upon completion of this program, students will:

- Demonstrate strong math and communication skills;
- Use various measuring instruments and accurately record data;
- Summarize and present results from collected data to supervisors and interested parties;
- Identify many trees, shrubs, forbs and grasses occurring in Montana;
- Use compasses, GPS receivers and maps to navigate within the public land survey system and locate ownerships and establish sample points; and
- Have a foundation upon which to build further understanding of the interrelationships among natural resources and its users.

### **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
		<b>First Semester Total</b>	<b>16</b>

### **Spring Semester**

—	Course #	Title	Credits
—	ENSC 245NL	Soils	4
—	ENSC 272	Water Resources	4
—	FORS 152	Sustainable Silviculture	4
—	SP 120C	Interpersonal Relations/Communications	3
—	WRIT 101W*	College Writing I	3
		<b>Second Semester Total</b>	<b>18</b>
		<b>Total Credits</b>	<b>34</b>

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

### **Program Information**

- This program is an ideal vehicle from which one can pursue employment in the traditional areas of forestry, range, water, wildlife and recreation, but also urban forestry, land restoration and land rehabilitation. A student can also continue for a second year and earn an AAS degree.

### **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.

### **Admission Guidelines**

- This program is open to all students. See college admissions requirements on page 10.

### **Additional Costs**

- There are lab fees associated with some of the courses 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 a certificate in Natural Resources Conservation and Management.

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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 your knowledge as well as your marketability in a highly competitive field.

- Students who successfully complete the Paramedic Program will be eligible to sit for the NREMT written and practical examinations at the paramedic level.
- Students who pass the NREMT written and practical examinations may apply to the Montana Board of Medical Examiners for paramedic licensure.

### 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
— EMS	150*	Transition to Advanced Care		2
— SP	120C	Interpersonal Relations/Communications		3
— or				
— SP	215	Negotiations/Conflict Resolution		3
— WRIT	101W*	College Writing I		3
<b>First Semester Total</b>				<b>18</b>

### Spring Semester

Course	#	Title		Credits
— EMS	155*	Paramedic Fundamentals		3
— EMS	156*	Paramedic Fundamentals Lab		1
— EMS	160*	EMS Case Studies		3
— EMS	165*	Medical Emergencies I		3
— EMS	166*	Medical Emergencies I Lab		1
— EMS	275*	Clinical I		5
<b>Second Semester Total</b>				<b>16</b>

### Second Year

Fall Semester				
Course	#	Title		Credits
— EMS	221*	Trauma		3
— EMS	222*	Trauma Lab		1
— EMS	250*	EMS Operations		3
— EMS	265*	Medical Emergencies II		2
— EMS	266*	Medical Emergencies II and EMS Operations Lab		1
— EMS	277*	Clinical II		6
<b>First Semester Total</b>				<b>16</b>

### Spring Semester

Course	#	Title		Credits
— CAPP	131*	Basic MS Office		2
— EMS	271*	NREMT Exam Preparation		2
— EMS	272*	NREMT Exam Preparation Lab		2
— EMS	279*	Clinical III: Field Experience		8
<b>Second Semester Total</b>				<b>14</b>

**Total Credits 64**

EMT-B/EMS 270\* is offered each fall and spring semester.

\*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, please contact the Campus Corps office at 756-3908.

### 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 "EMS" 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 EMS course, with the exception of EMS 270, 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 EMS core courses in the paramedic program.**
- 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 (EMS) course series.
- All students enrolled in EMS 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.

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.

(continued on next page)





### Additional Costs

- There are lab fees associated with the classes in this program. They are listed for each course in the semester schedule.
- EMS 150 \*and EMS 160\* are on-line courses and additional fees apply.
- EMS 155\*, EMS 165\*, EMS 221\*, EMS 265\* and EMS 271\* 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.

#### Advisor:

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



# ***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
<b>First Semester Total</b>		<b>14</b>

### **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
<b>Second Semester Total</b>		<b>14</b>

**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 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.

Advisor:

Brenda Rudolph  
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(406) 756-3858  
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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 237	Human Relations in Business	3
—	CAPP 154*	MS Word	3
—	WRIT 122C*	Introduction to Business Writing	3
		<b>First Semester Total</b>	<b>15</b>

### **Spring Semester**

—	Course #	Title	Credits
—	ACTG 122	Accounting and Business Decisions	2
—	ACTG 123*	Computerized Payroll Accounting	2
—	ACTG 124*	Payroll Accounting Applications	2
—	ACTG 202*	Principles of Managerial Accounting	4
—	ACTG 205*	Computerized Accounting	2
—	CAPP 156*	MS Excel	3
		<b>Second Semester Total</b>	<b>15</b>
		<b>Total Credits</b>	<b>30</b>

\*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.

Advisor:  
Ronnie Laudati  
BSS 127  
(406) 756-3990  
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**

<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
___	BIOH 104N	Basic Human Biology	3
___	BIOH 105L*	Basic Human Biology Laboratory	1
___	HLTH 200	Foundations of Physical Education	3
___	HLTH 201	First Aid	2
___	HLTH 203	Health for the Individual	3
___	SP 120C	Interpersonal Relations/ Communications	3
	<b>First Semester Total</b>		<b>15</b>

#### **Spring Semester**

<u>Course</u>	<u>#</u>	<u>Title</u>	<u>Credits</u>
___	HLTH 210*	Basic Exercise Prescription	3
___	HLTH 215*	Practical Fitness Assessment Techniques	3
___	M 090*	Introductory Algebra	4
___	NUTR 221N*	Basic Human Nutrition	3
___	PE 200	Functional Training	2
	<b>Second Semester Total</b>		<b>15</b>
	<b>Total Credits</b>		<b>30</b>

\*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.

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RH/SAT 108  
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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 <sup>1</sup>	3
BIOH 104N	Basic Human Biology <sup>1</sup>	3
BIOH 105L*	Basic Human Biology Laboratory <sup>1</sup>	1
PHAR 115*	Pharmacy Technician Practice and Calculations <sup>2</sup>	4
PHAR 198*	Internship: Hospital and Community Pharmacy Practice <sup>3</sup>	5
	<b>Total Credits</b>	<b>16</b>

<sup>1</sup>Course may be taken either as a prerequisite to or corequisite with PHAR 115\* and PHAR 198\*. Check course description.

<sup>2</sup>Course requires acceptance into the Pharmacy Technology Program.

<sup>3</sup>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.

Advisor:

Robin Graham, LRC 129  
(406) 756-3673, rgraham@fvcc.edu

OR

Contact the Learning Resource Center, LRC 129/130,  
(406) 756-3880.

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



## ***Physical Therapist Assistant*** ***Associate of Applied Science Degree***

Physical Therapist Assistants (PTA's) 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. PTA's 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

#### **Fall Semester**

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
WRIT 101W*	College Writing I	3
<b>First Semester Total</b>		<b>13</b>

#### **Spring Semester**

Course #	Title	Credits
AHPT 105	Introduction to Physical Therapist Assisting	3
BIOH 211NL*	Human Anatomy and Physiology II	4
PSYX 100A	Introduction to Psychology	4
SP 120C	Interpersonal Relations/Communications	3
<b>Second Semester Total</b>		<b>14</b>

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

### 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 <sup>1</sup>	3
AHPT 218*	Therapeutic Exercise for the PTA	2
<b>First Semester Total</b>		<b>19</b>

#### **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 <sup>1</sup>	3
<b>Second Semester Total</b>		<b>18</b>

#### **Summer Semester**

Course #	Title	Credits
AHPT 225*	Seminar and Project in Physical Therapist Assisting	3
AHPT 230*	Clinical Experience III <sup>2</sup>	5
<b>Third Semester Total</b>		<b>8</b>

#### **Total Credits**

72

<sup>1</sup>AHPT 210\* and AHPT 220\* includes a four-week rotation at an approved site.

<sup>2</sup>AHPT 230\* includes an eight-week rotation at an approved site.

### **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, please contact the Campus Corps office at 756-3908.

(continued on next page)



### Admission Guidelines

- Students must apply for select admission to the PTA program.
- Applications are available after March 1st and must be completed and returned by the last working day in April.
- 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 12 in an inpatient setting)
  - 5) 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

- FVCC is seeking accreditation by the Commission on Accreditation in Physical Therapy Education (1111 North Fairfax Street, Alexandria, VA 22314; phone; 703-706-3245; accreditation@apta.org). The program will submit an Application for Candidacy, which is the formal application required in the pre-accreditation stage. Submission of this document does not assure that the program will be granted Candidate for Accreditation status. Achievement of Candidate for Accreditation status is required prior to implementation of the professional/technical phase of the physical therapy program; therefore, no students may be enrolled in professional or technical courses until Candidate for Accreditation status has been achieved. Further, achievement of Candidate for Accreditation status does not assure that the program will be granted 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 web site.

### 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 statutes 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.

#### **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
<b>First Semester Total</b>			<b>14</b>

#### **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
<b>Second Semester Total</b>			<b>12</b>

#### **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
<b>First Semester Total</b>			<b>14</b>

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

#### **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
<b>Second Semester Total</b>			<b>12</b>

**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.

- 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 Campus Corps office at 756-3908.

#### **Program Approval**

- The practical nursing program is approved by the Montana State Board of Nursing.

#### **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, WRIT 101W\*;
- selective GPA of at least 2.75 (out of 4.0 scale) in **all** prerequisite courses; *(continued on next page)*





- 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/Vocational Nurses (NCLEX-PN).  
Graduates of United States' nursing programs must pass the national NCLEX exam in order to gain licensure to practice as a licensed practical nurse.

#### 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.

Nursing Program Director:

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Nursing Program Advisor:

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For general information, contact:

Cathy Fabel, Nursing Program Assistant  
RH/SAT 172  
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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 knowledge 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
	<b>Prerequisite Total</b>	<b>18</b>

### First Year

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
	<b>First Semester Total</b>	<b>13</b>

### 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
	<b>Second Semester Total</b>	<b>12</b>

### Summer Semester

Course #	Title	Credits
— AHXR 295*	Radiographic Clinical: III	8
	<b>Third Semester Total</b>	<b>8</b>

### Second Year

Course #	Title	Credits
— AHXR 210*	Radiographic Procedures III	2
— AHXR 225*	Radiobiology/Radiation Protection	2
— AHXR 295*	Radiographic Clinical: IV	8
	<b>First Semester Total</b>	<b>12</b>

### Spring Semester

Course #	Title	Credits
— AHXR 211*	Radiographic Procedures IV	2
— AHXR 270*	Radiographic Registry Review	2
— AHXR 295*	Radiographic Clinical: V	8
	<b>Second Semester Total</b>	<b>12</b>

**Total Credits** 75

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

Advisor:

Dr. Sue Justis, RH/SAT 109, (406) 756-3866, sjustis@

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

### 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 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 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, please contact the Campus Corps office at 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.

## ***Registered Nursing*** ***Associate of Science Degree***

The ASN 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 be able to:

- 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.

### First Year

#### Fall Semester

Course #	Title	Credits
NRSG 250*	LPN to RN Transition	3
<b>First Semester Total</b>		<b>3</b>

#### Spring Semester

Course #	Title	Credits
BIOM 250N*	Microbiology for Health Sciences and	3
BIOM 251L*	Microbiology for Health Sciences Lab	1
NRSG 252*	Complex Care Maternal/Child Client	3
NRSG 254*	Complex Care/Mental Health Client	2
NRSG 258N*	Principles of Pathophysiology	4
<b>First Semester Total</b>		<b>13</b>

#### 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
<b>Third Semester Total</b>		<b>12</b>

**Total Credits** **28**

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

### Program Information

- The focus of the Associate of Science in 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 a Associate of Science 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](http://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\*, M121M\*, NRSG 100, NUTR 221N\*, PSYX 100A, WRIT 101W\*

### Licensure

- Graduates of the program are eligible to apply for the NCLEX-RN licensure exam from the Montana State Board of Nursing. After passing the examination, the graduate becomes a Registered Nurse (RN).

### 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 texts. 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 chose to continue their education by pursuing a Bachelor's or Master's degree in nursing.

### Advisor:

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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 Resources 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
M 108*	Business Mathematics	4
or		
M 115M*	Probability and Linear Mathematics	3
or		
M 145Q*	Mathematics for the Liberal Arts	3
SP 120C	Interpersonal Relations/ Communications	
or		
SP 150CF	Video Communication	3
WRIT 122C*	Introduction to Business Writing	3
<b>First Semester Total</b>		<b>17-18</b>

#### **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, BUS, CAPP, CMPA, CSCI)	2
<b>Second Semester Total</b>		<b>18</b>

### **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
<b>First Semester Total</b>		<b>16-17</b>

#### **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
<b>Second Semester Total</b>		<b>15</b>

**Total Credits** **66-68**

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

### **Program Information**

- 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:  
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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.

				<b>First Year</b>	
—	Course #	Title	Credits		
—	BIOB 160NL	Principles of Living Systems	4		
—	PSYX 100A	Introduction to Psychology	4		
—	PSYX 150	Drugs and Society	3		
—	PSYX 242*	Fundamentals of Substance Abuse and Addiction	3		
—	SA 140	Cultural Issues in Addiction Recovery	1		
—	SP 120C	Interpersonal Relations/Communications	3		
—	WRIT 101W*	College Writing I	3		
—	—	Fine Arts (F) Requirement	3		
—	—	Humanities (H) Requirement <sup>1</sup>	3		
—	—	Mathematics (M) Requirement	3		
—	—	Social Sciences (B) Requirement <sup>2</sup>	3		
				<b>First Year Total</b>	<b>34</b>

				<b>Second Year</b>	
—	Course #	Title	Credits		
—	HS 210*	Case Management	2		
—	HS 250*	Interviewing/Crisis Intervention	4		
—	HS 279*	Legal/Ethical/Professional Issues	3		
—	PSYX 240A*	Fundamentals of Abnormal Psychology	3		
—	PSYX 243*	Substance Abuse Counseling II	3		
—	PSYX 250NA*	Fundamentals of Biological Psychology	3		
—	PSYX 264*	Fundamentals of Group Dynamics	3		
—	SA 221*	Assessment and Evaluation Procedures of Substance Abuse	2		
—	SOCI 236GA	Introduction to Race and Ethnic Relations	3		
—	—	Humanities (H) or Fine Arts (F) Requirement <sup>1</sup>	3		
				<b>Second Year Total</b>	<b>29</b>

**Total Credits** **63**

<sup>1</sup> Recommend PHL 110H and SPNS 101GH for a total of 8 credits.

<sup>2</sup> Recommend ECNS 101B or PSCI 210B.

Recommended electives as course loads and time permit:

—	Course #	Title	Credits
—	PSYX 211	Personality and Adjustment	3
—	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

\*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***

(Also offered at Lincoln County Campus)

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
<b>First Semester Total</b>		<b>19</b>

#### **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
<b>Second Semester Total</b>		<b>16-17</b>

### **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
<b>First Semester Total</b>		<b>17</b>

#### **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
IDS 135C	Thinking: How to Problem Solve	
or		
SP 215	Negotiations/Conflict Resolution	3
ITS 221*	Project Management	3
<b>Second Semester Total</b>		<b>15</b>
<b>Total Credits</b>		<b>67-68</b>

#### **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.
- 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.
- Students complete an internship to gain real world experience. Discuss this with your advisor and the internship coordinator the prior semester.

#### **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:**

**Kalispell**  
Brenda Rudolph  
BSS 106  
(406) 756-3858  
brudolph@fvcc.edu

**Libby**  
Chad Shilling  
Room #105  
(406) 293-2721, ext.233  
cshillin@fvcc.edu

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

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

## ***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 tech 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.

Note: Pre-surgical technology courses may be attempted a maximum of two times.

#### **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	2
PSYX 100A	Introduction to Psychology	4
SP 120C	Interpersonal Relations/Communications	3
WRIT 101W*	College Writing I	3
<b>Semester Total</b>		<b>22</b>

#### **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 250N*	Microbiology for Health Sciences	3
BIOM 251L*	Microbiology for Health Sciences Lab	1
<b>Semester Total</b>		<b>17</b>

##### **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
<b>Semester Total</b>		<b>17</b>

##### **Spring Semester**

Course #	Title	Credits
AHST 207*	Professional Development and Leadership	3
AHST 255*	Advanced Surgical Clinical	10
<b>Semester Total</b>		<b>13</b>

**Total Credits** 69

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

*(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 applications will not be accepted.**
- 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, please contact the Campus Corps office at 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 accredited programs 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.

Please be advised that 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.

### **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.

Advisor:  
Erin Howardson, CST  
Program Director  
KRMC  
(406) 751-6994  
ehowardson@fvcc.edu

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 108*	Short Courses: MS Windows <sup>1</sup>	1
M 095*	Intermediate Algebra	4
M 123*	Surveying Mathematics I <sup>2</sup>	2
SRVY 152	Surveying Graphics	2
SRVY 241*	Introduction to Surveying for Land Surveyors I	5
WRIT 101W*	College Writing I	3
<b>First Semester Total</b>		<b>17</b>

#### Spring Semester

Course #	Title	Credits
M 124*	Surveying Mathematics II <sup>2</sup>	3
SP 110C	Public Speaking	3
SRVY 242*	Introduction to Surveying for Land Surveyors II	5
SRVY 255*	Surveying Calculations	3
SRVY 262*	Public Land Survey System	3
<b>Second Semester Total</b>		<b>17</b>

### Second Year

#### Fall Semester

Course #	Title	Credits
NSCI 103NL*	Basic Physical Science <sup>3</sup>	4
SRVY 246*	Introduction to GPS for Surveyors	2
SRVY 268*	CAD for Surveying Profession	4
SRVY 270*	Legal Principles in Surveying I	5
SRVY 275*	Analytic Photogrammetry and Remote Sensing	3
<b>First Semester Total</b>		<b>18</b>

#### Spring Semester

Course #	Title	Credits
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 280*	Land Surveying Computers	2
SRVY 283*	GIS for Survey Analysis	4
<b>Second Semester Total</b>		<b>16</b>

**Total Credits** 68

<sup>1</sup> Another CAPP, CMPA or CSCI course may be substituted with advisor approval.

<sup>2</sup> Another math sequence which includes coursework through

Calculus may be substituted.

<sup>3</sup> Another 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
M 090*	Introductory Algebra	4
SP 110C	Public Speaking	3
SRVY 152	Surveying Graphics	2
WRIT 095*	Developmental Writing	
or		
WRIT 101W*	College Writing I	3
<b>First Semester Total</b>		<b>13</b>

##### Spring Semester

Course #	Title	Credits
CAPP 108*	Short Courses: MS Windows	1
M 095*	Intermediate Algebra	4
WRIT 101W*	College Writing I	3
— — — —	Electives (CAPP, CASC, CMPA, CSCI, IT)	4-10
<b>Second Semester Total</b>		<b>12-18</b>

### 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:

Dave Dorsett, PLS, RH/SAT 164, (406) 756-3913  
ddorsett@fvcc.edu

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

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

## ***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
— BUS 121*	Math and Communications for the Trades	5
	<b>Total Credits</b>	<b>30</b>

#### **Additional professional development program offering:**

— ARTJ 260*	Stone Setting I	3
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\*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.

Advisor:  
Carole Bergin  
AT 229  
(406) 756-3902  
cbergin@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

<u>Fall Semester</u>			
Course #	Title		Credits
___ CAPP 106*	Short Courses: Computer Applications	1	
___ M 111*	Technical Mathematics	3	
___ WLD 100	Introduction to Welding Fundamentals	3	
___ WLD 125	Blueprint Reading for Welders	3	
___ WLDG 110*	Welding Theory I	4	
___ WRIT 122C*	Introduction to Business Writing	3	
<b>First Semester Total</b>			<b>17</b>

<u>Spring Semester</u>			
Course #	Title		Credits
___ HLTH 202	Health and Behavioral Emergencies in the Workplace	1	
___ IT 175*	Introduction to AutoCAD	3	
___ NTDE 110*	Introduction to Nondestructive Testing	3	
___ SP 110C	Public Speaking		
or			
___ SP 120C	Interpersonal Relations/Communications	3	
___ WLDG 114*	Mig/Tig Welding	4	
___ WLDG 185*	Welding Qualification Test Preparation	2	
<b>Second Semester Total</b>			<b>16</b>

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

### Second Year

<u>Fall Semester</u>			
Course #	Title		Credits
___ NDTE 111*	Liquid Penetrate 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	
<b>First Semester Total</b>			<b>17</b>

<u>Spring Semester</u>			
Course #	Title		Credits
___ NDTE 120	Radiographic Testing/Film Interpretation	5	
___ NDTE 125*	AWS D1.1 Code Book	2	
___ WLD 135*	Advanced GMAW/GTAW Welding and Certification	4	
___ WLDG 280*	Weld Testing Certification	4	
<b>Second Semester Total</b>			<b>15</b>

**Total Credits** **65**

### Additional Professional Development Program Offerings

Course #	Title	Credits
___ IT 177	Introduction to MASTERCAM: Mill	3
___ IT 179*	Introduction to SOLIDWORKS Programming	2

### Certifications:

- AWS D 1.1 in 3/8" Plate Certification
- AWS D in Unlimited Thickness Certification
- D 1.S Bridge and Pipe Certification
- ASNT Level I 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  
OT 107  
(406) 756-3996  
rhill@fvcc.edu

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
194, 294	Seminar/Workshop
195, 295	Fieldwork/Clinical/Practicum/Student Teaching
197, 297	Educational Methods Courses
198, 298	Internship/Externship/Cooperative Education

- **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 to major 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, shrinking metal, preparing surfaces for body fillers, application of body fillers, sanding, shaping and feather-edging 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, drivetrain/powertrain systems, brake systems, steering systems, suspension systems, air conditioning systems and emission 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 refinishing of doors, fender panels, cowlings, hoods, trunks, and undercarriage components. (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 and plastic parts refinishing. (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, paint/material thickness and measurement, spray gun maintenance, types of spray coats, 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 120 Structural Repairs I 3 credits**

This course encompasses measurement and damage assessment determination and the types of measuring technology applied in the auto collision industry. Assessing vehicle damage: damage diagnosis, analysis of collision forces, types of frame damage, unibody vehicle damage, dimensional references, measurement basics, types of measurement equipment, gauge measuring systems, mechanical measuring systems, electronic measuring systems, laser measuring systems and ultrasound measuring systems. Conventional and Unibody Vehicle Straightening: alignment basics, types of straightening equipment, planning and measuring as you pull, straightening safety, vehicle anchoring procedures, executing a planned straightening sequence, over pulling dangers, aligning frontend damage, rear damage repairs, straightening side collision damage, straightening sag and diamond damage, stress relieving and final alignment checks. (Spring Semester)

**ABODY 160 Industry Leadership and  
Special Shop Practices 3 credits**

This course encompasses the demand for highly trained collision repair technicians, and responsibilities for technicians to maintain high industry standards. Knowledge in repair estimating, various labor costs, material costs, material inventory, ordering of replacement parts and customer service. An affiliation with college SkillsUSA Chapter is highly encouraged. (Spring 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    2 credits**

*Prerequisite:* ACTG 180.

*Corequisite:* ACTG 123.

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 manual computations of wages; calculating social security, income and unemployment taxes; preparing appropriate payroll tax forms; 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. 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 chart of accounts conversion, 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 213 Income Tax Fundamentals II 4 credits**

*Prerequisite:* ACTG 201.

A course designed to introduce the basic principles of state taxation for the sole proprietor, partnership or corporation, as well as trust and estate tax. (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)

**AUTOMOTIVE/DIESEL (AD)****AD 110 Introduction to Small Engines (Power Equipment) 4 credits**

This course teaches students how to identify, repair, re-build, and/or replace small engines used in outdoor power equipment. Students will learn two stroke and four stroke combustion engine theory, as well as engine performance criteria. They will gain understanding in the operation and basic principles of the various components in addition to hands on experience using hand and power tools in performing repairs and maintenance on outdoor power equipment. Instruction will utilize group and individual class projects including a variety of training aids, components, and live student project work. (Intermittently)

**AD 200 Introduction to Engines Gas/Diesel 4 credits**

An overview of the design, operation, diagnosis and service procedures of automotive/commercial engines. Students participate in the disassembly and reassembly of gas and diesel units. Service and technical data are presented to prepare the student for practical experience in engine servicing. (Intermittently)

**AD 210 Diesel Technology 4 credits**

Construction, operation and repair of diesel engines; logical steps of procedures for engine reconditioning; installing and timing of fuel injector components. Emphasis will be placed on engine component reconditioning, engine tune ups, and use of special diagnostic tools. (Intermittently)

**AD 220 Auto/Diesel Electronic Systems 4 credits**

A study of electrical/electronic fundamentals applied to automotive and commercial vehicle systems. Includes theory, design, diagnosis, and repair of wiring and circuits, batteries, alternators, and starters. The use of test instruments and electrical troubleshooting procedures currently recommended by industry standards will be emphasized. (Intermittently)

**AD 230 Hydraulics and Pneumatics 4 credits**

Theory and application of hydraulics and pneumatics used in automotive and heavy equipment industries. Students will demonstrate hydraulic principles at live work stations through diagnosis, disassembly and reassembly of sub component systems. This will include an open and closed center system, fixed and variable displacement pumps, linear and rotary actuators, pressure and flow controls, and directional valves. (Intermittently)

**AD 275 Cooperative Education 6 credits**

*Prerequisites:* AD 200, AD 210, AD 220, AD 230.

This hands on work experience will provide local employers the opportunity to participate in the educational process. Further, it will allow students the opportunity to validate cognitive skills learned in an academic environment within a modern workplace. As a planned and supervised work learning experience, it extends the students academic background into the Heavy Equipment Maintenance Industry. When possible, this course will be coordinated as a paid work experience for the student. (Intermittently)



**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 EHRR 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 - 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 HLTH 201.*

A course designed to allow the student to advance the knowledge and skills required for completing the Medical Assistant AAS degree. The student is trained in performance of laboratory tests, basic pharmacology, administration of medications and phlebotomy. Throughout the course, an emphasis on medical ethics, confidentiality, professionalism and job readiness will be covered in order to progress to AHMA 298. (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.

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. 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.

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 unit is designed to build an effective medical vocabulary which will significantly enhance your 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 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 120, AHMS 144, AHMS 210, AHMS 252, BIOH 104, BIOH 105, BIOL 170, CAPP 106, 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, xray, 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 procedure 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 215 E-Scripton 2 credits**

This course will provide students with the skills to voice input data into the computer and be able to edit content as necessary. Students will be using voice software and training the software to their own voice. Students will also be able to drag and drop others' voice input data for editing into a finalized medical document. (Intermittently)

**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 ICD9, 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. (Intermittently)

**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 PTA 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 PTA curriculum. The course will aid the student in preparing and practicing for their PTA 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.

**ALLIED HEALTH - SURGICAL TECHNOLOGY (AHST)****AHST 101 Introduction to Surgical Technology 4 credits**

*Prerequisite:* admission into the Surgical Technology program.  
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, 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 observation. (Fall Semester)

**AHXR 108N Introduction to Radiographic 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 6 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 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. (Spring Semester)

**AHXR 272 MRI Procedure and Practice 1 credit**

*Prerequisite:* The student must be a radiologic technologist with ARRT certification or a student in the last semester of their Radiology program.

This course presents the physics of magnetization, image production, image weighting, pulse sequences, scanning procedures and the role of the technologist. (Intermittently)



**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 295 - Radiographic Clinical 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)

**ANTHROPOLOGY (ANTH)****ANTH 210NL 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)

**ANTH 211NL Forensic Science II 4 credits**

*Prerequisite:* ANTH 210/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)

**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 103F see PHOT 113F  
 ART 106F see PHOT 116F  
 ART 154F see PHOT 154F  
 ART 156 see PHOT 156  
 ART 158F see FILM 111F  
 ART 160 see PHOT 160  
 ART 204F see PHOT 255F  
 ART 206F see PHOT 213F  
 ART 254F see PHOT 254F

**ART 144 Design for Graphic Communications 3 credits**

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 class 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)

**ART 148 Digital Illustration I 3 credits**

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)

**ART 149 Digital Publishing 3 credits**

Students will prepare professional layouts ready for print by exploring topics such as page layout, electronic composition and 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)

**ART 153 Digital Imaging I 3 credits**

*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)

**ART 247 Digital Portfolio Preparation 4 credits**

*Prerequisite: ART 144.*  
 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)

**ART 248 Digital Illustration II 3 credits**

*Prerequisite: ART 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)

**ART 249 Digital Imaging II 3 credits**

*Prerequisite: ART 153.*  
 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)

**ART 253 Advanced Digital Imagery 3 credits**

*Prerequisites: ART 153, working knowledge of computers and graphic applications.*  
 This course will cover wider application and use of photo enhancement software/hardware. This course places a heavy emphasis on technology. (Intermittently)

**ART 267 3D Animation and Modeling 4 credits**

*Prerequisite: ART 153.*  
 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)

**ART 268 3D Animation and Modeling II 4 credits**

*Prerequisite: ART 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)

**ART 274 Portfolio Presentation 1 credit**

*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)

**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 228FGH 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 229FGH 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)

**THE ART OF JEWELRY MAKING (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. Fall and Spring Semesters)

**ARTJ 101 Introduction to Jewelry II 1 credit**

*Prerequisite: ARTJ 100.*

A continuation of ARTJ 100. (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 holloware and 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 and Summer Semesters)

**ARTJ 221 Forging and Smithing II 3 credits**

*Prerequisites:* ARTJ 210, ARTJ 220.

Second in the series on hammer and anvil based techniques that take advantage of the plastic qualities of metal. This course takes the student further in developing a working knowledge of the principles and techniques of holloware and hammer formed jewelry items utilizing non-ferrous metals such as copper, brass, silver, and gold. (Fall and Summer Semesters)

**ARTJ 223 Forging and Smithing III 3 credits**

*Prerequisites:* ARTJ 220, ARTJ 221.

A course designed to explore the use of the hydraulic press in jewelry and vessel construction. Emphasis will be on die making involved in the processes. (Fall and Summer Semesters)

**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-prototyping 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 marquise head setting. (Intermittently)

**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. (Intermittently)

**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)

**VISUAL AND STUDIO 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 draftsman 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-2D 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-3D 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 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: IT 175, 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: IT 175, 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 (AVFT)**

*AVIA 150 see AVFT 131*

*AVIA 151 see AVFT 132*

*AVIA 152 see AVFT 133*

*AVIA 240 see AVFT 254*

*AVIA 241 see AVFT 255*

*AVIA 242 see AVFT 256*

**AVFT 131 Private Pilot Ground School 3 credits**

*Formerly AVIA 150 Private Pilot Ground School*

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). Textbooks for this course are also the textbooks for AVFT 132 and AVFT 133. A minimum enrollment of five students is required for this course to be offered. (Intermittently)

**AVFT 132 Private Pilot Flight Training (Fixed Wing) 3 credits**  
*Formerly AVIA 151 Private Pilot Flight Training (Fixed Wing)*

*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. Flight training is conducted at Red Eagle Aviation at Kalispell City Airport on a schedule arranged with individual students. (Intermittently)

**AVFT 133 Private Pilot Flight Training (Rotary Wing) 3 credits**  
*Formerly AVIA 152 Private Pilot Flight Training (Rotary Wing)*

*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. Flight training is conducted at Red Eagle Aviation at Kalispell City airport on a schedule arranged with individual students. (Intermittently)

**AVFT 254 Instrument Pilot 5 credits**  
*Formerly AVIA 240 Instrument Pilot*

*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. Course content includes a detailed study of pertinent FAA regulations, procedures, and publications necessary for operating an 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. Aircraft rental, flight instruction, written examination, and flight test are included. (Intermittently)

**AVFT 255 Commercial Pilot 3 credits**  
*Formerly AVIA 241 Commercial Pilot*

*Prerequisites: private pilot 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. Course content includes a detailed study of pertinent FAA regulations, procedures, and publications necessary for operating an 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. Aircraft rental, flight instruction, written examination, and flight test are included. (Intermittently)

**AVFT 256 Professional Pilot 6 credits**  
*Formerly AVIA 242 Professional Pilot*

*Prerequisites: FAA private pilot license and instructor's consent.*

This course serves as a preparation for the Federal Aviation Administration (FAA) Instrument Pilot and 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 and under instrument flight rules (IFR) in the U.S. national airspace system. To successfully complete this course, the student must pass the FAA written examinations and flight tests for both the FAA Instrument Pilot rating and the Commercial Pilot license. Aircraft rental, flight instruction, written examinations, and flight tests are included. (Intermittently)

## BUSINESS ADMINISTRATION (BADM)

*BADM 140 see BMKT 225*

*BADM 175 see BMGT 235*

*BADM 176 see BMGT 237*

*BADM 225 see BMGT 282*

*BADM 250 see BGEN 280*

*BADM 275 see BGEN 298*

*BADM 277 see BMKT 244*

**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)

## BANKING (BANK)

**BANK 120 Teller Training 3 credits**

This course can prepare the student for an immediate position as a bank teller and provide the foundation for a long-term career in banking. Learn banking procedures and terminology, customer service skills, communications, fraud prevention, current banking regulations, and how to balance daily transactions. Training in resume preparation and interviewing techniques will assist in the job search. (Intermittently)



**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: CHMY 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 Summer 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. (Spring and Summer 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. (Spring and Summer 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**  
*Formerly BUS 132 Leadership*

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 235 Business Law 4 credits**  
*Formerly BUS 271 Business Law*

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**  
*Formerly BADM 250 Business Planning**Prerequisite: BMKT 225, BMGT 235 or BMGT 210.**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**  
Formerly BADM 275 Business Internship

*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**  
Formerly BUS 270 Business Simulation

*Prerequisites: ACTG 201, ACTG 202, BMIS 211, BMKT 225, BMGT 235 (or ability to work in Microsoft Office/Windows), ECNS 201 or ECNS 202, M095, 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 BIOLOGY (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: BIOB 160.*

*Corequisite: BIOB 260.*

This course is an introduction to the methods used in biotechnology, including recombinant DNA, protein purification, cell culture and immunological methods. Laboratory included. (Spring Semester)

**BIOB 110 Plant Science 3 credits**

This course provides an understanding of basic plant science principles and environmental components that impact humankind and develop solutions to problems. Real-life case histories will be emphasized with a career goal emphasis on science, resources, the environment and the transfer of technologies. (Spring Semester)

**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 256NL Intro Biol: Cells to Organisms 4 credits**

*Prerequisites or corequisites: M 162 or STAT 216, CHMY 141 or higher 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: M 162 or STAT 216, BIOB 160 or higher 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: BIOB 160 or equivalent.*

*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 Lab 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 BIOLOGY (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 160, 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 117 Biology of Special Areas .5 credit**

Studies of the native flora and fauna of Montana as it appears in various habitats. The identification of plants and animals and consideration of their environment. Field work may include moderate hiking. This course may be repeated for a total of two credits to emphasize different types of areas, i.e. prairie, high altitude environments, etc. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

**BIOL 134 Survey of Medical Terminology 1 credit**

An introduction to the principles of medical terminology and a survey of the terminology associated with a limited number of systems. This course is especially useful for individuals working in a health care related profession who need a basic working knowledge of medical terminology. (Intermittently)

**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)

**BIOL 233 Rangeland Management 3 credits**

A study of the ecological interaction of climate, soils, vegetation and animal use of grassland and forested rangeland. Laboratory emphasis is given to identification of the major native grassland plants and to determining rangeland condition. (Intermittently)

**BIOLOGY - MICROBIOLOGY (BIOM)**

**BIOM 250N Microbiology for  
Health Sciences 3 credits**

*Prerequisite: BIOB 160 or equivalent or instructor's consent.* Introduction to the causative agents, epidemiology, prevention and treatment of infectious diseases. (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 the methods used in biotechnology, including recombinant DNA, protein purification, cell culture, and immunological methods. Laboratory included. (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. (Intermittently)

**BIOLOGY - ORGANISMAL BIOLOGY (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**  
*Formerly SBM 150 Entrepreneurship*

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 235 Management 3 credits**  
Formerly BADM 175 Principles of Management

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**  
Formerly BADM 176 Human Relations in Business

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 240 Business Research Methods 3 credits**  
Formerly BUS 273 Quantitative Business Applications

*Prerequisite: BMIS 211, STAT 216 or instructor's consent.*  
This course will introduce students to available management tools that reduce uncertainty. This course will teach students to apply quantitative methods to business problems using the triad of statistical techniques, the resources on the internet, and the spreadsheet. The quantitative methods include descriptive and univariate statistics, bivariate and multivariate analyses. (Intermittently)

**BMGT 245 Customer Service Management 3 credits**  
Formerly BUS 240 Customer Service Management

*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 282 Organizational Training and Development 3 credits**  
Formerly BADM 225 Training and Development

Ideal for students currently working in training and development or just entering the field. This course introduces students to the full scope of training and development for businesses and organizations. The course begins with an overview of adult learning principles, training needs analysis, and methods for matching learning styles with appropriate training techniques. The second half of the semester addresses course environment design, training delivery, evaluation and assessment of training transfer. Current trends in training and development will be incorporated throughout the course. (Fall and Spring Semesters)

**BUSINESS MANAGEMENT INFORMATION SYSTEMS (BMIS)**

**BMIS 211 Introduction to Business Decision Support 4 credits**  
Formerly CMPA 131 Business Software

*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 220 Introduction to E-Commerce 3 credits**  
Formerly BUS 220 E-Commerce

*Prerequisites: BMKT 225, CMPA 270.*  
The purpose of this course is to describe what electronic commerce is; how it is being conducted and managed; and its major opportunities, issues, and risks. Topics covered will include the technological infrastructure behind e-commerce, business strategies for establishing a presence, managing business-to-business and business-to-customer sites, security threats, and some of the legal, ethical, and tax issues associated with conducting e-commerce. (Intermittently)

**BMIS 270 MIS Foundations for Business 3 credits**  
Formerly BUS 275 Fundamentals of Management Information Systems

*Prerequisites: BMIS 211.*  
This course provides the student with a general knowledge of information systems. Subjects covered include data structures, data bases, decision support systems and system analysis. (Intermittently)

**BMIS 298 Internship 3 credits**  
Formerly BUS 276 Management Information Systems Internship

*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.

**BUSINESS MARKETING (BKMT)**

**BKMT 130 Search Engine Marketing 3 credits**  
Formerly SBM 140 Search Engine Marketing

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**  
*Formerly BADM 140 Principles of Marketing*

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**  
*Formerly BADM Principles of Retailing*

*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)

**BUSINESS (BUS)**

*BUS 132 see BGEN 110  
BUS 220 see BMIS 220  
BUS 240 see BMGT 245  
BUS 270 see BGEN 299  
BUS 271 see BGEN 235  
BUS 273 see BMGT 240  
BUS 275 see BMIS 270  
BUS 276 see BMIS 298*

**BUS 121 Math and Communications for the Trades 5 credits**

*Prerequisites: TASK 110, TASK 111 are recommended; appropriate placement test score or instructor's consent.*

This course introduces students to business/trades math concepts by employing real-work problems throughout the course. Emphasis is on calculations involved in business operations, decision making for business, and measurements associated with developing a cost and profit analysis for various projects. The calculations are incorporated into the development and presentation of technical writing documents and an oral presentation of a business proposal. (Fall and Spring Semesters)

**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 wants 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.*

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 contact, 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, CAPP 108 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 presentation from both overhead and video sources. (Intermittently)

**CAPP 114 Short Courses: MS Word 1 credit**

*Prerequisite: CAPP 108.*

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. (Intermittently)

**CAPP 116 Short Courses: MS Excel 1 credit**

*Prerequisite: CAPP 106, CAPP 108 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. (Intermittently)

**CAPP 118 Short Courses: MS Access 1 credit**

*Prerequisite: CAPP 106, CAPP 108 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.*

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 138 Basic MS Access 4 credits**

*Prerequisite: CAPP 106 or instructor's consent.*

This course takes a comprehensive look at microcomputer database processing software and database development. Topics include designing, creating and modifying multi-table databases, creation of forms/subforms/reports/subreports, various kinds of queries, switchboards, macros, and an introduction to Visual Basic for Application. (Intermittently)

**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)

**COMPUTER APPLICATIONS SHORT COURSES (CASC)****CASC 119 Fundamentals of Flash 1 credit**

This course is intended to develop the basic skills necessary to create Flash movies for display on the Web. The students will gain an overview of the Macromedia FlashMX software and learn to create vector objects using the Flash drawing tools. The students will also explore fast-loading animation techniques using motion tweening and simple ActionScript methods. Special features such as adding a preloader animation, sounds, and interactivity to movies will also be covered. (Fall Semester)

**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 the four principal areas of language acquisition; speaking, listening, reading, and writing. (Intermittently)

**CHEMISTRY (CHMY)****CHMY 104 Preparation for Chemistry 4 credits**

*Corequisite:* M 090 or appropriate placement test score.

This course is designed for students who feel they are not ready for CHMY 121. Topics include scientific method in action, physical and chemical changes and reactions; atoms and the periodic table; dimensional analysis and units of measure; uncertainty and error propagation; states of matter and mixtures; chemical bonding, formulas and equations; acid and base strength via pH; basic laboratory techniques. (All Semesters)

**CHMY 121NL Introduction to General Chemistry 4 credits**

*Corequisite:* M 095 or appropriate placement test score.

This is an introductory general chemistry course. The course includes 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:* CHMY 121 or one year high school chemistry.

*Corequisite:* M 121 or equivalent.

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:* ANTH 210/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)

**CRIMINAL JUSTICE (CJ)**

CJ 100 see CJLE 200      CJ 231 see CJUS 231  
CJ 220 see CJUS 220      CJ 271 see CJUS 271  
CJ 225 see CJUS 200      CJ 275 see CJUS 298  
CJ 230 see CJUS 230



**CRIMINAL JUSTICE (CJUS)**

**CJUS 121A Introduction to Criminal Justice** 3 credits  
Formerly SOC1 121A Introduction to Criminal Justice

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  
Formerly CJ 225 Criminal Law

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  
Formerly CJ 220 Corrections

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  
Formerly CJ 230 Police Organization and Behavior

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  
Formerly CJ 231 Criminal Procedure

*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 procedure are reviewed. (Fall Semester)

**CJUS 271 Introduction to Judicial Function** 1 credit  
Formerly CJ 271 Seminar (Courts)

*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  
Formerly CJ 275 Criminal Justice Internship

*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)

**CRIMINAL JUSTICE: LAW ENFORCEMENT**

**CJLE 200 Reserve Officer Training** 5 credits  
Formerly CJ 100 Reserve and Auxiliary Officers Training Program

*Prerequisite: instructor's consent.*

This course covers 90 hours of time, approximately 60 hours lecture and 30 hours lab. Topics covered include Policy Ethics and Professionalism, Criminal Law, Evidence and Laws of Arrest, Communications and Report Writing. There are also aspects of the course which will take place partially via the lab. These include Patrolling, Defensive Tactics and Crowd Control Tactics and Firearms training. This course is not a substitute for the Montana Police Academy, but rather to give Reserve Officers a minimum amount of information necessary to function as Reserve Officers. (Intermittently)

**COMPUTER APPLICATIONS (CMPA)**

*CMPA 131 see BMIS 211*

**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 275T.*

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)

**CMPA 276 Network Design 4 credits**

*Prerequisite: ITS 258.*

This course is a project-based course in network design. Topics include advanced network design projects and advanced network management projects. (Intermittently)

**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 (CSCI)**

**CSCI 104 Programming with Alice 1 credit**

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, function, 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 queues, stacks, trees and graphs. Application of these structures to problem-solving and consideration of trade-offs incurred in choice of implementation. (Fall Semester)

**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 (CSTN)****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 tools safety, bench wood work, 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 case 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. During this course 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 198 Internship: Cabinet and Furniture 6 credits**

*Prerequisites: CSTN 127 and IT 175.*

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. (Spring Semester)

**CSTN 218 Advanced CNC Woods Manufacturing 6 credits**

*Prerequisites: IT 175 and/or IT 179.*

*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 140-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: admission into CULA program.*

*Corequisites: CULA 105, CULA 148, CULA 298, ID 101.*

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, and proper storage; knife skills; basic garnishing and food presentation; use and care of equipment and appliances; kitchen structure and organization; culinary history and terminology; simple recipe and menu development; costing; and seasoning, flavoring and palate development. (Fall Semester)

**CULA 104 Professional Chef II 12 credits**

*Prerequisite: instructor's consent.*

*Corequisites: CULA 250, CULA 298.*

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 the production and presentation of full plates and concentration on development of flavor. Topics consist of: basic garde manger; introduction to fish, shellfish, meats and poultry; fabrication; and cooking, pie and fillings; pastries; custards and creams. (Spring Semester)

**CULA 105 Food Service Sanitation 2 credits**

*Corequisites: CULA 103.*

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**

A comprehensive review of food and beverage service in various outlets. This course will address the principles and procedures of operating successfully in 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. (Fall Semester)

**CULA 201 Professional Chef III 12 credits**

*Prerequisite: instructor's consent.*

*Corequisites: CULA 210, CULA 220, CULA 240, CULA 248, ID 120.* Part III in the Professional Culinary Arts series. This course integrates the fundamental skills of culinary and baking learned in the first year with more advanced techniques. Speed in production, teamwork, presentation/plating, and development of flavor continue to be emphasized and expanded on. Topics to be addressed include: meat fabrication and cookery; advanced garde manger (hot and cold hor d'oeuvres, galantine, ballotine, chaud-froid, pate, terrine, sausages, savory mousse, and cheese/fruit carving; advanced custard and creams; frozen desserts; fruit desserts and garnishes; and basic cakes and icings. (Summer Semester)

**CULA 210 Nutritional Cooking 2 credits**

*Prerequisites: a grade of "C-" or better in CULA 103 and CULA 104.*

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**

*Prerequisites: CULA 105, CULA 148, CULA 250, M065, WRIT 122.*

*Corequisites: CULA 210, CULA 240, CULA 248, ID 120.*

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**

*Prerequisites: CULA 148, CULA 250, WRIT 122.*

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: CULA 148.*

*Corequisites: CULA 210, CULA 220, CULA 240, ID 120.*

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: CULA 148.*

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 3 credits**

*Prerequisite: instructor's consent.*

*Corequisites: CULA 103, CULA 105, CULA 148 and ID 101 or CULA 104 and CULA 250.*

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 3 credits**

*Prerequisite: instructor's consent.*

*Corequisites: CULA 201 or CULA 210, CULA 220, CULA 240, CULA 248 and ID 102.*

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)

**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. (Spring 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)

**ECNS 250 The Montana Economy 3 credits**

A study of the microeconomic and macroeconomic fundamentals of the Montana economy, including workforce, industry clusters, technology, transportation, business climate and economic development policy. Differing perspectives on the future of the local economy are discussed as well. (Fall Semester)

**EARLY CHILDHOOD EDUCATION (EDEC)**

<i>ECE 101 see EDEC 108</i>	<i>ECE 231 see EDEC 281</i>
<i>ECE 102 see EDEC 245</i>	<i>ECE 235 see EDEC 235</i>
<i>ECE 127 see EDEC 130</i>	<i>ECE 241 see EDEC 260</i>
<i>ECE 128 see EDEC 210</i>	<i>ECE 247 see EDEC 230</i>
<i>ECE 130 see EDEC 135</i>	<i>ECE 252 see EDEC 252</i>
<i>ECE 150 see EDEC 249</i>	<i>ECE 253 see EDEC 250</i>
	<i>ECE 257 see EDEC 295</i>
	<i>ECE 258 see EDEC 295</i>

**EDEC 108 Introduction to Early Childhood Education 3 credits**  
*Formerly ECE 101 Introduction to Early Childhood Education*

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**  
*Formerly ECE 127 Health, Safety and Nutrition in Early Childhood*

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  
*Formerly ECE 130 Language and Literature for Young Children*

*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  
*Formerly ECE 128 Child, Family and Community Relations*

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  
*Formerly ECE 247 Guidance of Young Children*

*Prerequisite: EDEC 108, EDEC 245 or instructor's consent.*  
 This course will focus on understanding children's behavior and to develop effective guidance techniques. Emphasis on how parents and teachers can promote the child's self-control, self-esteem and competence. (Fall Semester)

**EDEC 235 Creative Art for the Developing Child** 2 credits  
*Formerly ECE 235 Creative Art for the Developing Child*

*Prerequisite: EDEC 108, EDEC 245, EDEC 281 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  
*Formerly ECE 102 Early Childhood Developmental Themes*

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  
*Formerly ECE 150 Infant and Toddler Development and Program Planning*

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  
*Formerly ECE 253 Math and Science for Early Childhood*

*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  
*Formerly ECE 252 Music and Movement for Young Children*

*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  
*Formerly ECE 241 Administration of Early Childhood Programs*

*Prerequisite: EDEC 108, EDEC 230, EDEC 245, EDEC 295 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  
*Formerly ECE 231 Curriculum Development for Young Children*

*Prerequisite: EDEC 108, EDEC 245 or instructor's consent.*  
 This course will provide students with the 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, as well as understanding the relationship between on-going assessments and curriculum planning. (Spring Semester)

**EDEC 295 Early Childhood Fieldwork/  
Practicum I 3 credits**  
*Formerly ECE 257 Field Practicum I*

*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**  
*Formerly ECE 258 Field Practicum II*

*Prerequisite: EDEC 108, EDEC 230, EDEC 245, EDEC 281, EDEC 295 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)

## 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)

**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 244 The Middle School:  
An Introduction 2 credits**

It is clear that the middle school is no longer simply a phenomenon and that it has moved into the organizational mainstream. This course will develop, in the potential teacher, an understanding of the middle school student, the rationale, origins, advantages, functions and tasks of the middle school classroom. It will also stress program concepts, organizational patterns, and instructional strategies. (Intermittently)

**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. (Fall and Spring Semesters)

## EDUCATION (EDUC)

**EDUC 244 Learning Disabilities 3 credits**

*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)

**EDUC 256 Instruction of Special Students 3 credits**

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)



**ELECTRICAL ENGINEERING (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)

**GENERAL ENGINEERING (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 (ELEC)**

**ELEC 100 Introduction to Electricity 3 credits**

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)

**ELEC 101 Electrical Fundamentals I 5 credits**

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)

**ELEC 102 Electrical Fundamentals II 5 credits**

*Prerequisite: ELEC 101.*

This course will introduce the student to alternating current. The electrical properties and their affects on the circuit will be examined. Basic trigonometric skills will be utilized to perform calculations for analyzing various electrical circuits. (Spring Semester)

**ELEC 103 Electrical Code Study Fundamentals 2 credits**

This course is a preliminary 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)



**ELEC 111 Electric Meters and Motors 3 credits**

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)

**ELEC 133 Basic Wiring 3 credits**

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)

**ELEC 137 Electrical Drafting 2 credits**

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. (Fall Semester)

**ELEC 139 Electric Code Study - Residential 3 credits**

*Prerequisite: ELEC 103 or instructor's consent.*

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. (Fall Semester)

**ELEC 201 Alternating Current Theory 5 credits**

*Prerequisite: ELEC 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)

**ELEC 204 Electrical Planning and Estimating 3 credits**

*Prerequisite: ELEC 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)

**ELEC 205 Electrical Design and Lighting 3 credits**

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 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)

**ELEC 211 AC Measurements 3 credits**

*Corequisite: ELEC 201.*

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)

**ELEC 233 Commercial Wiring Lab 3 credits**

*Prerequisite: ELEC 133.*

*Corequisite: ELEC 236.*

This course is an extension of ELEC 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)

**ELEC 236 Conduit, Raceways and Code Lab 3 credits**

*Prerequisite: ELEC 133.*

*Corequisite: ELEC 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)

**ELEC 239 Grounding/Bonding Fundamentals 3 credits**

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)

**ELEC 241 Electric Motor Controls 3 credits**

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)

**ELEC 247 Medium and High Voltage 3 credits**

This course is a lecture/lab course which covers medium and high voltage electrical theory, conductors, insulators, over current devices, testing, termination, safety precautions and safety equipment. (Spring Semester)

**ELEC 250 Introduction to Photovoltaic Systems 5 credits**

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)

**ELEC 252 Fundamentals of Grid Tied Photovoltaic Systems 5 credits**

*Prerequisites: ELEC 102, ELEC 250.*

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)

**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 Transition to Advanced Care 2 credits**

*Prerequisite: Montana licensure and NREMT certification as an EMT.*  
This course provides an opportunity for the EMT-Basic to start learning the cognitive, psychomotor, and behavioral differences between an EMT and a paramedic. Topics covered include roles and responsibilities of the Paramedic, EMS Systems, licensure and recertification requirements, medical, legal, and ethical issues, patient assessment, radio communications, documentation, and other current issues that impact the EMS professional. (Fall Semester)

**EMS 155 Paramedic Fundamentals 3 credits**

*Prerequisites: BIOH 104 and BIOH 105, EMS 150.*  
*Corequisites: EMS 156, EMS 160, EMS 165, EMS 166, EMS 275.*  
This course continues with the concepts learned in EMS 150, 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)

**EMS 156 Paramedic Fundamentals Lab 1 credit**

*Prerequisites: BIOH 104 and BIOH 105, EMS 150.*  
*Corequisites: EMS 155, EMS 160, EMS 165, EMS 166, EMS 275.*  
This course allows the student to practice the psychomotor skills learned in EMS 155. Skills include patient assessment, venous access and medication administration and airway management. (Spring Semester)

**EMS 160 EMS Case Studies 3 credits**

*Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150.*  
*Corequisites: EMS 155, EMS 156, EMS 165, EMS 166, EMS 275.*  
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)

**EMS 165 Medical Emergencies I 3 credits**

*Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150.*  
*Corequisites: EMS 155, EMS 156, EMS 166, EMS 275.*  
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)

**EMS 166 Medical Emergencies I Lab 1 credit**

*Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150.*  
*Corequisites: EMS 155, EMS 156, EMS 165, EMS 275.*  
This course allows the student to practice the psychomotor skills learned in EMS 165. 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)



**EMS 221 Trauma 3 credits**

*Prerequisites:* acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150.

*Corequisites:* EMS 222, EMS 250, EMS 265, EMS 266, EMS 277. 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)

**EMS 222 Trauma Lab 1 credit**

*Prerequisites:* acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150.

*Corequisites:* EMS 221, EMS 250, EMS 265, EMS 266, EMS 277. 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)

**EMS 240 Instructional Methodology 2 credits**

This course is designed for individuals pursuing a career in emergency services. It will involve skill development in instructional design, delivery and evaluation, organization of training programs, preparation of training materials, and the study of public relations as it relates to emergency services in the community. (Fall Semester)

**EMS 250 EMS Operations 3 credits**

*Prerequisites:* acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150.

*Corequisites:* EMS 221, EMS 222, EMS 265, EMS 266, EMS 277. 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)

**EMS 265 Medical Emergencies II 2 credits**

*Prerequisites:* acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150.

*Corequisites:* EMS 221, EMS 222, EMS 250, EMS 266, EMS 277. 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)

**EMS 266 Medical Emergencies II and EMS Operations Lab 1 credit**

*Prerequisites:* acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150.

*Corequisites:* EMS 221, EMS 222, EMS 250, EMS 265, EMS 277. 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)

**EMS 270 EMT-B 5 credits**

*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)

**EMS 271 NREMT Exam Preparation 2 credits**

*Prerequisites:* acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150.

*Corequisites:* EMS 272, EMS 279.

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)

**EMS 272 NREMT Exam Preparation Lab 2 credits**

*Prerequisites:* acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150.

*Corequisites:* EMS 271, EMS 279.

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)

**EMS 275 Clinical I 5 credits**

*Prerequisites:* acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150.

*Corequisites:* EMS 155, EMS 156, EMS 160, EMS 165, EMS 166. 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)

**EMS 275.5 Paramedic Clinical I Summer Practicum 4 credits**

*Prerequisites:* EMS 274, EMS 275.

This course provides the EMT-Paramedic student with the summer semester opportunity for field application of practical knowledge and skills gained from EMS 275. Students will perform advanced level skills with their ALS licensed agencies under the direct supervision of a licensed professional preceptor. (Summer Semester)

**EMS 277 Clinical II 6 credits**

*Prerequisites:* acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150, Montana EMT-B license.

*Corequisites:* EMS 221, EMS 222, EMS 250, EMS 265, EMS 266. 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)



**EMS 279 Clinical III: Field Experience 3 credits**

*Prerequisites: acceptance into the Paramedicine program, BIOH 104 and BIOH 105, EMS 150, Montana EMT-B license.*

*Corequisites: EMS 221, EMS 222, EMS 250, EMS 265, EMS 266.* 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)

**EMS 298 Internship: Paramedicine 2 credits**

*Prerequisites: must have completed EMS 279, approval of program director.*

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)

**ENGLISH (ENGL)****ENGL 251F Creative Writing in Fiction 3 credits**

*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)

**ENGL 252F Creative Writing in Poetry 3 credits**

The reading and writing of poetry with emphasis on the techniques of imaginative writing and critical appraisal. (All Semesters)

**ENGL 270 Introduction to Linguistics 3 credits**

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)

**ENGL 271 Creative Writing Workshop: Fiction 3 credits**

*Prerequisite: ENGL 251 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)

**ENGL 272 Creative Writing Workshop: Poetry 3 credits**

*Prerequisite: ENGL 252 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)

**ENVIRONMENTAL SCIENCE (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**

*Prerequisites: 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 learners 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 Driving 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.

**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 II proficiency will be presented and tested. (Spring Semester)

**EQOP 120 Introduction to Landscape Design 3 credits**

This course introduces students to the fundamentals of landscape construction, including reading and interpreting landscape blueprints, site layout employing building levels and measuring devices, emplacement of slope, grade and drainage stakes, and the safe operation of tools and construction equipment commonly employed in landscaping. (Intermittently Spring and Summer Semesters)

**EQOP 125 Landscape Construction 5 credits**

This course provides the student an orientation to the field of landscape construction employing heavy equipment and hand tools to successfully develop terrain from an unimproved state to a finish grade. Identification of heavy equipment machinery, operational safety, operational procedures, maintenance of equipment and operating conditions will be presented. Each student will be employed in a work experience environment operating a front end loader, bulldozer, landscape tractor, skidster and various hand tools. (Intermittently Spring and Summer Semesters)

**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**  
*Formerly ART 158F Basic Videomaking*

*Prerequisite: instructor's consent.*

Basic Videography teaches basic methodology of video-making. Students will use tools and techniques of sound and motion to produce short videos for professional and personal growth in the medium. (Intermittently)

**FILM 254 Acting for Film 3 credits**  
*Formerly THTR 228 Acting for Film*

*Prerequisite: THTR 120, THTR 121 or by audition.*  
 This course is an exploration of the techniques of acting for film and television. Since film acting demands a very different set of skills than those required for acting in the theatre, yet is derivative of them, this course will concentrate on scaling down a performance from theatrical to cinematic style and other methods of adapting stage skills to this unique medium. (Spring Semester)

**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 lands sustainable use in concert with other resources. (Spring Semester)

**FORS 153 Forest Resource Calculations 3 credits**

*Prerequisite: appropriate placement test score, 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, 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: M 121.*  
 The theory and application of photo and electro-optical remote sensing for mapping resources and developing information systems. (Fall 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 School's Conclave held at various locations throughout the West. Educational tours focus on forest management techniques used by managers to solve local problems. (Spring Semester)

**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)

**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)

**GERONTOLOGY (GERO)**

**GERO 225 Disability and Aging 3 credits**

*Prerequisite: ability to use internet and word processing.*  
*Corequisites: PSYX 233, SOCI 235.*  
 This course explores aging as it affects work, leisure recreation, disability and wellness. It examines rehabilitation theory, research and application to the practice of today's health care professional and care of specific populations. (Spring Semester)



**GERO 255 Management of Dementia 3 credits**

*Prerequisite: ability to use internet and word processing.*

This course focuses on the disease process, caring for people with dementing illnesses in acute, community and long-term care settings. It discusses the disease process, effects on performance of activities of daily living, caregiver stress, strategies for managing and evaluating care provided by family caregivers and allied health personnel. (Intermittently)

**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)

**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)

**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 (HLTH)****HLTH 101 Opportunities in Health and Medical Careers 2 credits**

*Prerequisites: ability to use internet and word processing.*

Lecture, research, discussion groups, assessments, observations, and field trips provide orientation to make a career choice and set goals to obtain employment in health care professions. Students explore characteristics of health care personnel, personal assessment as a health care worker, levels of education required for various occupations, certification and licensing, health care systems, health care terms, philosophy and continuity of care, overview of medical law and ethics, client advocacy, current issues trends, legislative, and economic influences. (All Semesters)

**HLTH 200 Foundations of Physical Education 3 credits**

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)

**HLTH 201 First Aid 2 credits**

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)

**HLTH 202 Health and Behavioral Emergencies in the Workplace 1 credit**

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)

**HLTH 203 Health for the Individual 3 credits**

The study of health principles enabling the student to make the essential choices for a more healthful lifestyle. (Fall Semester)



**HLTH 205 Care and Prevention of Athletic Injuries 3 credits**

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)

**HLTH 210 Basic Exercise Prescription 3 credits**

*Prerequisite: HLTH 200.*

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)

**HLTH 215 Practical Fitness Assessment Techniques 3 credits**

*Prerequisites: BIOH 104, BIOH 105, HLTH 200, HLTH 203.*

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)

**HLTH 230 School Health 3 credits**

This course allows the student to develop a knowledge base of the various health topics in which an elementary education teacher needs to be trained. Also incorporated into the course is designing a health curriculum with lesson plans, which is accomplished throughout the semester by participation in: student work groups (in-class and out-of-class), small group class discussions, class presentations, designing a health curriculum assignment and presenting it in report, and presenting lesson plans to the class. (Fall and Spring Semesters)

**HONORS (HONS)****HONS 210 Honors Symposium 1-3 credits**

*Prerequisite: by invitation.*

Students are invited to participate in honors studies on the basis of earned grade point average and other criteria. Students will be required to attend the course as well as the other activities/events that are planned for that semester. The topic changes each year as does the design of the events. 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)

**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.*  
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.*  
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.*  
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.*  
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.*  
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.*  
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.*

Overview and orientation to the field of human services and related helping fields. Identification of 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 262 Field Experience and  
Seminar I 3 credits**

*Prerequisites: HS 100 or HS 250 or PSYX 100 or PSYX 233, instructor's consent.*

This course provides the student with the opportunity to take academic knowledge gained through coursework 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. (All Semesters)

**HS 264 Field Experience and  
Seminar II 3 credits**

*Prerequisites: HS 100 or HS 250 or PSYX 100 or PSYX 233, instructor's consent.*

This course provides the student with the opportunity to take academic knowledge gained through coursework 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 266 Field Experience and  
Seminar III 3 credits**

*Prerequisites: HS 100 or HS 250 or PSYX 100 or PSYX 233, instructor's consent.*

This course provides the student with the opportunity to take academic knowledge gained through coursework 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 279 Legal/Ethical/Professional  
Issues 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)

**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 modern period 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)

**HUMANITIES (HUM)****HUM 261H Introduction to Humanities: Origins and Influences I 4 credits**

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)

**HUM 262H Introduction to Humanities: Origins and Influences II 4 credits**

This course offers an interdisciplinary survey of human creative achievements from Early Renaissance to Post-modernism. 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)

**HEATING/VENTILATION/AIR CONDITIONING (HVAC)****HVAC 101 HVAC Fundamentals 2 credits**

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 Semester)

**HVAC 120 Boiler Operator Certification 2 credits**

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)

**HVAC 131 HVAC Electrical I 3 credits**

Basic electrical safety and electrical theory such as Ohms Law, circuit schematic symbols, 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 HVAC 231. Students enrolled in the HVAC program are required to take this course. (Internet course only.) (Fall and Spring Semesters)

**HVAC 141 HVAC Systems I 3 credits**

*Prerequisite: HVAC 101.*

This course is a logical continuation of HVAC 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)

**HVAC 231 HVAC Electrical II 3 credits**

*Prerequisite: ELEC 100.*

Areas of study will include basic control circuits, sequence 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)

**HVAC 241 HVAC Systems II 3 credits**

*Prerequisite: HVAC 141.*

This course is a continuation of HVAC 141. Topics covered include duct sizing with activities based on previous work in HVAC 141. 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)



**HVAC 251 HVAC Refrigeration I 3 credits**

*Prerequisite: HVAC 141.*

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)

**HVAC 264 HVAC Field Experience I 10 credits**

*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)

**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 Semesters)

**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 110 Honor's Symposium Workshop 1 credit**

Each spring semester a variety of activities will be organized by the Honors Symposium Steering Committee concerning that year's theme. Students who wish to document participation in twenty hours of activities will be given credit. Activities may take the form of lectures, theater, films, debates, etc. This course may be repeated for a total of two credits. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Spring Semester)



**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.*

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 multi-tasking 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: ITS 212.*

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.*

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**

*Prerequisites: BMGT 235, CAPP 106.*

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. (Intermittently)

**ITS 224      Introduction to Linux      3 credits**

*Prerequisite: ITS 212.*

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. (Intermittently)

**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 included. (Intermittently)

**ITS 280      Computer Repair and Maintenance      3 credits**

*Prerequisites: CAPP 106; 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 280      Computer Repair and Maintenance      3 credits**

*Prerequisites: BUS 275, CAPP 138, 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)



**JOURNALISM (JRNL)****JRNL 100 C Introduction to Mass Media 3 credits**

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)

**JRNL 101C 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 111C College Publications I 3 credits**

*Prerequisite: JRNL 101, WRIT 101 or instructor's consent.*

Students participate in publication of the student newspaper. Students will be required to complete basic cub reporter assignments - covering meetings, rewriting press releases, doing short profiles, along with, where applicable, selling ads and taking pictures. (Fall Semester)

**JRNL 112 College Publications II 3 credits**

*Prerequisite: JRNL 101, JRNL 111, WRIT 101 or instructor's consent.* Students will develop reporting techniques in conjunction with publication of student newspaper. In addition to general assignment reporting, students will be expected to cover a beat, such as Student Senate or Board of Trustees. Students interested in advertising and business will be expected to develop, manage, design and maintain ad accounts. Photographers will not only do spot news pictures, but also work on photo feature assignments. (Spring Semester)

**JRNL 211 Advanced Student Publications I 3 credits**

*Prerequisite: JRNL 101, JRNL 111, JRNL 112 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 beginning editing of new reporters' work. Advertising personnel will oversee all aspects of ad sales, production and marketing. Photo editors will oversee all aspects of news photography, from darkroom management to generating photo essay and maintaining a photo library. (Fall Semester)

**JRNL 212 Advanced Student Publications II 3 credits**

*Prerequisite: JRNL 101, JRNL 111, JRNL 112 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 275 Journalism 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. 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 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)

**LINGUISTICS (LING)****LING 050~ English as a Second Language 3 credits**

This course assists international students, who have limited English proficiency, to adjust to the academic and cultural demands of college level work. The course will help students improve in the four areas of language: speaking, reading, writing, and listening using an integrated communicative language approach. This course is strongly recommended to all foreign students with TOEFL scores below 525 and to all foreign students who have entered the college without TOEFL scores. (All Semesters)

**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 207GH African-American Writers 3 credits**

This course introduces students to distinguished writing by African-American writers through five eras: slavery and freedom; the new Negro Renaissance; the Harlem Renaissance; Modernism, Realism, and Naturalism, the Black Arts Era; and literature since 1975. Students will study, through texts and film, such major writers as Frederick Douglass, W.E.B. Du Bois, Zora Neale Hurston, James Baldwin, Martin Luther King, and Toni Morrison. Slave narratives, poems, short stories, essays, letters, speeches, plays, and novels may be discussed. In addition, the effect of American and African history, economics, politics, and religion on African-American literature will be explored. Students will have an opportunity to appreciate the rich African-American vernacular and musical tradition. (Fall Semester)

**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 Wordsworth 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 will examine the pivotal books of the Bible (Old Testament and Revelations) as a literary and cultural document not as a theological tract. Students will analyze it as a collection of books, including history, poetry, letters, apocalyptic literature, wisdom literature, mythological material, prophetic books and laws. Literary types, appropriate historical background, problems of authorship and the use of language will be discussed. (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 246GH Major Women Writers 3 credits**

This is a survey course that introduces students to distinguished writing by major women writers from 1750 to the present and that seeks to acquaint students with an essential literary history often omitted from 'canonical' classes. The course includes minority writers and writers from other countries, such as Bangladesh and Japan, and examines several genres of writing (poems, stories, novels, essays, letters, screenplays, plays). (Spring and Summer Semesters)

**LIT 275 Folklore and Folk Literature 3 credits**

This course examines and explores the interesting and intriguing items of our lives that we take for granted every day. Even as we examine our lives, we'll be able to begin a journey into the discipline of folklore and discover its importance in the various fields of science. (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 Semester)

**MATHEMATICS (M)****M 061~ Basic Mathematics 3 credits**

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. (Fall and Spring 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 reviews the topics of pre-algebra. This course covers the topics of real numbers, solving linear equations and inequalities, data analysis, functions, graphs of linear equations, exponents, polynomials, factoring, solving quadratic equations by factoring. This course is not eligible for transfer. (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 095, 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, and real numbers; number theory; and decimals. (Fall Semester)

**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. (Spring Semester)

**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:* appropriate placement test score, 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)

## MANUFACTURING (MFGT)

**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)

**MFGT 120 Mill and Lathe Systems 4 credits**

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)

**MFGT 128 HAAS CNC TM1 Lathe Operations 3 credits**

*Prerequisite or corequisite: MFGT 115.*

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)

**MFGT 129 HAAS CNC TM1 Vertical Mill Operations 3 credits**

*Prerequisite: MFGT 115 or instructor's consent.*

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)

**MFGT 141 Machine Quality Control and Precision Measurement 3 credits**

*Prerequisites: MFGT 128, MFGT 129.*

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)

## 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. Satisfactory/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: Flathead Community Orchestra 1 credit**

The Flathead 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: FVCC Ensemble 1 credit**

The Flathead Valley Community College Ensemble 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. A maximum of four credits in music ensemble may be applied towards graduation. (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: Flathead 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: Flathead 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 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, woodwind, violin) 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**

*Prerequisites: 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**

*Prerequisites: 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)

**MUSICAL TECHNOLOGY (MUST)****MUST 116 Introduction to MIDI 1 credit**

An introduction to Musical Instrument Digital Interface (MIDI), music notation, sequencing and song arranging using computers and synthesizer. Provides students with an overview of recording, arranging and notating musical compositions using computers and MIDI. (Intermittently)

**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, ultra sonic, 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 of 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 Welding Society D1.1 Structural Steel Code Books standards and evaluation procedures. Students will learn to interpret code requirements for AWS welding procedures, evaluations, and certification requirements. (All Semesters)

**NATURAL RESOURCES (NR)**

NR 151 see SRVY 135

NR 233 see SRVY 233

NR 234 see SRVY 290

NR 235 see SRVY 245

**NURSING (NRSNG)****NRSNG 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; need to understand human motivation and behavior; and use of the nursing process. (Spring Semester)



**NRSNG 130 Fundamentals of Nursing 7 credits**

*Prerequisites:* BIOH 201, BIOH 211, CHMY 121, M 121, NRSNG 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.

**NRSNG 135 Nursing Pharmacology 3 credits**

*Prerequisites:* BIOH 201, BIOH 211, CHMY 121, M 121, NRSNG 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)

**NRSNG 138 Gerontology for Nursing 2 credits**

*Prerequisites:* BIOH 201, BIOH 211, CHMY 121, M 121, NUTR 221, PSYX 100, and WRIT 101.

*Corequisites:* NRSNG 130, NRSNG 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. (Spring Semester)

**NRSNG 140 Core Concepts of Adult Nursing 7 credits**

*Prerequisites:* NRSNG 130, NRSNG 135, NRSNG 138.

*Corequisites:* NRSNG 142, NRSNG 144, NRSNG 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)

**NRSNG 142 Core Concepts of Maternal Child Nursing 3 credits**

*Prerequisites:* NRSNG 130, NRSNG 135, NRSNG 138.

*Corequisites:* NRSNG 140, NRSNG 144, NRSNG 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)

**NRSNG 144 Core Concepts of Mental Health Nursing 2 credits**

*Prerequisites:* NRSNG 130, NRSNG 135, NRSNG 138.

*Corequisites:* NRSNG 140, NRSNG 142, NRSNG 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. (Summer Semester)

**NRSNG 148 Leadership Issues 2 credits**

*Prerequisites:* NRSNG 130, NRSNG 135, NRSNG 138.

*Corequisites:* NRSNG 140, NRSNG 142, NRSNG 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)

**NRSNG 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)

**NRSNG 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 processes 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. (Spring 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. (Fall Semester)

**NURSING (NURS)****NURS 101 Nurse's Aide Training 5 credits**

*Prerequisite:* required immunizations, successful completion of a background check from an approved vendor, and nursing staff consent.

Concepts and practices in basic skills for CNA. This 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 such as bathing, grooming, dressing, feeding, toileting and ambulation. 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 in the nursing office, Learning Resources Center and registration office. (All Semesters)

**NURS 102 Acute Care Training 2 credits**

*Prerequisite:* NURS 101 or CNA license.

The course will focus on upgrading skills to care for operative, medical, orthopedic and neurological patients. It is designed to use their CNA knowledge and skills as a foundation. (Intermittently)

**NUTRITION (NUTR)****NUTR 221N Basic Human Nutrition 3 credits**

*Prerequisite:* CHMY 121.

*Corequisites:* BIOH 201, BIOH 211.

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. (Fall and Spring 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)**

Physical Education 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.

**PE 108 Beginning Tennis 1 credit**

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)

**PE 110 Intermediate Tennis 1 credit**

This course is an extension of PE 108 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)

**PE 112 Handgun Marksmanship 1 credit**

*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)

**PE 116 Weight Training: Fit and Trim 1 credit**

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)



**PE 117      Body Building      1 credit**

Orientation to the specifics of resistance training. Focus primarily on free weights and universal equipment. Students receive instruction on anatomy, calisthenics, body mechanics and the basic principles of resistance training as it is applied to the goals of body building. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

**PE 119      Total Fitness for Women      1 credit**

*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)

**PE 120      Women's Circuit Training      1 credit**

Traditional circuit training course taught at a continuous fat burning pace. This course uses a variety of weight training equipment to strengthen and tone all major muscle groups. Appropriate for all fitness levels. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

**PE 121      Circuit Aerobics      1 credit**

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)

**PE 124      Cardioboxing      1 credit**

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)

**PE 127      Aquaerobics      1 credit**

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)

**PE 130      Beginning Yoga      1 credit**

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)

**PE 133      Racquetball      1 credit**

Students are introduced to different techniques and strategies to play racquetball. Various drills and instruction are incorporated throughout the course as well as both singles and doubles matches. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

**PE 136      Beginning Softball      1 credit**

This course is designed to introduce students to the basic fundamentals of softball. Students will acquire skills and tactics through repetitive drills and games. Throughout the course, students will be challenged to excel in the physical and mental aspects of the game. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

**PE 137      Golf      1 credit**

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)

**PE 140      Pilates      1 credit**

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)

**PE 142      Logger Sports      1 credit**

*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)



**PE 145 Basic Rock Climbing 1 credit**

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)

**PE 148 Basic Outdoor Climbing .5 credit**

This course is designed to be an initial introduction to outdoor rock climbing, suitable for students who have never rock climbed, climbed only on artificial climbing walls, or have some experience, but would like to increase their knowledge and skill. Students will learn how to set up anchors, how to rappel, how to belay, and of course, how to climb. At the completion of this course, each student should be able to go out climbing with their friends in a knowledgeable and safe manner. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Intermittently)

**PE 151 Flag Football 1 credit**

This course will allow students to learn and play the different football positions in a fun, non-tackling atmosphere. Students will be introduced to the technical and tactical strategies of offense and defense. The course will incorporate basic to advanced skill drills, instruction of play and rules and full field games. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

**PE 156 Boarding Basics 1 credit**

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)

**PE 157 Cruising at the Mountain 1 credit**

*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)

**PE 158 Free Style Riding at the Mountain 1 credit**

*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)

**PE 161 Alpine Skiing I 1 credit**

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)

**PE 162 Alpine Skiing II 1 credit**

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)

**PE 163 Alpine Skiing III 1 credit**

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)

**PE 200 Functional Training 2 credits**

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. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall and Spring Semesters)

**PE 251 Varsity Cross-Country Running 1 credit**

*Prerequisite: instructor's consent.*  
*Corequisite: students must be enrolled for a minimum of 12 credits per semester.*  
Practice and compete in cross country running. Students receiving financial aid or veterans' benefits should check with the Financial Aid Office before repeating this course. (Fall Semester)

**PHARMACY (PHAR)**

PHA 110 see PHAR 115

PHA 150 see PHAR 198

**PHAR 115 Pharmacy Technician Practice and Calculations 4 credits**

*Formerly PHA 110 Introduction to Pharmacy Practice*

*Prerequisite: acceptance in Pharmacy Technology program.*  
*Corequisites: AHMS 144 (if previously not completed with a "C" or better), BIOH 104, and BIOH 105.*

This 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**  
*Formerly PHA 150 Hospital and Community Practice*

*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.*

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 131 Critical Reading and Thinking 2 credits**

*Prerequisite: appropriate placement test score or instructor's consent.*

This course is a college level reading course that emphasizes critical thinking/critical reading skills needed for success in college. The course will develop a college level vocabulary associated with critical thinking exercises and activities, higher order thinking skills and critical reading techniques essential for inquiry, reflection and the consideration of alternatives utilized throughout college courses. (Fall and Spring Semesters)

**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 180 Introduction to Existentialism 3 credits**

This course explores the existentialists, Kierkegaard, Jaspers, Heidegger, Sartre, Marcel, Camus and Maurice Merleau Ponty on such topics as the mystery of existence, the limits of language and knowledge, time consciousness, anxiety, freedom, feeling, finitude, guilt, the poetry of inwardness, transcendence, the search for meaning and the authentic life. (Intermittently)

**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**  
*Formerly ART 103F Understanding Photography*

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**  
*Formerly ART 106F Intermediate Photography*

*Prerequisite: PHOTO 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**  
*Formerly ART 154F Digital Photography I*

*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, photo paper and associated software. (All Semesters)

**PHOT 156 Elements of Photoshop for Photographers** 3 credits  
Formerly ART 156 Photoshop Elements for Photographers

*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 version 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  
Formerly ART 160 Digital Darkroom

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 out put. 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 213 Intermediate Photography** 3 credits  
Formerly ART 206 Intermediate Black and White Photography

*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  
Formerly ART 254F Digital Photography II

*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  
Formerly ART 204F Introduction to Color Photography

*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 205NL College Physics I** 5 credits  
Formerly PHXS 121NL and PHYS 121 NL  
Fundamentals of Physics I

*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  
Formerly PHXS 123NL and PHYS 123NL  
Fundamentals of Physics I

*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)

**PARALEGAL (PLGL)**
**PLGL 120 Family Law 3 credits**

This course is designed to introduce non-lawyers and legal assistants to the effect of Montana laws on family relationships. Emphasis will be on the Montana Code, recent case law, use and adaptation of legal forms, and contract with clients and the court system. Areas of study will include prenuptial agreements, common law marriages, marital support, paternity, termination of parental rights, adoption, jurisdictional issues and choice of laws. (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)

**PSYCHOLOGY (PSYX)**
**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 120 Research Methods I 4 credits**

*Prerequisite: PSYX 100 or SOCI 101.*

An introduction to the methods used in social science research. Provides an opportunity for the student to learn about design, control and measurement techniques through actual construction and implementation of a research plan. Includes laboratory exercises related to topics discussed. Lab required. (Spring Semester)

**PSYX 150 Drugs and Society 3 credits**

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)

**PSYX 182 Stress Management 3 credits**

Examines the impact of today's stressful world on the physical and mental health of the individual. Techniques for coping with these stressors are explored and practiced in class (e.g., meditation, relaxation, breathing, etc.). Topics include personality and disease, job burnout, optimal performance, family stress, and others. (Intermittently)

**PSYX 211 Personality and Adjustment 3 credits**

Application of basic psychological principles in coping with the problems of modern living. Topics will include: emotional stress and disorders, environmental stress and control, loving and liking, relationships and divorce, human sexuality, personality development and others. (Spring Semester)

**PSYX 230A Developmental Psychology 3 credits**

*Prerequisite: PSYX 100.*

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 adulthood with an emphasis on infancy through adolescence. 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. (Fall and Spring Semesters)

**PSYX 233 Fundamentals of Psychology of Aging 3 credits**

*Prerequisites: 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 242 Fundamentals of Substance Abuse and Addiction 3 credits**

*Prerequisite: PSYX 100, PSYX 150, 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)

**PSYX 243 Substance Abuse Counseling II 3 credits**

*Prerequisite: PSYX 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)

**PSYX 250NA Fundamentals of Biological Psychology 3 credits**

*Prerequisite: PSYX 100.*

The basic neural mechanisms underlying behavior are studied including the central and peripheral nervous systems, the senses, and basic endocrine functioning. Drugs, sleep, emotion, learning/memory, reproduction and mental illness are also examined. (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 effect 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)

### **REAL ESTATE (REAL)**

**REAL 241 Principles of Real Estate 4 credits**

This course meets the required hours of certified instruction necessary to take the Montana real estate examination, as well as provides pre-designed practice exams. In addition to meeting the basic requirements, this course provides students with accurate and authoritative information for understanding Modern Real Estate Practices. Topics include but are not limited to real estate business, real property and law, concepts of homeownership, agency/representation, contracts/agreements, real estate brokerage, forms of ownership/title, property interests/rights, describing real estate, leases, taxes/liens, financing, management, appraisal, land use/zoning, land development, fair housing, ethics/practices, environment issues, real estate transactions, investment and other relevant information resources. (Intermittently)

### **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. The course will utilize classroom presentation, videos, text and supplementary reading. (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]). This course will be taught utilizing videos, classroom presentations, text and supplementary reading. (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. Videos, classroom presentations, text reading, and supplementary reading will be used in the teaching of this course. (Intermittently)

**RUSSIAN (RUSS)****RUSS 036~ Basic Russian Conversation 3 credits**

Students can come in at any level: beginning, intermediate or advanced. The course will be focused 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)

**RUSS 103 Elementary Russian III 4 credits**

*Prerequisite: RUSS 102 or instructor's consent.*

This second year program activates the essentials of Russian grammar and expands the learner's vocabulary by approximately 900 words. The program consists of a main textbook, student workbook, two 90-minute audiotapes, a supplemental grammar key, and a videotape. These updated tools reflect recent advances in both theory and practice of a second language acquisition. (Intermittently)

**SUBSTANCE ABUSE (SA)****SA 140 Cultural Issues in Addiction Recovery 1 credit**

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)

**SA 221 Assessment and Evaluation Procedures of Substance Abuse 2 credits**

*Prerequisite: PSYX 100, PSYX 150, or PSYX 242.*

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)

**SMALL BUSINESS MANAGEMENT (SBM)**

*SBM 140 see BMKT 130*

*SBM 150 see BMGT 210*

**SIGN LANGUAGE (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 class 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 231 Beginning S.E.E. Sign Language 2 credits**

An introduction to finger spelling and sign language, using a sign for every word. (Fall Semester)

**SIGN 232 Intermediate S.E.E.  
Sign Language 2 credits**

*Prerequisite: SIGN 231.*

Continued study in sign language using a sign for every word said and building accuracy, clarity, and fluency in signing skills. (Spring Semester)

**SIGN 233 Advanced S.E.E.  
Sign Language 2 credits**

*Prerequisites: SIGN 231, SIGN 232.*

Advanced study of Signing Exact English preparing to educate and interpret for the hearing impaired at an advanced vocabulary level. Maintaining and improving signing skills. (Intermittently)

**SIGN 243G Advanced American  
Sign Language 3 credits**  
*Formerly SIGN 281G Advanced American Sign Language*

*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**

*Prerequisites: 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**

*Prerequisites: 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 121A see CJUS 121A*

**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 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 236GA Introduction to Race  
and Ethnic Relations 3 credits**

Racial and minority differentiation, with emphasis upon the major ethnic groups of the United States and their problems of assimilation. Historical acculturation and its effect on today's minority groups. Legal remedies and social changes as they are developing are presented. (Spring Semesters)



**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 Public Speaking 3 credits**

Study, practice and observation of communication skills in public speaking. Emphasis is placed on practical experience in developing techniques of organization, delivery and content. (All Semesters)

**SP 120C Interpersonal Relations/Communications 3 credits**

Study of and practice in communication skills in professional life and in daily relationships. (All Semesters)

**SP 150CF Video Communication 3 credits**

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, entertainments, 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)

**SP 160CF Oral Interpretation 3 credits**

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)

**SP 215 Negotiations/Conflict Resolution 3 credits**

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)

**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)**

*SURV 141 see SRVY 241 SURV 273.1 see SRVY 271*  
*SURV 142 see SRVY 242 SURV 273.2 see SRVY 247*  
*SURV 152 see SRVY 152 SURV 273.3 see SRVY 273*  
*SURV 155 see SRVY 255 SURV 274 see SRVY 298*  
*SURV 163 see SRVY 262 SURV 275 see SRVY 275*  
*SURV 270 see SRVY 268 SURV 276 see SRVY 283*  
*SURV 271 see SRVY 246 SURV 277 see SRVY 290*  
*SURV 272 see SRVY 270 SURV 278 see SRVY 265*

**SRVY 135 Field Surveying / Global Positioning System Introduction 5 credits**

*Formerly NR 151 Field Surveying/  
Global Positioning System Introduction*

An introduction to basic land measurements, surveying techniques, and wilderness navigation. Exercises include measuring horizontal, vertical, and slope distances; measuring angles and direction, conducting closed traverses, understanding topographic maps, compass skills, basic GPS navigation, and computation and drafting of field data. Historical development of maps, the U.S. Public Land Survey System, topographic maps, and an introduction to Global Positioning Systems is presented. (Fall Semester)

**SRVY 152 Surveying Graphics 2 credits**

*Formerly SURV 152 Surveying Graphics*

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  
*Formerly NR 233 Introduction to Geographic Information Systems*

*Prerequisite:* FORS 251, M 121 or SRVY 275.  
 Introduction to the basic concepts and techniques of computerized spatial data management and analysis systems with application to natural resource/surveying assessment. (Spring Semester)

**SRVY 241 Introduction to Surveying for Land Surveyors I** 5 credits  
*Formerly SURV 141 Surveying I*

*Corequisite:* M 095.  
 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  
*Formerly SURV 142 Surveying II*

*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  
*Formerly NR 235 GPS Mapping*

*Prerequisite:* GPHY 111, SRVY 135 or instructor's consent.  
 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. (Fall Semester)

**SRVY 246 Introduction to GPS for Surveyors** 2 credits  
*Formerly SURV 271 Introduction to GPS*

*Prerequisite:* GPHY 111, SRVY 135, SRVY 241, or instructor's consent.  
 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. (Fall Semester)

**SRVY 247 Survey-grade GPS Control and Analysis** 3 credits  
*Formerly SURV 273.2 Projects in GPS*

*Prerequisite:* SRVY 270 or instructor's consent.  
*Corequisites:* SRVY 271, SRVY 273.  
 Review of basic Global Positioning System principles; instruction and practice in traversing with survey-grade receivers and computer analysis of data; practical projects to compare horizontal/vertical positioning obtained with resource-grade versus survey-grade receivers; student-designed project with instructor supervision to extend a control network and master field and office techniques. (Spring Semester)

**SRVY 255 Surveying Calculations** 3 credits  
*Formerly SURV 155 Surveying Calculations*

*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  
*Formerly SURV 163 Land Survey Systems*

*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  
*Formerly SURV 278 Surveying Laws, Planning and Design*

*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  
*Formerly SURV 270 Computer Aided Drafting*

*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  
Formerly SURV 272 Land Surveying I

*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  
Formerly SURV 273.1 Land Surveying II

*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  
Formerly SURV 273.3 Route Surveying

*Prerequisite:* SRVY 270 or instructor's consent.  
*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  
Formerly SURV 275 Photogrammetry and Remote Sensing

*Prerequisite:* M 121.

The theory and application of photo and electro-optical remote sensing for mapping resources and developing information systems. (Fall Semester)

**SRVY 280 Land Surveying Computers** 2 credits  
Formerly SURV 279 Surveying Laws, Planning & Design

*Prerequisite:* SRVY 268.

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  
Formerly SURV 276 Introduction to Geographic Information Systems

*Prerequisite:* FORS 251, M 121, or SRVY 275.

Introduction to the basic concepts and techniques of computerized spatial data management and analysis systems with application to natural resource/surveying assessment. (Spring Semester)

**SRVY 290 Undergraduate Research: Projects in GIS** 2 credits  
Formerly NR 234 and SURV 277 Projects in GIS

*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 OTJ: Land Surveying III** 4 credits  
Formerly SURV 274 Land Surveying III (OJT)

*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:* a grade of "C" or better in M 115, appropriate placement test score, 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)

## OFFICE TECHNOLOGY (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. Keyboarding by touch at a rate of 25 words a minute for two minutes with no more than five errors. This course is self-paced. (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. A goal of 40-45 words a minute is expected. (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 nonvocational 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, consent of internship coordinator and advisor.*

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 228 see FILM 254***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**

Intensive 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 Introduction to Welding Fundamentals 3 credits**

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)

**WLD 112 Introduction to Pipe Welding 4 credits**

*Prerequisites: WLD 100, WLDG 110.*

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.*

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 125      Blueprint Reading for Welders      3 credits**

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)

**WLD 135      Advanced GMAW/GTAW  
Welding and Certification      4 credits**

*Prerequisites:* WLDG 110, WLDG 114, 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      Welding Theory I      4 credits**

*Prerequisite or Corequisite:* WLD 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 114      Mig/Tig Welding      4 credits**

*Prerequisites:* WLD 100, WLDG 110.

*Corequisite:* WLDG 110.

This is an introductory course presenting the care and use of Gas Metal Arc Welding (GMAW) and Gas Tungsten Arc Welding (GTAW) equipment. 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 and GTAW 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 110 or instructor's consent.

This course provides experienced welders the opportunity to prepare for, practice, and complete the AWS National Welding Certificate exam. 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 114.

This course is an advanced study of pipe welding using SMAW, FCAW, and GTAW including electrode selection, equipment setup, and shop safety. The 5G and 6G welding positions using E6010 and E7018 electrodes will be emphasized. 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 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. (Note: Non-native speakers are referred to LING 050.) 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, mechanic 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 short research paper. Mastery of the basics of grammar and mechanics is assumed. (All Semesters)

**WRIT 109C Police Report Writing 3 credits**

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. (Spring Semester)

**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.*

Review basic communication skills including grammar, punctuation and expression of numbers. 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 communication, and business technology. (Fall and Spring Semesters)

**WRIT 160 Vocabulary: A Word to the Wise 3 credits**

This course includes the study of prefixes, suffixes, Latin and Greek roots, words derived from other languages. Class activities emphasize directed practice to expand usable vocabulary. (Intermittently)

**WRIT 201W College Writing II 3 credits**

*Prerequisite: a grade of "B-" or better in WRIT 101 or instructor's consent.*

Refines specific writing techniques and develops control of style and voice. Emphasizes the essay form, writing for a specific audience. Advanced rhetorical and persuasive forms, elementary logic and research techniques. (Fall and Spring Semesters)



## The Continuing Education Center

Quality lifelong learning opportunities for anyone seeking personal enrichment and enhanced employment skills.

*Susie Burch, Executive Director*  
Economic Development & Continuing Education  
Arts and Technology Bldg., Room 215  
(406) 756-3832

*Jan Meadows, Coordinator*  
Continuing Education -Extended Learning Division  
Lincoln County Campus – Libby, MT  
225 Commerce Way  
(406) 293-2721 ext. 235

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*
- *Business and Computer Workshops*
- *Renewal Units for Educators*
- *Professional Development*
- *Customized Workforce Training*
- *Montana Superhost*
- *Small Business Development Center*

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](mailto:ceinfo@fvcc.edu)

**Visit Online:**  
[www.fvcc.edu/continuing-education.html](http://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 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 small and start-up businesses with counseling, education and resources needed to succeed in today's market. For a full description of services, please visit [nwmontanabusiness.com](http://nwmontanabusiness.com).

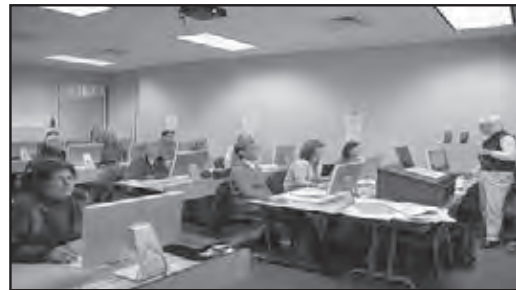


### ***Customized Workforce Training***

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.



### ***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](http://montanasuperhost.com) for more information.



### ***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:

- 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



## *A Sampling of some of our Outdoor Adventures*

Birds of Prey  
 Spring Wildflowers  
 Wild Medicinal Herbs  
 Wolves of the North Fork  
 Landscapes in Watercolor  
 Glacier through Naturalist Eyes  
 Birding by Ear  
 North Fork River Ecology by Raft  
 100 Years of Riding the Rails  
 Nature Photography  
 Summer Mushrooms  
 Grizzlies & Black Bears  
 Beavers: The Best Dam Habitat Builders  
 Geology of Glacier National Park  
 McDonald Creek by Snorkel  
 Fall Mushroom Foray  
 Cattail, Pine Needle & Willow Basket Weaving  
 Hawk and Eagle Migration  
 Heralds of Fall: Ecology of Elk  
 Autumn in Glacier  
 Writing on the Wild Side  
 McDonald Creek by Snorkel  
 Geology Along the Highline



## *See...Touch...Share... Learn...Connect*

The Glacier Institute serves adults and children as an educational leader in the Crown of the Continent ecosystem with Glacier National Park at its center. Emphasizing outreach and field based learning experiences; the non-profit Institute provides an objective and science-based understanding of the area's ecology and its interaction with people. Marking its 27th year of educational programs, The Glacier Institute is a long-time partner with Glacier National Park, the Flathead National Forest, Montana Fish, Wildlife and Parks and Flathead Valley Community College. The Institute offers family programs, youth science adventure camps, Discovery School at the Big Creek Outdoor Education Center and adult educational programs.

The Glacier Institute was founded in 1983 by passionate scientists who wanted to share their love of the Crown of the Continent. With more than 10 million acres, this area, which includes Glacier National Park, the Bob Marshall, the Great Bear and Scapegoat Wilderness areas, and adjacent parks in Canada, comprises the largest intact wilderness ecosystem in the continental United States. Our instructors are recognized experts in their fields, published authors, wildlife biologists, college professors, naturalists and teachers. Our classrooms are the mountain trails and vast river basins that are home to more than 1,200 species of native plants, 240 species of birds and 65 species of native mammals. We sponsor one, two and three-day outdoor workshops and youth camps that immerse our participants in the stunning and stimulating environment. Please join us for a learning adventure you will never forget.



## *How to Register*

**Register online at [www.glacierinstitute.org](http://www.glacierinstitute.org)  
 or by phone at 406-755-1211.**



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Lincoln County Campus Service Region Advisory Board .....	269
fvcc Foundation .....	269
Administration, Staff & Full-Time Faculty .....	270
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*MEd, University of Washington*  
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*MEd, Oregon State University*  
*MSSEd, Eastern Montana College*  
*BS, University of Montana*

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and Student Housing

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*MPA, BS, Montana State University*

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*Certificate of Chef Training, Natural Gourmet Cooking School*  
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*BAS, Montana State University - Billings*  
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Chairperson, Math and Science Division  
*PhD, Oregon State University*  
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*Surgical Technologist, Southeast Technical Institute*  
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BS, Northern Arizona University

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AS, Iowa Lakes Community College

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EdD, MS, Oregon State University  
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BA, University of Montana  
AA, Flathead Valley Community College

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BS, University of Montana

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PhD, MS Miami University  
BA, Ottawa University

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English Instructor  
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BA, Mount Holyoke College

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Coordinator, Financial Aid Operations  
BA, Minot State University

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PhD, Heller School, Brandeis University  
BA, Wellesley College

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Apprenticeship

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Faculty Relations Specialist

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BBA, McKendree College

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Systems Analyst - Infrastructure Support  
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Customer Service Specialist, Financial Aid

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AA, North Idaho Community College

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BA, University of Washington

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BBA, City University of New York

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MA, BSE, Arkansas State University

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BS, Pennsylvania State University

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AAS, New River Community College

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BS, University of Wyoming

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Director, Early Childhood Center  
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BS, Montana State University

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MSN, Gonzaga University

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BS, Cairo University

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MSW, University of Minnesota  
BS, Bemidji State University

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MEd, University of Georgia  
BS, Embry-Riddle

**John Rawlings**  
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BEd, Torrens College  
MFA, University of Guanajuato

**Gerda Reeb**  
Advising and Retention Coordinator  
PhD, MA University of Oregon

**Roberta Reese**  
Bookstore Assistant Manager

**Christina Relyea**  
Natural Resources Instructor  
PhD, Idaho State University  
MS, University of Central Arkansas  
BS, University of Arkansas

**Myrna Ridenour, RN**  
Director, Nursing Program  
MSN, Aegis University  
BSN, Montana State University

**John (Jack) Roark**  
Director, Maintenance Services  
BS, Northern Montana College

**Julie Robertson**

Physical Therapist Assistant, Instructor  
BA, *University of Notre Dame*

**Leslie Rogers**

Associate Director, Community Education  
AA, *Flathead Valley Community College*

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Coordinator of Student Admissions and Running Start  
BS, *University of Montana*  
AA, *Flathead Valley Community College*

**Tara E. Roth**

Director, Communications and Marketing  
BA, *The University of Alabama*

**Britney Rubalcaba**

Early Childhood Center Teacher  
AAS, *Flathead Valley Community College*

**Brenda Rudolph**

Office Technology/Business/Allied Health Instructor  
MBA, *University of Montana*  
BA, *University of Northern Colorado*  
*Medical Coding Certificate*

**Tressa Schutter**

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**Mr. Richard Champoux**  
*MA, BA, University of Montana*

**Mr. Reginald DuMontier**  
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*BA, University of Montana*

**Mr. Donald Garner**  
*MS, BS, Brigham Young University*

**Mr. Thomas Jay**  
*MA, BA, Northern Arizona University*

**Dr. Mel Jordan**  
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**Dr. Jeanette Oliver**  
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**Mr. Richard Schaus**  
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*BS, University of Michigan*

**Mr. George Shryock**  
*Ed.S., University of Montana*  
*MA, BS Idaho State University*

**Dr. Robert Zahrobsky**  
*PhD, University of Colorado*  
*BA, University of Illinois*

### **Emeritus Dean**

**Mr. William McClaren**  
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*AB, Colorado State College of Education*

### **Emeritus Director**

**Kathy Hughes**  
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*BS, Southern Methodist University*



## **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.

### **Building Trades**

Carol Nelson – Carol Nelson Design  
 Brad Reedstrom – Bigfork Builders  
 Susan Smith – RE/MAX  
 Steve Tartaglino – Cornerstone Construction NW, Inc.  
 Greg Waldrop – Building Trades Apprentice Program, FVCC

### **Business Administration/Small Business Management**

Phil Boyce – Precision Engineering  
 Scott Cooksey  
 Suzanne Flynn – Fenix Forestry  
 Hillary Ginepra – FVCC Culinary Arts  
 Tom Jay – FVCC  
 Cindy Jones – Kalispell Public Schools  
 Margaret Lekander – Wheaton's  
 Kim Morisaki – Montana West Economic Development  
 Bill Roope – Former FVCC CTE Director  
 Brenda Rudolph – FVCC Business  
 Paul Rumelhart – Kootenai River Development Council  
 Chad Shilling – FVCC/LCC Business  
 Jodi Smith – Workforce Training, FVCC  
 Joe Unterreiner – Kalispell Chamber of Commerce  
 Jeff Wisher – Able Body Shop

### **Criminal Justice**

Bob Burch – Burch's Photo/Kalispell Police Advisory Council  
 Brett Corbett – KPD/FHS Resource Officer  
 Bill Dial – Whitefish Police Department  
 Ike Eisentraut – Moonlighting Detective Agency  
 Frank Garner – Retired Kalispell Police Dept.  
 Jerry Gillies – U.S. Department of Homeland Security  
 Al Johnson – Retired Public Defender  
 Steve Liss – Federal Bureau of Investigation  
 David Perry – Columbia Falls Police Dept.

### **Culinary Arts**

Kevin Barrows – Flathead Lake Lodge  
 Andy Blanton – Café Kandahar  
 Ted Chappell  
 Doug and Vonnie Day – Capers  
 Ken Degitz – El Topo Cantina  
 Rick Delany – KRMC  
 Rhonda Fitzgerald – Garden Wall Bed & Breakfast  
 Amy Foot – KRMC  
 Marc Guizot – La Provence  
 Joan Herzog – Flathead High School  
 Matt Israel – Blue Canyon Kitchen & Tavern  
 Tim Larson – Costco

Ken Lyons – Iron Horse Golf Club  
 Steve Marqueson – Nite Owl  
 Scott Nagle – Wasabi  
 Ray Negron – Cimarron Café and Catering  
 Steven Nogal – McGarry's Roadhouse

### **Early Childhood Education**

Chris Bilant – Kalispell Public Schools  
 Linda Crayne – Tyketown  
 Deanna Mackin – Nurturing Center  
 Sherrie Smith – Nurturing Center

### **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  
 Karen Chesna – FVCC  
 Janet Fischer – FVCC  
 Vivian Goodnight – FVCC Alum  
 Jill Goodson – Gemvision  
 Wayne Hammer – Vizion, Inc.  
 Jeri Hoogendijk – FVCC Stone Setting Instructor  
 Karen Kolar – FVCC  
 Benjamin Mattison – FVCC Student  
 Lauren Smith – FHS Counselor

### **Graphic Design**

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 Gina Gagnon – Snowghost Design  
 Dwayne Harris – Flathead Beacon  
 Matt Hartle – Deva Studios  
 Jeremiah Martin – The Zane Ray Group  
 Brian Wantaja – Proven Graphics, Inc.





### **Healthcare Office Management, Health Information Technology (HIT) and Patient Relations Specialist**

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 Stacy Warner – Northwest Women’s Health Care  
 Traci Waugh – North Valley Hospital  
 Vicki Wilcutt – KRMC  
 Deb Wolfshorndhl - KRMC

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 Airworks, Inc.  
 Carson Brothers, Inc.  
 Chris Compton – North Idaho Community College  
 Denning Sheet Metal, Inc.

### **Heavy Equipment Operator**

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 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**

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 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  
 Robert Gibson  
 Gil Parsons - Flathead County  
 Ron Sheets – FVCC Management Information Systems  
 Glen Wehe – Evergreen School District

### **Information Technology – Web Technology**

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 Mike Callaghan – Bigfork Web Development  
 Reed Gregerson – The Zane Ray Group  
 Sasha Perkins - FVCC  
 Amy Stewart - Avail TVN  
 Harold Timm – StillBaxterTimm

### **Medical Assistant**

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 Lora Ercanbrack – LCC  
 Craig Harrison, MD – Kalispell Gastroenterology  
 Sue Justis – FVCC  
 Sheila Morin - Big Sky Medical Clinic  
 Patricia Muller – Glacier Foot and Ankle  
 Echo Morrison

### **Medical Office**

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 Stacy Warner – Northwest Women’s Health Care  
 Traci Waugh – North Valley Hospital  
 Vicki Wilcutt – KRMC  
 Deb Wolfshorndhl - KRMC

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 Mark Boardman – Stoltz Land and Lumber Co.  
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 Patrick Heffernan – PAFTI, Inc.  
 Dave Jones – DNRC  
 Jim Kranz – Plum Creek Timber  
 Daniel Leavell - Kootenai National Forest  
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 Jim Williams – Fish, Wildlife and Parks  
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 Betty Haas – Heritage Place  
 Peggy Hertlein – The Springs at Whitefish  
 Kathy Hughes - Community Member  
 Sue Justis - FVCC  
 Cindy Kollenborn – Immanuel Lutheran Home  
 Kathleen Mayer - Community Member  
 Pat Pezzelle - FVCC Lincoln County Campus  
 Kathy Ray – Montana Veteran's Nursing Home  
 Myrna Ridenour - FVCC  
 Linda Schroeckenstein – KRMC  
 Alaine Stremel – NW Women’s Health Care  
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### **Paramedicine**

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 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  
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