

UMW Mission Statement

The University of Montana Western provides innovative interdisciplinary education through experiential learning that combines theory and practice. Montana Western serves citizens of all ages with its academic, community-service, and lifelong-learning programs. As part of the global community, Montana Western encourages diversity, international awareness, environmental responsibility, and mastery of technology as a gateway to the world.

Experience One

Experience One at the University of Montana Western (UMW) is a scheduling model that allows students to apply concepts learned through hands-on experiential activities to their learning in the classroom and in the field. After several years of research and development, Montana Western has found that this process makes learning more interesting, more personal, and allows students to spend more concentrated time with their university professors.

At Montana Western, students typically take one course at a time, three hours per day, for 18 days.

Most students who have been exposed to Experience One strongly support this learning model. As a first time to college freshman or transfer student, we are confident that you will enjoy Experience One and that you will find it a highly rewarding educational experience.

Upon request, the University of Montana Western provides written materials in alternative formats for persons with documented disabilities. For more information, please contact Student Affairs at (406) 683-7565.

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2013-2014 Academic Calendar

Fall Semester 2013

COMMON DATES/DEADLINES	
Registration	April 15-August 26
Fall Faculty Conference	To Be Announced
New Student Orientation; Contact Dean of Students Office	August 22-24
1 st \$40 late registration fee begins ⁴	August 27
Class schedules of non-paid students canceled ³	August 29
Weekend classes begin	August 30-31
Deadline to apply for Fall 2013 graduation	September 1
Labor Day Holiday (University closed)	September 2
Deadline for Summer 2014 early audit graduation application	September 15
2 nd \$40 late registration fee begins ⁴	September 17
Election Day Holiday (not a national election year)	N/A
Veteran's Day Holiday (University closed)	November 11
Registration for Spring Semester begins	November 18
Thanksgiving Recess (no classes)	November 25-29
Thanksgiving Holiday (offices closed)	November 28-29
Deadline to Apply for Spring 2014 graduation	January 7, 2013

TERM-SPECIFIC DATES/DEADLINES					
	EXPERIENCE ONE CLASSES				Full Semester
	Block 1	Block 2	Block 3	Block 4	
Classes begin	Aug 26	Sep 23 ¹	Oct 21 ¹	Nov 18 ¹	Aug 26
Deadline to register ⁴ or add classes (2 nd day of block) ¹	Aug 27	Sep 24 ¹	Oct 22 ¹	Nov 19 ¹	Sep 6 ¹
Class schedules of non-paid students canceled ³	-----Aug 29-----				
Deadline to drop a class-No record of enrollment ¹	Sep 6	-----Sep 13-----			
Deadline to drop a class ² ["W" recorded] or change to/from audit status (end 2 nd week of block) ¹	Sep 6	Oct 4 ¹	Nov 1 ¹	Dec 6 ¹	Oct 18 ¹
Deadline to withdraw from the University [drop ALL ² classes] (end 2 nd week of block) ¹	Sep 6	Oct 4 ¹	Nov 1 ¹	Dec 6 ¹	Dec 6 ¹
Semester final exams	-----Announced by Instructors-----				
Term ends	Sep 18	Oct 16	Nov 13	Dec 18	Dec 18
Final grades due in Registrar's Office	Sep 25	Oct 23	Nov 20	Dec 26	Dec 26

¹Late fees are charged for approved action taken after published deadlines for Block 1; all other classes-Monday, 4th week of term

²Students may not drop or withdraw from any class that has ended

³Some charges (Registration Fee, Orientation Fee, Application Fee, etc.) are non-refundable

⁴Fee payment due at start of semester or immediately upon late registration

2013-2014 Academic Calendar

Spring Semester 2014

COMMON DATES/DEADLINES	
Registration	November 18-January 13
Deadline to Apply for Spring 2014 graduation	January 7
New Student Orientation; Contact Dean of Students Office	January 10
1 st \$40 late registration fee begins ⁴	January 14
Class schedules of non-paid students canceled ³	January 16
Weekend classes begin	January 17-18
Martin Luther King Holiday (University closed)	January 20
2 nd \$40 late registration fee begins ⁴	January 28
President's Day Holiday (University closed)	February 17
Spring Break (no classes, offices open)	March 10-14
Deadline for Fall 2014 early audit graduation application	March 15
Deadline for Summer Graduate Petitions to walk in Spring 2014 Commencement	April 1
Deadline for return of Spring 2014 Commencement Participation Forms	April 18
Registration for Summer & Fall Semester begins	April 15
Deadline to apply for Summer 2014 graduation	May 1
Deadline for Spring 2015 early audit graduation application	May 1
117th Annual Commencement	May 10

TERM-SPECIFIC DATES/DEADLINES					
	EXPERIENCE ONE CLASSES				Full Semester
	Block 5	Block 6	Block 7	Block 8	
Classes begin	Jan 13	Feb 10 ¹	Mar 17 ¹	Apr 14 ¹	Jan 13
Deadline to register ⁴ or add classes (2 nd day of block) ¹	Jan 14	Feb 11 ¹	Mar 18 ¹	Apr 15 ¹	Jan 24 ¹
Class schedules of non-paid students canceled ³	-----Jan 16-----				
Deadline to drop a class-No record of enrollment ¹	Jan 24	-----Jan 31-----			
Deadline to drop a class ² ["W" recorded] or change to/from audit status (end 2 nd week of block) ¹	Jan 24	Feb 21 ¹	Mar 28 ¹	Apr 25 ¹	Mar 7 ¹
Deadline to withdraw from the University [drop ALL ² classes] (end 2 nd week of block) ¹	Jan 24	Feb 21 ¹	Mar 28 ¹	Apr 25 ¹	Apr 25 ¹
Semester final exams	-----Announced by Instructors-----				
Term ends	Feb 5	Mar 6	Apr 9	May 7	May 7
Final grades due in Registrar's Office	Feb 12	Mar 13	Apr 16	May 14	May 14

¹Late fees are charged for approved action taken after published deadlines for Block 1; all other classes-Monday, 4th week of term

²Students may not drop or withdraw from any class that has ended

³Some charges (Registration Fee, Orientation Fee, Application Fee, etc.) are non-refundable

⁴Fee payment due on 1st day of semester or immediately upon late registration

Tentative Academic Calendar Summer 2014

See printed School of Outreach Summer 2014 bulletin or UMW website for current information.

TENTATIVE COMMON CALENDAR DATES/DEADLINES	
Registration begins	April 15
Deadline to apply for Summer 2014 graduation	May 1
Deadline for Spring 2015 early audit graduation application	May 1
Memorial Day Holiday (University closed)	May 26
Independence Day Holiday (University closed)	July 4

	TENTATIVE TERM-SPECIFIC DATES/DEADLINES					
	2013 Summer Blocks			Multi-Block Classes ⁵		
	Block A	Block B	Block C	Block AB	Block BC	Block A-C
Registration (including fee payment)	Apr 15- May 19	Apr 15- Jun 16	Apr 15- Jul 14	Apr 15- May 19	Apr 15- Jun 16	Apr 15- May 19
New Student Orientation	May 19	-----Jun 16-----				
Classes begin	May 19	Jun 16	Jul 14	May 19	Jun 16	May 19
Deadline to register ⁴ or add classes (2 nd day of block) ¹	May 20	Jun 17	Jul 15	May 20	Jun 17	May 20
\$40 late fee (registration/fee payment) begins	May 21	Jun 18	Jul 16	May 20	Jun 18	May 21
Deadline to drop classes – No record of enrollment ¹	May 23	Jun 20	Jul 18	May 30	Jun 27	May 30
Class schedules of non-paid students canceled ³	May 22	-----To be Announced-----				
Deadline to drop a class ² (“W” recorded) or change to/from Audit Status ¹	May 30	Jun 27	Jul 25	Jun 13	Jul 11	Jun 27
Deadline to withdraw from the University (drop ALL ² term/block classes) ¹	June 4	Jul 2	Jul 30	Jul 2	Jul 21	Jul 30
Final exams for term/block	-----Announced by Instructor-----					
Last day of classes – term/block ends	Jun 11	Jul 9	Aug 6	Jul 9	Aug 6	Aug 6
Final block grades due in Registrar’s Office	Jun 18	Jul 16	Aug 13	Jul 19	Aug 13	Aug 13
Final grades for late Summer Session (July & Aug) workshops due in Registrar’s Office (workshop dates will vary)	-----Workshop dates will vary-----					

¹Late fees are charged for approved action taken after published deadlines

²Students may not drop or withdraw from any class that has ended

³Some charges (Registration Fee, Orientation Fee, Application Fee, etc.) are non-refundable

⁴Fee payment due at start of summer session or immediately upon late registration

⁵Excludes Workshops—see printed Outreach Schedule for dates and payment information

Admissions

Admissions Office
James E. Short Center
710 S Atlantic
Dillon MT 59725-3598
(406) 683-7331
Toll Free (877) 683-7331
Email: admissions@umwestern.edu
Website: www.umwestern.edu

Montana Western's Admissions Office provides accurate, timely, and consistent information about UMW to prospective students through the highest quality presentations, publications, and personalized service possible. In meeting its mission, the department helps further the institutional strategic plan by increasing enrollment, diversity in the student body, retention, and positive public image and perception. Ultimately, the goal is to make sure the process of applying to Montana Western runs smoothly and meets the needs of all students.

Applications for admission are accepted from in-state, out-of-state, and international students. Staff assist full-time, part-time, and non-degree applicants through the admission process.

Campus Visits

Visiting the campus is an important step in selecting a college or university. The Admissions Office arranges individualized campus visits Monday through Friday. Guided by students, campus tours acquaint prospective students and their families with on-campus living options,

academics, extracurricular activities, athletics, services, faculty, staff, and fellow students. It is recommended that visit arrangements be made one week in advance to allow scheduling of meetings that accommodate the prospective student's individual interests.

Admissions Standards

All students seeking college credit, certification, or a degree must be fully admitted to Montana Western. Students are responsible for submitting applications and supporting documentation for admission, immunization, financial aid, and housing. Montana and out-of-state freshman applicants who do not meet the admission requirements or the Montana Regents' College Preparatory requirements may be considered for an admission exemption. Priority consideration will be given to students who apply prior to:

- March 1 for Fall Semester.
- December 1 for Spring Semester.
- May 1 for Summer Session.

Freshman Admission

Freshman Application Process

1. Submit a completed UMW paper *Application for Admission*, or apply online at www.umwestern.edu and click on "Apply". Paper applications are available by contacting the Admissions Office.
2. Submit a \$30 non-refundable application fee.
3. Submit an SAT I or ACT test score report (writing subscores required).
4. Complete the High School Self-Report Form.
5. Submit proof of two measles, mumps, and rubella (MMR) immunizations.
6. Submit a final official high school transcript after graduation, or GED report.

When to Apply

Applicants are encouraged to apply:

- by July 1 for the upcoming Fall Semester.
- by October 15 for Spring Semester.
- by March 15 for Summer Session.

Students will not be considered for scholarships, financial aid, or housing, nor will they be eligible to register for classes, until their admissions application is processed and acceptance has been granted.

Full Admission

To be fully admitted as first-time, full-time undergraduates (without conditions or provisions), students must meet the following requirements:

A. Completion of the Regents' College Preparatory Program:

1. Four years of English: in each year the content of the courses should have an emphasis upon the development of written and oral communication skills and study of literature.
2. Three years of mathematics including Algebra I, Geometry and Algebra II (or the sequential content equivalent of these courses). Students are encouraged to take a math course in their senior year.
3. Three years of social studies which shall include global studies (such as world history or world geography); American history; and government, economics, Indian history or other third year courses.
4. Two years of laboratory science: one year must be earth science, biology, chemistry, or physics; the other year can be one of those

sciences or another approved college preparatory laboratory science.

5. Two years chosen from the following:
 - a. foreign language (preferably two years);
 - b. computer science;
 - c. visual and performing arts; or
 - d. career/technical education units which meet the Office of Public Instruction guidelines.

B. Demonstration of Mathematics Proficiency:

1. A score of 22 or above on ACT mathematics; or
2. A score of 520 or above on SAT mathematics; or
3. A score of 3 or above on the AP calculus AB or BC subject examination or a score of 4 on the IB calculus test; or
4. A score of 50 or above on the CLEP subject examinations in selected topics (college Algebra, college Algebra-Trigonometry, Pre-calculus, Calculus, or Trigonometry); or
5. Completion of a rigorous high school core including four years of mathematics in high school (Algebra I, Algebra II, Geometry & a course beyond Algebra II) and three years of laboratory science; or three years of mathematics including a course beyond Algebra II and four years of laboratory science, in addition to English, social studies, and electives as described in the Regents' College Preparatory program, with grades of C or better in all courses.

C. Demonstration of Writing Proficiency:

1. A score of 7 or above on the essay or 18 on the combined English/writing section of the optional writing test of the ACT; or
2. A score of 7 or above on the essay or 440 on the writing section of the SAT; or
3. A score of 3.5 or above on the Montana University System (MUS) writing assessment*; or
4. A score of 3 or above on the AP English language or English literature examination; or
5. A score of 4 or above on the IB language A1 exam; or
6. A score of 50 or above on the (CLEP) subject examinations in composition.

* **Montana Students Only:** A student receiving a score of 5.5 or higher on the MUS Writing Assessment will be issued a certificate of merit from the Montana Board of Regents for use in applying for college admission or scholarships.

D. General preparation as demonstrated through at least one of the following:

1. A composite score of at least 22 on the ACT or a score of at least 1540 on the total of mathematics, critical reading, and writing scores on the SAT; or
3. A high school grade point average (GPA) of at least 2.5; or
4. A ranking in the upper half of the school's graduating class.

Provisional Admission

When admitted under provisional status, first-time, full-time undergraduate students are subject to the following rules:

A. Provisional Admission Status based on Proficiency Standards and Operational Rules:

Students who have not yet demonstrated the ability to meet the mathematics and/or writing proficiency standards may be admitted without condition to a two-year degree program or admitted provisionally to a four-year degree program on any campus of the Montana University System. Operational Rules for the Provisional Admissions Status Created by Montana Board of Regents provide guidelines to assist students who have been provisionally admitted. If students cannot move their admission status from provisional to full early in their academic careers, they cannot continue in a four-year degree program.

B. Provisional Admission based on Mathematics Proficiency

A student whose mathematics score is 18-21 on the ACT or 440-510 on the SAT meets the mathematics requirement for admission without condition to any two-year degree program or provisional admission to a four-year degree program on any campus of the Montana University System (MUS).

A student whose mathematics score is below 18 on the ACT or 440 on the SAT may be admitted without condition to any two-year degree program of the MUS, but may not be admitted to a four-year degree program of the MUS.

Students may offer CLEP Subject Examinations in selected topics (College Algebra, College Algebra-Trigonometry, Pre-Calculus, Calculus, or Trigonometry) if their scores on the examination meet or exceed the ACE Recommended Score for Awarding Credit of 50.

Students may be excused from any testing in mathematics and deemed proficient if they complete a Rigorous High School Core including four years of mathematics in high school [Algebra I, Algebra II, Geometry, and a course beyond Algebra II, as outlined in the matrix attached to Board of Regents (BOR) Policy 301.15 as Appendix I] with grades of C or better in all courses.

C. Provisional Admission based on Writing Proficiency

A student who has not yet demonstrated the ability to meet the writing proficiency standards may be admitted without condition to a two-year degree program or admitted provisionally to a four-year degree program on any campus of the Montana University System.

D. Demonstration of Mathematics Proficiency after Provisional Admission:

1. Students denied full admission to a four-year program in the MUS because they do not meet the mathematics proficiency standard may prove that they have the appropriate proficiency in the following ways:
 - a. within 3 semesters or 32 credits of enrolling, earn a C- grade or better in intermediate algebra (M 095), or in a college course that is the prerequisite to a mathematics course that satisfies the general education program requirement described in BOR policy 301.10; or
 - b. earn a score of 22 or above on the mathematics portion of the ACT or 520 or above on the mathematics portion of the SAT; or
 - c. earn a score of at least 60 on the COMPASS Algebra exam, or an equivalent score on another placement exam used by the campus, upon enrollment; or
 - d. complete an A.A. or A.S. degree.
2. The above-described standards are also used to determine mathematics proficiency when students transfer from two-year programs or campuses to four-year programs or campuses.

Scores below 22 on the mathematics portion of the ACT or 520 on the SAT indicate placement into developmental mathematics courses.

3. Students whose mathematics scores are below 18 on the ACT or 440 on the SAT may be fully admitted to a two-year degree program of the MUS, but may not be admitted to a four-year degree program of the MUS.

E. Demonstration of Writing Proficiency after Provisional Admission:

1. Students denied full admission to a four-year program in the MUS because they do not meet the writing proficiency standard may prove that they have the appropriate proficiency in the following ways:
 - a. within 3 semesters or 32 credits of enrolling, earn a grade of C- or better in developmental writing (WRIT 095) or a composition course that is the prerequisite to the composition course that satisfies the general education program requirements described in BOR policy 301.10;
 - b. earn the required score on one or more of the writing assessments listed for admissions;
 - c. submit a letter to the Admissions Office documenting a disability that prevented him/her from adequately demonstrating proficiency in a test setting if no accommodation was provided at the time of the test; or
 - d. earn a score of at least 90 on the COMPASS writing skills exam; or
 - e. complete an A.A. or A.S. degree.
2. The above-described standards are also used to determine writing proficiency when students transfer from two-year programs or campuses to four-year programs or campuses. Scores below these thresholds indicate placement into developmental composition courses.

Enrollment Management Procedures

Campuses may apply admission review processes that 1) improve the likelihood of student success; 2) encourage rigorous college preparation among applicants; and 3) ensure balanced treatment of all student applications.

- A. For applicants who exceed every criterion of undergraduate admissions standards, campuses may establish facilitated admissions procedures, and may identify such students with special privileges, titles, or honors.
- B. For applicants whose transcripts and exam scores leave some question about the prospective student's success, additional documentation (such as essays, letters of recommendation, and/or portfolios) may be required before granting admission.

Exemptions

Exemptions are used to admit students under special circumstances and must be used judiciously:

A. Exemptions for First-time, Full-time Students:

Institutions may exempt up to 15% of first-time, full-time undergraduates from the requirements of this policy, with the exception of Completion of the Regents' College Preparatory Program, for students with special talents, minorities, and others who demonstrate special needs.

B. Categorical Exemptions:

The following categories of students are also exempt from the requirements of this policy:

1. non-traditional students (those who do not enter college for a period of at least three years from the date of high school graduation or from the date when they would have graduated from high school);
2. summer only students; and
3. part-time students taking seven or fewer college-level semester credits.

Non-Accredited High School or Home School Student Requirements

Students who complete their secondary education through home schooling or at an unaccredited high school may satisfy the requirement of high school graduation by doing one of the following:

1. High School Equivalency Certificate based on the GED exam.
2. Home School transcript listing all courses and grades signed by the teacher (the teacher can be a parent).

Transfer Student Admission

Transfer Student Requirements

(Note: International transfer students may be required to submit additional items—see page 10.)

1. Submit a completed UMW paper *Application for Admission*, or apply online at www.umwestern.edu and click on “Apply”. Paper applications are available by contacting the Admissions Office.
2. Submit a \$30 non-refundable application fee.
3. Submit final official transcripts from all colleges/universities previously attended.
4. Submit proof of two measles, mumps, and rubella (MMR) immunizations.

What the Student can Expect from Montana Western

Within ten working days after a student’s admissions file is complete with ALL information listed above, Montana Western will provide new applicants with written notification of the following:

1. Total credits accepted at Montana Western.
2. The GPA of the transfer courses that have been accepted.
3. The student’s classification and academic standing at Montana Western based upon accepted coursework.
4. A completed *Transfer Evaluation Sheet* indicating how accepted transfer courses will apply to the applicant’s UMW program of study, including the General Education Core.
5. A listing of remaining/uncompleted coursework that must be taken at Montana Western (applicants must provide or communicate education program goals to receive this information).
6. Admission decision.

When to Apply

Applicants are encouraged to apply:

- by July 1 for the upcoming Fall Semester.
- by October 15 for Spring Semester.
- by March 15 for Summer Session.

Students will not be considered for scholarships, financial aid, or housing, nor will they be eligible to register for classes, until their admissions application is processed and acceptance has been granted.

Transfer Student Policies

Credits Accepted for Transfer

The following policies guide Montana Western’s decisions as to whether transfer courses or credits are accepted for transfer:

1. Coursework and credits must be college-level and applicable to a degree at the transfer institution.
2. Courses must have been taken at a regionally accredited college/university in the United States. Coursework from foreign institutions is evaluated on a case-by-case basis; foreign credentials must be officially translated to English as part of the admissions process.
3. All transfer course credits will be converted to semester credits.
4. There are no limitations on transfer credits accepted if transferred from a four-year regionally accredited post-secondary institution or from a two-year technology institution. Note that no upper-level credit will be awarded for courses completed at a two-year institution.
5. Approved courses that are passed with grades “A” through “D-”, plus “P” or “S” grades, will be accepted for transfer to UMW, but only applicable courses graded “C-” or higher will be used to satisfy degree requirements at UMW. However, students transferring to Montana Western must maintain an overall GPA of 2.00 while at UMW.
6. Students who complete a General Education program at a unit of the Montana University System and those who complete the MUS General Education Core are deemed to have completed the General Education program at UMW.

Eligibility for State-Supported Scholarships

Only students who have completed the High School Rigorous Core program shall be eligible for Regents High School Honor Scholarships. Students who have completed the College Preparatory program may be eligible for other state-supported scholarships, tuition waivers, or grants-in-aid awarded on the basis of academic achievement. In unusual circumstances, this provision may be waived for students who graduated from high school three or more years before applying.

Credits Used to Meet Requirements (Transfer Credits)

The following general policies guide Montana Western’s decisions as to how an accepted transfer course can be used to meet requirements for UMW degrees or programs:

1. To be applied to a degree at UMW, the transfer course content must be similar or equivalent to the required UMW course, or the transfer course must be an acceptable substitute or elective.
2. The number of course credits must be similar (e.g., three vs. four credit differences are acceptable, two vs. four credits are not). Students may take Independent Study or Directed Study to make up credit deficiencies.
3. Course level must be similar (e.g., a 100/200 level course from the transfer institution may not be used to meet a 300/400 level requirement at UMW).
4. Courses must be successfully completed with grades of “C-” or better; grades of “S” and “P” are accepted but with limited application; department and/or division approval is required.
5. Some courses may need further evaluation as to their applicability toward a given program; substitution/waiver forms should be used to document department and division approval of such applicability. Courses subject to this further review and approval will need more time for certification than the ten working days.
6. All transfer students must successfully complete at least one-fourth (25%) of the coursework required for a degree while in residence at UMW. A majority of courses required in the Major and/or Minor must be taken at UMW and generally these courses must be the last courses taken prior to graduation (see Degree Residency Requirements section of this Catalog).
7. No student will graduate from UMW with less than a 2.0 institutional GPA; however, some degree programs require a higher minimum GPA.
8. The UMW Registrar will record only summary transfer course data on a transfer student’s UMW academic record. “Summary” information includes the name of the transfer institution, dates of enrollment, total college-level degree-applicable credits earned, plus attempted GPA hours, grade points earned, transfer institution GPA, and total hours attempted.
9. Only the UMW GPA appears on a student’s transcript, although total hours earned will reflect all credits earned at UMW and those accepted from other colleges attended. All courses attempted at all institutions attended will be used to calculate a cumulative GPA for purposes of determining eligibility for top student in the UMW graduating class, athletic eligibility according to NAIA or NIRA regulations, and/or instances where third parties authorized to have such information request such a calculation.

10. Limitations on Transfer Credits:

Maximum Transfer Credit Applied		
UMW Degree	If transferred from 4-Year College/University	If transferred from 2-Year/Technology School (¹ No upper-level credit awarded)
Associate Degree (64 credits)	48 semester credits	48 semester credits
BAS, BA, Non-Education BS Degree (120 credits)	90 semester credits	60 semester credits ¹
BS Education Degree (128 credits)	98 semester credits	64 semester credits ¹

11. Transfer applicants who complete a general education core at one of the units of the Montana University System, or those who complete the MUS General Education Core are deemed to have satisfied the general education requirements for a degree (Associate or Bachelor) at UMW.
12. Outdated (Transfer) Coursework: “Acceptable” transfer courses that are more than five years old at the time of admission to UMW, at the discretion of the University, may be excluded from consideration in meeting major/option, minor/related area, or professional requirements for a degree. Acceptable transfer courses that are more than 15 years old at the time a student is admitted to UMW, at the discretion of the

University, may be excluded from consideration in meeting general education or elective requirements for a degree (MUS Board of Regents Policy 301.5.1).

Montana University System (General Education) Core Curriculum

New students transferring to UMW from any of the units of the Montana University System (MUS) or one of the three public community colleges in Montana (Flathead Valley Community College, Dawson Community College, Miles Community College) and who have satisfactorily completed a minimum of twenty (20) credits of campus-specific general education courses (distribution requirements considered) prior to transferring to UMW can elect to complete the MUS (General Education) Core Curriculum in lieu of the UMW General Education program. Information on the MUS core can be viewed online at <http://mus.edu/transfer/gened.asp>.

New transfer students who are eligible for this option should communicate their choice of General Education program (UMW or MUS) at the earliest possible time so that UMW personnel (faculty advisors and Advising Office staff) may provide the most accurate and reliable degree advice possible.

Appeals – Transfer of Credits

Appeals regarding the acceptance of transfer credits should be directed to the UMW Registrar. Questions or appeals concerning the application of courses or credits to a specific degree or program of study should be directed to the Director of Student Success.

Residency Classification

The Montana University System classifies all students and applicants for admission as either in-state or out-of-state for college/university fee payment purposes. The basic rules for making this classification are found in Board of Regents Policy available at the Registrar's Office. Determination of student residency is based on information provided on the *MUS Residency Questionnaire* and supporting documentation supplied by the petitioner. With certain exceptions, in order to be eligible for in-state status a person must be one of the following:

1. a lifelong resident of Montana.
2. independent and complete a 12-month waiting period¹ during which one must reside in the state and demonstrate a bona fide intent to become a Montana resident.
3. a recent graduate of a state-approved high school in Montana and have attended the entire senior year there.

¹It is presumed that an individual not eligible for in-state status under Board of Regents Policy who is registered for more than six semester credits at any post-secondary educational institution in the State of Montana is present in the State primarily for educational purposes, and such periods may not be applied to the 12-month waiting period referred to previously.

The 12-month waiting period does not begin until some act indicative of intent to establish residency is taken. Mere presence in Montana and enrollment at a unit of higher education will not serve to start the 12-month waiting period. Sufficient acts of intent include:

1. registering to vote in Montana.
2. obtaining a Montana driver's license.
3. licensing/registering a vehicle (owned by the applicant) in Montana.
4. purchasing a home or primary residence in Montana.
5. filing a resident Montana tax return on all earned income.

One act will start the waiting period; however, it is a preponderance of actions that indicates intent to become a resident.

If none of these indicators is available to the student, the student may file an *Affidavit of Intent to Establish Residency* form in order to begin the 12-month waiting period.

After the 12-month period has begun, the individual is expected to act in a manner consistent with Montana residency. Actions deemed in contradiction with the claim of Montana residency may result in classification as a non-resident for Montana University System fee payment purposes. Examples of such contradictory actions include:

1. voting absentee in another state.
2. receiving financial aid based on non-Montana residency such as a state scholarship or guaranteed student loan from another state or participation in an interstate exchange program [it is presumed that a student attending a unit of the Montana University System under the Western Undergraduate Exchange (WUE), the National Student Exchange (NSE), and other exchange programs are deriving a financial benefit from another state based on non-Montana residency and therefore is not eligible for Montana residency while a student].
3. leaving the state of Montana and being away for long periods of time (20 days or more) during the 12-month residency establishment period.

In-state status cannot generally be earned via marriage. Each individual must qualify for in-state status separately.

The initial residency classification may be appealed. Although students are permitted to petition for reclassification at any time, in order to be eligible for in-state status for fee purposes it is necessary to meet the requirements for such status before the first instructional day of the school semester for which the status is sought. Information regarding appeals of residency classification is contained in the Board of Regents Student Guide to Montana Residency Policy. This guide and the *MUS Residency Questionnaire* petition for in-state status are available online at <http://mus.edu/residency/default.asp>.

International Student Admission

International Student Requirements

Montana Western welcomes the cultural and academic stimulation international students bring to its campus. Students from other countries who have completed a secondary school are considered freshmen; those who have completed college-level coursework equivalent to 12 credits or more beyond secondary school are considered transfer students.

The following credentials are required in the Admissions Office for international student applicants:

1. **Application Form**—available from the Admissions Office or online at www.umwestern.edu/admissions.
2. **Application Fee**—a \$30 non-refundable fee is required of all applicants. The fee must be in U.S. currency, and must be paid before the application will be processed. Checks should be made payable to UMW.
3. **English Language Proficiency**—citizens of countries other than Australia, Canada, England, Ireland, New Zealand, Scotland, or Wales are required to certify English proficiency by providing an official Test of English as a Foreign Language (TOEFL) score report. A minimum

score of 500 on the paper-based test, 173 on the computer-based test, and 61 on the internet-based test is required. Any questions regarding TOEFL should be directed to TOEFL, P.O. Box 899, Princeton NJ 08541. UMW does not offer an English as a Foreign Language class. Results of the SAT II: English Language Proficiency Test (ELPT) may be used in lieu of TOEFL, with a required minimum score of 950.

4. **Academic Credentials**—applicants must submit a certified copy of secondary school transcripts or the equivalent, and any college or upper-level transcripts. International students who have attended institutions outside the United States or Canada must request an evaluation of Academic Credentials from a foreign credential evaluation service. Evaluation of credit may not reflect actual college credits accepted by UMW. Allow 8-12 weeks for the evaluators to complete the evaluation process. Foreign credential evaluation services charge a fee for credit evaluation. Contact the following services for information and applications for credit evaluation:

ECE (Educational Credential Evaluators, Inc.)
PO Box 514070
Milwaukee WI 53203-3470
FAX: 414-289-3411
www.ece.org (downloadable applications for evaluation)

Office of International Education Services
AACRAO
202-293-9161
FAX: 202-872-8857
www.aacrao.org

5. **Statement of Financial Support**—applicants must submit a certified statement from a bank or sponsor verifying that adequate financial resources are available to pay the estimated expenses for the first year and thereafter. The estimated expenses amount, available from Admissions, is adjusted annually.
6. **Medical History Report**—each applicant must provide a physician-validated record showing immunization for diphtheria, tetanus, polio,

measles, mumps, rubella (two doses of measles, mumps, and rubella vaccine after first birthday), and a recent skin test for tuberculosis. Each of these must be identified on the record in English and must be signed by a licensed physician or registered nurse.

7. **Proof of a valid visa.**

If admitted, the applicant will receive an international student acceptance packet containing a letter of acceptance, an evaluation of transfer credit, and an I-20 form needed to obtain an F-1 student visa.

When to Apply

All of the above requirements must be received by Admissions according to the following schedule:

- by March 1 for Fall Semester.
- by October 1 for Spring Semester.
- by January 1 for Summer Session.

Additional Admission Categories

Former Student Re-Admission

Any former UMW student who did not attend UMW the preceding year may be readmitted after completing the following requirements:

1. Submit a completed *Application for Readmission*, available from the Registrar's Office or online as a "printable form".
2. Submit official copies of transcripts from all institutions attended since last enrolled at UMW.
3. Proof of measles, mumps, and rubella (MMR) immunization may be required if initial attendance at UMW was three or more years previous to request for readmission.
4. Meet the admission requirements of a transfer student if the student attended another institution since last registering at UMW.
5. An application fee is not required unless a student is changing status to a second degree student.

Non-Degree Student Admission

Applicants who are unable to meet all the requirements for admission, but who are not candidates for a degree, may be considered for admission without meeting the usual entrance requirements if they provide satisfactory evidence that they are academically prepared to pursue the special courses desired. All first-time UMW students must provide proof of two immunizations for measles, mumps, and rubella (MMR) and pay the one-time non-refundable \$30 application fee. Other requirements may also be imposed.

A non-degree student must acquire status as a regular student and become a candidate for graduation by maintaining good standing academically and completing all entrance requirements for admission.

Dual Credit Admission

In collaboration with several Beaverhead and Madison County high schools, UMW has developed interlocal agreements that allow 11th and 12th grade students, as defined by the school district, dual enrollment in high school and select college courses. Students must be fully admitted to Montana Western. Dual credit students may enroll in a maximum of eight credits per semester.

To apply for admission, students must submit:

1. a completed *Application for Admission* form.
2. a \$30 non-refundable application fee.
3. an official high school transcript, sent directly from the high school to the UMW Admissions Office.
4. proof of two measles, mumps, and rubella (MMR) immunizations.

To register for dual credit courses, students must:

1. be enrolled in a school district with an interlocal agreement with UMW.
2. obtain a signature from a parent or guardian that acknowledges financial responsibility for payment of college tuition and fees.
3. obtain a signature from a high school official attesting to the student's maturity and academic ability.

Early Admission—Concurrent High School/College Enrollment

The UMW Early Admission program allows students who have not yet graduated from high school to be considered for conditional admission. As admission is very selective, Early Admission applicants must demonstrate academic ability and general maturity to warrant such acceptance. Candidates must be able to handle university-level coursework while at the same time continuing completion of high school graduation requirements. Applicants must be juniors or seniors in high school to be considered for Early Admission. Each application is considered on an individual basis.

To apply for Early Admission, candidates must submit:

1. a completed UMW paper *Application for Admission* form, or apply online at www.umwestern.edu/admissions and click on "Apply". Paper applications are available by contacting the Admissions Office.
2. a \$30 non-refundable application fee.
3. a letter of recommendation from the high school principal or other high school official attesting to the student's academic ability and general maturity.
4. an official high school transcript, sent directly from the high school to the UMW Admissions Office.
5. proof of two measles, mumps, and rubella (MMR) immunizations.
6. written approval from the applicant's parents/guardians.

Early Admission students may enroll in a maximum of eight credits per semester. Final grades for Early Admission students are withheld pending receipt by UMW of a final high school transcript verifying graduation from high school.

Dual Admission with Flathead Valley Community College

Students may apply for joint admission to UMW and Flathead Valley Community College (FVCC) using a form available from FVCC. Students accepted for dual admission will not be required to pay an additional application fee when transferring to UMW if criteria for transfer are met under the agreement. These criteria include having a minimum grade point average of 2.00 from all colleges or universities previously attended and an Associate Degree or 60 semester credits from FVCC. Students admitted to the dual admission program are entitled to obtain a UMW student identification card that entitles them to certain privileges at Montana Western, such as library use. These privileges begin as soon as the student enters FVCC under the dual admission program.

The Montana University System Affiliate Students

Montana Western waives the undergraduate application fee for students who paid the undergraduate application fee as part of an admissions application to or attendance at a Montana University System campus. An official transcript from the other MUS unit serves as a basis for waiving Montana Western's undergraduate application fee.

Previously Earned Credit

Credit for Nontraditional Learning Experiences

UMW has established specific policies that govern the recognition and awarding of credit for learning experiences that occur outside the traditional college classroom. As part of the admissions application process, prospective students should provide official documentation that identifies and describes the kind of learning experience they have completed (i.e., AP or CLEP score reports, military training completion certificates, Tech Prep contracts, etc.). Enrolled students attempting or completing a nontraditional learning program should provide such documentation upon completion of the learning program. Individuals who are considering earning credit via nontraditional methods (with the idea of having those program credits meet part of a UMW degree requirement) should consult with all appropriate UMW officials (Academic Department Chairs, Advising Office officials, Registrar, etc.) before committing resources.

Advanced Placement (AP) Program

Credit may be earned by satisfactory completion of the Advanced Placement Tests from the College Entrance Examination Board. Students must provide official AP exam score reports. For more information regarding minimum scores and application of AP exam credits to degree requirements, contact the Registrar's Office, (406) 683-7371.

College Level Examination Program (CLEP)

Credit may be earned for satisfactory completion of the College Entrance Examination Board College Level examinations. Official score reports must be sent from the College Board directly to the UMW Admissions or Registrar's Office. Credit for specific CLEP Subject Examinations and minimum score requirements are outlined in the UMW CLEP policy available at the Registrar's Office. Credits received through CLEP will be issued "P" (Pass) grades. For more information, contact the Registrar's Office.

Military Service Training Credit

UMW may grant credit for selected and successfully completed learning experiences acquired as part of United States military training programs. Such training must be college level as recommended by the American Council on Education in the "Guide to Evaluation of Educational Experiences in the Armed Services." Application of

military training credits to specific UMW program requirements is contingent upon department faculty approval. Individuals seeking credit for military training must submit a letter to the Registrar's Office requesting evaluation of military experience, together with official documentation (certificates of completion) of their formal military training.

Tech Prep Program

Tech Prep is a program negotiated between UMW and specific high schools whereby certain high school courses may earn university credit at UMW. Written agreements between area high schools and Montana Western specify which courses can be articulated and outline minimum competencies and levels of knowledge and achievement that must be met to earn credit. To earn credit, students must matriculate at UMW within two years of completion of the courses that meet Tech Prep requirements. Tech Prep credits do not meet residence requirements and the program is considered a nontraditional method of earning credit. Other limitations may apply. See Tech Prep Policy and appropriate high school/UMW agreement, or contact Montana Western's Tech Prep Coordinator, (406) 683-7011.

Course Challenge Exams

Students initiate the course challenge exam procedure by contacting the Chairperson of the Department through which the course is to be challenged. Department Chairs, or regular UMW faculty, must agree to oversee the course challenge process. Details of the course challenge (exam time and place, evaluation criteria, and requirements, etc.) must be documented and agreed to by the student, the supervising faculty, and the Provost. Upon final approval, the student enrolls in the course to be challenged and pays all fees. Supervising faculty administer challenge exams and determine whether students earn credit. Courses attempted via institutional challenge exams are graded "Pass/Fail" and become part of the student's permanent academic record. Copies of the course challenge petition and related documentation are filed in the Registrar's Office. Students may not challenge college courses they have previously attempted (e.g., failed, audited, dropped). UMW officials will determine equivalency/similarity of transfer courses. Only degree-pursuing students enrolled in a regular curriculum may petition to challenge a course at UMW. Regular tuition and course fees will be charged upon enrollment in a course to be challenged.

Additional Admission Information

Immunization Requirements

The Montana School Immunization rules reflect the requirements of the State Immunization Law (MCA 20-5-401). Current immunization recommendations related to UMW and other post-secondary students state that "All non-foreign students entering any institution of the Montana University System born after December 31, 1956, must show proof of immunization against measles and rubella on or after their first birthday and after December 31, 1967."

1. Two doses of measles vaccine are required for students entering a post-secondary school in Montana. This only affects those post-secondary students who are in a degree program or who are registered for more than one-half of a full-time credit load normal for that school. Only MMR (measles/mumps/rubella) vaccine is acceptable for immunizations given after June 11, 1993, to meet the rules for vaccination against measles or rubella.
2. A conditional enrollment period is allowed for students who arrive at school and lack even one dose of measles vaccine. These individuals are allowed to attend classes after they receive a first dose of MMR vaccine and are conditionally enrolled at UMW until the start of the next term.
3. Applicants born prior to January 1, 1957, are exempt from immunization requirements if they provide documentation of age as described above.
4. Requests for exemptions to the immunization requirements will be reviewed by the Admissions Office.

General Equivalency Degree (GED)

A student may be admitted to UMW upon presentation of an official high school equivalency certificate issued by the Montana Superintendent of Public Instruction under authorization of the Board of Public Education. The high school equivalency certificate based on the GED examination may not be used to satisfy the requirement of high school graduation until after the student's high school class has graduated.

Further information regarding requirements and test center locations in Montana may be obtained from the Office of Public Instruction, PO Box 202501, Helena MT 59620-2501.

Western Undergraduate Exchange (WUE)

Montana Western participates in the Western Undergraduate Exchange, a program of the Western Interstate Commission for Higher Education and other western states. Through WUE, certain non-Montana resident students may enroll at UMW, paying resident tuition plus 50 percent of that amount, plus other fees that are paid by all students.

Because Montana Western participates, residents of Montana may enroll under the same terms in designated institutions and programs in other participating states. WUE states include Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming.

Information about WUE programs available at Montana Western may be obtained from the Admissions Office. Montana residents interested in information about WUE programs in other states may contact one of the following:

Certifying Officer for Montana
WICHE Student Exchange Program
2500 Broadway
Helena MT 59620-3101
(406) 444-6570

WICHE Student Exchange Program
PO Drawer P
Boulder CO 80301-9752
(303) 497-0210

General Information About Montana Western

Nature of the Institution

The University of Montana Western, an innovative four-year public institution, is located in Dillon and Beaverhead County in southwestern Montana. Montana Western is a comprehensive university with programs emphasizing active, hands-on experiential learning. To better facilitate this type of learning, Montana Western transitioned to Experience One block scheduling in fall 2005. Under this system, students typically take a single course at a time, three hours per day, usually four courses per semester. Each course lasts for 18 instructional days over three and one-half weeks.

Excellence in undergraduate instruction is Montana Western's primary goal, enhanced by close student-faculty relationships, fine teaching facilities, and an exceptional academic environment. Public service and research by faculty, staff, and students contribute to the broader mission of the institution. Montana Western has programs in the arts and sciences, teacher education, early childhood education, business, equine studies, natural horsemanship, and tourism.

Constituencies Served

The primary reason for Montana Western's existence is to serve the educational needs of Montana citizens, businesses, and other organizations. Montana Western serves people of all ages—from infants to senior citizens—through programs offered on its campus by the university or by other affiliated organizations. Students enrolled in UMW courses and programs are both traditional-aged recent high school graduates and nontraditional-aged students. Increasing numbers of out-of-state students add to campus diversity and greatly contribute to making Montana Western a more interesting place to obtain a university degree while participating in abundant extracurricular activities.

Institutional Philosophy

Montana Western believes learning is best accomplished by having students engaged in authentic learning activities within each academic discipline. With the skilled and knowledgeable guidance of its professors, UMW's academic programs feature many opportunities for field experiences, labs, projects, and internships.

By fostering a hunger for knowledge, appreciation for differences in people and ideas, and pride in creative and technical achievements, UMW provides a foundation for lifelong personal growth and productivity. Montana Western's philosophy fosters well-rounded graduates who are sensitive yet skeptical, skillful in special areas yet reflective about general themes, and aware of their complex world and committed to its improvement. Graduates are prepared to be good citizens as they contribute positively to social structure and the economic vitality of the communities in which they reside.

Accreditation

The University of Montana Western is a member of:

The American Association of State Colleges and Universities (AASCU).
The American Association of Colleges for Teacher Education (AACTE).

The University of Montana Western is accredited by:

The Northwest Commission on Colleges and Universities (NWCCU).

The University of Montana Western teacher education programs are accredited by:

The National Council for the Accreditation of Teacher Education (NCATE).

The University of Montana Western has received specialized accreditation for its Bachelor of Science and Bachelor of Applied Science degree programs in business through:

The International Assembly for Collegiate Business Education (IACBE), Olathe, Kansas.

History of Montana Western

The Act of Congress under which the State of Montana was admitted to the Union set aside 100,000 acres of the public domain for the establishment and support of a State Normal School in 1893. The Legislature of 1897 created an Executive Board, which selected a president and faculty. The first session of the school opened September 7, 1897.

In 1903, the Legislature changed the name of the institution to State Normal College. On April 6, 1931, the State Board of Education approved the four-year course and authorized conferring the degree of Bachelor of Education. On December 8, 1947, the State Board of Education changed the name of the degree to Bachelor of Science in Elementary Education. Effective July 1, 1949, the Legislative Assembly changed the institution's name to Western Montana College of Education.

In April 1954, the State Board of Education authorized the granting of a Bachelor of Science degree in Secondary Education and the degree of Master of Science in Education. The 1965 Montana Legislature changed the name of the institution to Western Montana College effective July 1, 1965.

At the January 1987 meeting of the Board of Regents of the Montana University System, the Board took action to administratively merge Western Montana College with The University of Montana. Montana Western became a four-year affiliated campus of The University of Montana in July 1988, and the name of the campus became Western Montana College of The University of Montana. A Bachelor of Arts degree with multiple option areas was authorized by the Board of Regents in 1991 with five thematic areas: Environmental Sciences, Literature & Writing, Pre-professional Health Sciences, Social Science, and Visual Arts.

In January 2001, the Board of Regents authorized a name change to the University of Montana Western, with approval granted by the 2001 Montana Legislature effective July 1, 2001. With this change, UMW gained university status in recognition of the breadth and strength of its academic programming.

A Bachelor of Science degree in Business was approved and an Associate of Applied Science degree in Equine Studies was conditionally approved by the Board of Regents beginning fall semester 2002.

An Associate of Applied Science in Education Studies, an online Bachelor of Science in Early Childhood Education, and a Library Media K-12 Minor offered in collaboration with The University of Montana-Missoula were approved by the Board of Regents beginning fall 2003.

An Associate of Applied Science degree in Natural Horsemanship was approved effective fall 2004. Beginning fall 2005, Montana Western began offering a Bachelor of Science degree in Natural Horsemanship and revised the BA: Pre-Professional Health Sciences Option to a Biological & Biomedical Sciences Option in the Bachelor of Arts, which was then revised to a Biology Option effective fall 2006.

Montana Western began Experience One scheduling for all first-time baccalaureate-seeking freshmen in fall 2004, with the full transition to Experience One occurring in fall 2005. Effective fall 2006, the Board of Regents approved an Earth Science Major in the Bachelor of Science Secondary Education degree, an Environmental Interpretation Option in the Bachelor of Arts degree, and granted full approval for the AAS in Equine Studies. Effective fall 2007, the Health & Human Performance K-12 Major in the Bachelor of Science Secondary Education was revised to a Physical Education & Health K-12 Major. Effective fall 2007, the BS: Business degree was revised to BS: Business Administration, and a new BA Option in Mathematics was approved.

Effective fall 2011, the Board of Regents approved major revisions to the university's bachelor's degree offerings. These included: converted the BA degrees in Biology, Environmental Interpretation, Environmental Science, and Mathematics into BS degrees; changed the BA: Literature & Writing to BA: English; changed the BA: Social Science to content area BA degree majors in Anthropology & Sociology, Global Politics, Interdisciplinary Social Science, Modern History, and Psychology; added a non-teaching BS degree in Health & Human Performance; converted the BS: Secondary Education degree to content area degrees (BS: Art Education K-12, Business & Computer Applications Education, Industrial Technology Education, Music Education K-12, and Physical Education & Health K-12); and, in combination with other BA and BS degrees, established double majors with Secondary Education (BA: English & Secondary Education, BA: Interdisciplinary Social Science & Secondary Education, BA: Modern History & Secondary Education, BS: Biology & Secondary Education,

BS: Earth Science & Secondary Education, BS: General Science Broadfield & Secondary Education, and BS: Mathematics & Secondary Education).

Location

With a population of 5,500, Dillon is situated in the beautiful Beaverhead Valley. The town is the center of ranching, mining, and recreational activities. Winters are historically mild and summers are pleasant with cool nights. The valley is noted for its typically crystal clear air and blue skies with abundant snow in the surrounding mountains but relatively little snow or rain in the valley.

Dillon provides a safe, small-town environment for Montana Western. Community concerts, theater, and other programs serve cultural needs of the community. Also available are churches of various denominations, public library, YMCA, two golf courses, parks, hospital, and social and fraternal organizations. Many nearby recreational areas provide opportunities for nature study, picnics, hiking, horseback riding, hunting, fishing, snowmobiling, and skiing.

The area is rich in historical interest. The Big Hole Battlefield, Bannack (first territorial capital), and Virginia City (second territorial capital), are within easy driving distance. The Lewis and Clark Expedition's travels through the Beaverhead Valley in 1805 are commemorated at Clark's Lookout State Park, located one mile north of Dillon. One of the sources of the Missouri River is found in a tiny stream emerging from a spring in the area's hillside. A museum, developed by the Beaverhead Museum Association, houses many relics from the region's early days.

Located in the southeastern residential section of Dillon, the beautiful campus consists of well-developed lawns, shade trees, walks, and historical and picturesque buildings. A visitor to the Montana Western campus enjoys an unsurpassed panoramic view of southwest Montana, with several beautiful mountain ranges punctuating the surrounding landscape and a wide variety of recreational activities for the outdoor enthusiast located within a short distance.

The campus is convenient in terms of physical space, layout of facilities, and proximity to community resources, providing easy access to friendly student-centered faculty, personnel, and services. Montana Western is committed to fostering a sustainable environment and is heated by biomass. Recent renovations including energy efficiency projects and a restoration of historic Main Hall contribute to UMW's emerging role as an innovative regional interdisciplinary arts and sciences university while maintaining its tradition of excellence in teacher education, business, two-year associate degree, and certificate programs.

Code of Conduct

The Student Code of Conduct, embodying the ideals of academic honesty, integrity, human rights, and responsible citizenship, governs all academic work and student behavior at Montana Western. Student enrollment presupposes a commitment to the principles and policies embodied in the Code, which sets forth standards of acceptable student conduct, disciplinary sanctions for breach of the standards of student conduct, and procedures to be followed in adjudicating charges of both academic and non-academic misconduct. The Student Conduct Code is published in the Student Handbook and administered by the Dean of Students. The Student Handbook is available on the Student Affairs website: <http://my.umwestern.edu/studentlife/>.

Rights & Responsibilities

Statement of Responsibility

The Montana Western community values personal and academic freedom and embraces the ideals of academic honesty and integrity. All members of the campus community have the personal responsibility to promote an atmosphere of civility in which the free exchange of ideas and opinions can flourish. This is accomplished by learning from individual and collective differences and by respecting every human being.

Equal Opportunity

Students are assured the protection of all rights guaranteed by the Montana and United States Constitutions. Montana Western is committed to provide all persons an equal opportunity for education, employment, and participation in University activities without regard to the individual's race, color, religion, national origin, sex, age, marital status, or handicap. The University has established a discrimination grievance procedure for any student or applicant for employment or admission who claims to have been unlawfully

discriminated against because of any University regulation, policy, practice, or the official action of any University employee.

Students alleging discrimination at Montana Western are encouraged to contact the Dean of Students Office, (406) 683-7565, or the Affirmative Action Officer, Business Services, (406) 683-7101, within 60 calendar days of the alleged discrimination.

Disabilities: Students with disabilities seeking services from the University should notify the Dean of Students Office as soon as possible regarding their disability so that services and access can be determined in a timely fashion.

Understanding One's Rights & Responsibilities

Students are responsible for making informed enrollment decisions and for understanding and complying with the material that details policies and standards of student conduct in this Catalog and in the Student Handbook. Students are also held responsible for complying with policies and procedures governing all aspects of enrollment at Montana Western including registration, grading, class schedule changes (dropping, adding, withdrawing), class or credit load, financial aid, enrollment and fee payment dates and deadlines, graduation requirements, for example.

Students are responsible for determining and communicating their education goals. Montana Western encourages students to provide this information when filing their admissions application or as soon as possible following their initial enrollment at UMW. Providing this information will aid University officials in assigning appropriate advisors and in helping students select courses that meet requirements for their education goal, make steady academic progress, and ultimately graduate in the shortest time possible.

Students are responsible for notifying the University regarding changes to their address and telephone information. Contact the Registrar's Office, (406) 683-7371.

Enrollment & Attendance (UMW Policy 203.1)

Students at Montana Western enroll on a semester basis and are expected to register (including paying tuition and fees) prior to the start of the term for all classes they plan to complete during that term and, once registered, to actively participate in learning activities associated with courses in which they are enrolled.

Regular class attendance is critical to student success. Faculty determine requirements for satisfactory completion of courses they teach and usually specify attendance policies at the start of each course. Students are responsible for knowing attendance and course completion requirements for each class in which they are officially enrolled. Students are encouraged to communicate regularly with instructors concerning academic progress and attendance. Students who register for a course and fail to attend will receive an "F" as a final grade. Students must officially drop the course(s) or withdraw from UMW on or before the published deadline for these actions to avoid receiving failing grades in these situations.

Students who register for a course but fail to attend the first two class sessions may be required by the instructor to drop the course or receive an "F". This policy allows faculty to determine class vacancies early in a course, and add other students into classes that otherwise appear to be filled. Non-attending students who are asked to drop/withdraw are responsible for completing the paperwork necessary to officially drop the class before the published deadline. Non-attending students who fail to file the necessary paperwork to drop a class will receive an "F" as a final grade.

Students are encouraged to communicate regularly with instructors concerning academic progress and attendance. Students who know they will be absent from a class should notify the instructor in advance.

Student Records & Release of Student Information

UMW maintains the following records pertaining to student enrollment:

Admissions Office--temporarily maintains admission-related records submitted by prospective students, including high school transcripts and/or high school equivalency (GED) reports, student immunization records, assessment test score reports, college transfer transcripts, application forms, financial statements of international students, and copies of I-20 forms.

Records of admitted students are transferred to the Registrar's Office during the student's first term of enrollment. These records (proof of immunization, high school/college transcripts, ACT/SAT scores) become part of the student's enrollment file maintained in the Registrar's Office.

Business Services--maintains records of all charges assessed, amounts paid by and owed to UMW by students and former students, as well as information that indicates the authority by which Montana Western is able to charge for educational services rendered. Student work-study payroll records are filed in Business Services. Information on the student insurance program is available at Business Services and the Dean of Students Office.

Faculty Offices--faculty maintain records, subject to statute of limitations governing such records, relating to individual student achievement in courses they teach as well as copies of course syllabi and outlines of course requirements and expectations. Advisee records are also kept in faculty offices.

Financial Aid Office--maintains records submitted by students, prospective students, and parents of students/prospective students who apply to Montana Western for federal, state, local and institutional financial aid, and Veterans benefits. Copies of federal, state, Montana University System, and UMW policies and regulations governing the awarding and administration of financial aid programs are available for review by interested parties.

Registrar's Office--maintains permanent academic records, files of academic-related information on each student, and copies of the information students submit as part of their initial application for admission to UMW, including proof of immunization. A complete text of the Family Educational Rights and Privacy Act of 1974 as Amended (FERPA) is available at the Registrar's Office. Montana residency records and publications, NAIA and NIRA athletic eligibility information for Montana Western's athletic team members, and summary enrollment information is also on file.

Dean of Students Office--maintains housing records of students living on campus, records pertaining to special needs students (students with disabilities), records of student disciplinary matters, and records of campus counseling matters. Information on the student insurance program is available here.

Traffic Control Office-- maintains records pertaining to authorized campus parking and parking violations, and is responsible for ensuring that all federal, state, municipal, and UMW parking regulations are met.

Third Party Requests for Enrollment Verification

The University of Montana Western (Federal School Code: 002537) has contracted with the National Student Clearinghouse (NCS) to provide enrollment verification information of current and former UMW students. Hundreds of colleges and universities across the United States have signed agreements with NSC to provide these services.

Requests for current and former UMW student enrollment verification information should be directed to the National Student Clearinghouse (see contact information below). This agency will provide the information needed. All third-party requests for enrollment verification information sent directly to UMW will be forwarded to the Clearinghouse. Student enrollment verifications may be written, faxed, e-mailed, called in, or mailed. Requests should include adequate

student identification as well as specific time periods for which attendance/enrollment information is desired. Providing specific information will facilitate the enrollment verification process.

The Clearinghouse will only verify whether a specific student is or was enrolled. NCS is not able to provide student grade or grade point information. Also, the Clearinghouse is unable to verify enrollment of students who ask to have directory information blocked, according to the Family Educational Rights & Privacy Act (FERPA). In such cases, the student must provide Montana Western with a specific written request for information release.

Students and/or third parties should direct questions regarding enrollment verification to the UMW Registrar's Office, (406) 683-7371.

National Student Clearinghouse:

Address: 2191 Fox Mill Road, Suite 300
Herndon VA 20171-3019
Phone: (703) 742-4200, 8:30 am-5:15 pm EST
Fax: (703) 742-4239
Website: www.studentclearinghouse.org
E-mail: enrollmentverify@studentclearinghouse.org

FERPA--Records Release & the Family Educational Rights & Privacy Act of 1974

Under the provisions of the Family Educational Rights and Privacy Act of 1974 as Amended, all student records and information, except for certain designated "directory information" and the award of certain honors, are to be regarded as confidential and access restricted to the student and other authorized personnel. Confidential information may be released to others only by written permission of the person concerned or by subpoena issued by a court or tribunal of competent jurisdiction. The student must be notified of any release of information by subpoena.

A student's academic record or transcript may be released only when requested by the student in writing, or by applicable subpoena issued by a court or other tribunal of competent jurisdiction.

The law allows release of certain personally identifiable student information, known as "directory information," to third parties without student consent. However, a student may request that all of the items identified as directory or public information, with the exception of name, be withheld and considered restricted information by filing a written request at the UMW Registrar's Office. A request for nondisclosure will be honored by the institution and remain active on a semester-by-semester basis. Students must notify the institution of their desire for continued directory records restriction. The following items of student information are considered "directory information" and may be released to third parties:

- name, campus address, home and permanent address, telephone, email address.
- age, date, place of birth.
- name and address of parents.
- major field of study, including department or program in which the student is enrolled.
- classification as a freshman, sophomore, junior, senior, or graduate student, etc.
- participation in officially recognized activities and sports.
- high schools attended, high school graduation date.
- weight, height, and pictures of athletic team members.
- class schedules, dates of attendance and graduation, degrees received.
- honors and awards received.
- the most recent educational institution attended by the student.
- individual student class schedules.
- photographs of students.

Release of directory information is handled with discretion. Use of this information for commercial solicitation purposes will generally be denied, with the exception under the Solomon Amendment that institutions are required to provide directory information to United States

Military recruiting offices. Fees may be charged for gathering and printing student directory information.

FERPA Annual Notice to Reflect Possible Federal and State Data Collection and Use

As of January 3, 2012, the U.S. Department of Education's FERPA regulations expanded the circumstances under which student education records and personally identifiable information (PII) contained in such records—including Social Security Number, grades, or other private information—may be accessed without the student's consent. First, the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or state and local education authorities ("Federal and State Authorities") may allow access to the student's records and PII without the student's consent to any third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program. The evaluation may relate to any program that is principally engaged in the provision of education, such as early childhood education and job training, as well as any program that is administered by an education agency or institution. Second, Federal and State Authorities may allow access to a student's education records and PII without the student's consent to researchers performing certain types of studies, in certain cases even when the student objects to or does not request such research. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive a student's PII, but the Authorities need not maintain direct control over such entities. In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain, and share without the student's consent PII for the student's education records, and they may track the student's participation in education and other programs by linking such PII to other personal information about the student that they obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service, and migrant student records systems.

Exceptions to FERPA

The campus may release confidential student educational information and directory information to the following individuals or agencies without written consent:

1. UMW and other Montana University System personnel for legitimate educational purposes and to the extent required in the ordinary performance of their duties.
2. Authorized representatives of the Comptroller General of the United States, the Secretary of the Department of Education, an administrative head of an educational agency, or state educational authorities having access to student or other records that may be necessary in connection with the audit and evaluation of federally-supported education programs (provided that a collection of personally identifiable data is specifically authorized by federal law, any data collected by such officials with respect to individual students shall not include information, including Social Security Numbers, that would permit the personal identification of such students or their parents after the data so obtained has been collected).
3. In compliance with a judicial order or any lawfully issued subpoena, upon condition that the student is notified in advance of compliance.
4. In connection with a student's application for or receipt of financial aid.

The Clery Act

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act requires higher education institutions to give timely warnings of crimes that represent a threat to the safety of students or employees, make public their campus security policies, and collect, report, and disseminate crime data to the campus community and to the U.S. Department of Education. The act is intended to provide students and their families, as higher education consumers, with accurate, complete, and timely information about safety on campus to allow them to make informed decisions. Crime data for Montana Western is posted on the university website and is available from the Dean of Students Office. In addition, the Dean of Students Office posts timely warnings of crimes throughout campus.

Student Services & Programs

Lucy Carson Library & Swysgood Technology Center

James E. Short Center
(406) 683-7541

The mission of the Lucy Carson Library (LCL) and Swysgood Technology Center (STC) is to help in the creation of an information and technology literate lifelong learner and to positively impact the way that faculty teach, students learn, and staff work.

Information is no longer limited to library shelves, nor to specific dates and times of access. Helping people connect with and utilize this information and technology is the goal of the LCL and STC staff.

The facilities offer:

- an excellent balance between group and quiet study spaces.
- comfortable furniture.
- food and drink friendly environments with a coffee shop and eatery on site.
- wireless Internet accessibility.
- digital and print information resources in all curricular areas.
- collection of circulating technology tools.
- six computer labs.
- on- and off-campus accessibility of these resources.
- digital services such as interlibrary loan.
- a library web portal.
- information and technology instruction.
- photocopy and media assistance.

Students' intellectual welfare is the focus, providing the latest technology, media, and duplication services.

The fully automated library collection of print and non-print resources including books, periodicals, and electronic materials fulfills the information needs of most patrons. An interlibrary loan department assists in locating information not available at the library. The library has been designated as Montana's NASA Teacher Resource Center, and K-12 Educational Media Center by the Montana Office of Public Instruction.

Library and technology instruction is available for individuals, small groups, or classes. The staff tailors presentations to faculty or student requests, including in-classroom instruction for faculty while they are off campus.

School of Outreach

Main Hall 115
(406) 683-7537
Toll Free (866) 799-9140

The School of Outreach embodies Montana Western's mission of serving citizens of all ages with academic, community-service, and lifelong-learning programs. Outreach programs extend beyond traditional University course offerings to provide students with more choices, to promote professional development, and to serve community interests. Credit, non-credit, grant-funded, self-supporting, and sponsored programs are offered at locations on- and off-campus, as well as sites linked by technology. Outreach programs use alternative schedules that allow students to take classes at night, on weekends, or during Summer Session. The School of Outreach also offers all of the UMW online courses.

The School of Outreach issues a bulletin of course offerings three times each year—in July, December, and April, corresponding with the Fall, Spring, and Summer Sessions, respectively. The Outreach Bulletin is supplemental to the campus Schedule of Classes and is of interest to students seeking to accelerate their studies, enroll in an online course, pursue a professional development opportunity, or just have fun.

Honors Program

Dr. Cheryl Juergens, Honors Program Chair
(406) 683-7308

The UMW Honors Program gives a limited number of curious and motivated students the opportunity to seek greater challenge through Honors Seminars. These are small, interactive, interdisciplinary classes, each based on a common theme, rich in reading, writing, and independent projects. The 15 or fewer students in each seminar get to know one another well, engage in service learning activities, and present their work to the seminar, as well as to other audiences.

Each seminar is designed to serve as a substitute for General Education or major classes so that students are not slowed in their progress toward graduation. To graduate with an Honors endorsement, students take at least four seminars, with at least two seminars at the 300- or 400-level. Students submit an *Application to Graduate With Honors Endorsement* form (search for "Printable Forms" on the UMW website) with their graduation application materials when applying to graduate from Montana Western.

Honors application forms are available at
<http://www.umwestern.edu/shares/honors>, click on "Contact Us."

Return completed Honors applications to: The University of Montana Western, Campus Box 75, 710 S Atlantic, Dillon MT 59725-3598.

Services for Student Success

Academic Advising

Advising Center
Main Hall 214
(406) 683-7050, 683-7049

Academic advising is an important service provided to UMW students. To help ensure that students are making satisfactory progress toward meeting the requirements for their academic program of study, all students should meet regularly with their advisor. All students at Montana Western are assigned a faculty advisor in their area of study once a major or program of study is declared. Undeclared majors are assigned to Advising Center advisors until a major is declared. However, it is important for a timely graduation and to ensure that program of study requirements are being met that students officially declare a major with the Advising Center as soon as they have decided on a program of study.

The Advising Center assists students who wish to discuss their program of study or who need to be assigned a faculty advisor. All UMW students are encouraged to meet with their advisor to review their program of study. Students may contact the Advising Center with questions related to academic advising, student forms, and other general information.

Career Services

Lucy Carson Library 006
(406) 683-7143
umwcareers@umwestern.edu

Career Services offers a wide array of services designed to help students and alumni find satisfying employment in today's ever-changing environment. Career Services has a number of resources to help students who have questions about a chosen major (or haven't yet chosen a major) to understand their opportunities and options as they plan their career.

Career Services maintains current information about campus work opportunities as well as jobs in the community, internship opportunities, and career options after graduation. Career Services can assist students with setting up a placement file to assist in job and internship placement before and after graduation. Workshops on resume writing, interview skills, and cover letters are offered by Career Services in coordination with the UMW Learning Center.

Career Services offers assistance to all UMW graduates by providing valuable career planning and job searching skills, cover letter and resume writing samples, and interviewing best practices. The office sponsors a Career Week each spring and fall as a way for UMW students to familiarize themselves with a variety of professionals and professions. Career Services is located inside the Learning Center in the basement of the Lucy Carson Library. Contact Career Services for more information.

Disability Services

Dean of Students, Davis Hall
(406) 683-7565

Montana Western is committed to achieving equal educational opportunity and full participation for persons with disabilities. It is UMW's policy that no qualified person be excluded from participating in, be denied the benefits of, or otherwise be subjected to discrimination with regard to any University program, activity, internship, practicum, or class.

A student with disabilities must give initial notification to the Dean of Students that he/she has a physical, psychological, and/or learning disability. The student must provide appropriate documentation that describes the qualifying disability, the extent of that disability, and information on how the effects of the disability might be overcome through reasonable accommodations. If the student does not make this

notification and provide the appropriate documentation, UMW does not have a legal obligation to provide accommodations.

It is Montana Western's goal to meet the needs of each student with a disability. Upon receipt of disability documentation, the Dean of Students or her representative will contact the student to arrange a meeting to discuss reasonable accommodations. The student is welcome to bring a parent, guardian, significant other, or assistant to the meeting. The meeting is designed to help the student be successful in his/her course work at UMW. The Dean of Students will help guide the student in making decisions regarding classes and needed accommodations. Accommodations may include services such as note-taking, books on audio CD, proctored and/or orally-delivered tests, extended testing periods, and dictation services.

Housing and dining accommodations, access to buildings, and student support groups are also topics discussed in the meeting with the Dean. Accommodations must be reasonable as to the extent of the law, including ADA and Section 504 provisions. When accommodations cannot be agreed upon between faculty, student, and administration, the Dean of Students Office will seek advice, input, and/or mediation from the University of Montana-Missoula campus.

Learning Center

Lucy Carson Library 006
(406) 683-7200

The Learning Center offers peer tutoring for all UMW students. Peer tutoring services are available as appointments or on a walk-in basis. Peer tutors are available to assist students in a one-on-one setting or as leaders of study groups. Peer tutoring is offered in all the content areas and tutors come highly recommended by faculty. The Learning Center aids students in organizing and locating resources, improving writing and editing skills, formatting papers, practicing oral presentations or note-taking skills, and learning to correctly cite reference sources. The Learning Center provides a number of workshops that are accessible as computer modules in its computer lab.

All UMW students are encouraged to stop by the Learning Center at the beginning of each block to meet the tutors, obtain a schedule, and learn about study table opportunities. The Learning Center promotes a collaborative learning environment with computers, a reference library, knowledgeable tutors, and a welcoming atmosphere. Call for more information or to make an appointment.

TRIO Student Support Services

Main Hall 215
(406) 683-7322

TRIO Student Support Services (TRIO SSS) offers academic advising, tutoring, counseling services, and some financial aid to assist eligible students enrolled at UMW who become participants in the program. Academic advising includes help with campus academic procedures, referrals to appropriate offices, career guidance, and information about financial aid. Assistance is offered in a friendly office environment where students are encouraged to achieve academic success. Applications are available in the TRIO SSS Office.

Funded by a U.S. Department of Education grant, TRIO SSS serves approximately 160 students at UMW. Students with an academic need are eligible for TRIO SSS if they meet one or sometimes two of the following criteria:

1. Family income meets income guidelines.
2. Neither of the student's parents or legal guardians has completed a four-year college degree.
3. Student has a documented disability.

Financial Aid

James E. Short Center
710 S Atlantic
Dillon, MT 59725-3598
(406) 683-7511

The Financial Aid Office ensures that Montana Western students have the financial support necessary within the boundaries of state and federal regulations to achieve their academic goals. The UMW Financial Aid Office follows the pre-established federal guidelines that govern all financial aid transactions for institutions of higher education. Students should make sure that they understand all requirements for residency, enrollment, fee payment, and financial aid.

Students at Montana Western enroll on a semester basis and are expected to register (including paying tuition and fees) prior to the start of the term for all classes they plan to complete during that term and, once registered, to actively participate in learning activities associated with courses in which they are enrolled.

For financial aid purposes, the following definitions (pages 31-33) apply:

Attendance or Attending—Registering for and actively participating in learning/instruction activities associated with a class or classes. Only students who start with and maintain full-time enrollment status throughout the term are eligible for intercollegiate athletic certification and participation.

Enrollment Status (Student)—A student semester designation that is determined based on weeks of actual attendance and credit load. There are three (3) enrollment status designations: full-time, part-term, and part-time.

Full-Time Student—For financial aid purposes, a student officially registered for a minimum of 12 semester credits of courses that require a minimum of 15 weeks of class participation during a regular semester.

Part-Term Student—A student officially registered for a minimum of 12 semester credits of courses that require less than 15 weeks of class participation during a regular semester. Financial aid is pro-rated for part-term students; part-term students are not eligible for intercollegiate athletics.

Part-Time Student—A student registered for less than 12 credits during a regular semester. Financial aid is pro-rated for part-time students; part-time students are not eligible for intercollegiate athletics.

Student Financial Aid Programs

Grants

Federal Pell Grant

Federal Pell Grants are awarded to undergraduate students who have not earned a bachelor's or professional degree. Pell eligibility is determined by a formula developed by the U.S. Congress and is applied consistently to all applicants using the information reported in the *Free Application for Federal Student Aid (FAFSA)*.

Federal Supplemental Education Opportunity Grant (FSEOG)

This grant is available to a limited number of undergraduate students with exceptional financial need. Priority is given to students who receive full Pell Grants.

Baker/MTAP Grant, Access Grant

To qualify for these grants, a student must be a Montana resident, eligible for financial aid, enrolled as a full-time undergraduate student, and have substantial financial need. There is also a work requirement for students receiving this grant. They must have earnings from work for the previous tax year in accordance with a formula developed by the State of Montana. Priority is given to students who are just beyond Pell Grant eligibility according to the aforementioned formula.

Montana Higher Education Grant

Montana Higher Education Grant is a state-provided funding source awarded to full-time Montana residents who are also Pell Grant recipients and first-time degree-seeking students (undergraduate students). Students must have demonstrated need to receive the fund after Pell Grant and resources. Priority is given to the lowest EFC students and funds are awarded on a first-come, first served basis.

Federal TEACH Grant (Loan)

The Federal Teacher Education Assistance for College & Higher Education (TEACH) Grant Program is for upper division students accepted into the UMW Teacher Education Program (TEP). Available to full-time Junior/Senior students in the Education major, the program provides grants of up to \$4,000 per year to students who intend to teach in a public or private elementary or secondary school that serves students from low-income families in a teacher shortage subject. *If these terms are not met, the TEACH grant becomes an unsubsidized loan with retroactive interest.*

Loans

Federal Perkins Loan

A Federal Perkins Loan is a low-interest (5%) loan for students with financial need. The school is the lender. A typical award at UMW is \$1,800/year. Repayment of the loan is deferred while the borrower is enrolled at least half-time in an approved institution of higher education. Priority is given to full-time students. Interest begins to accrue and repayment starts nine months after the borrower ceases to be enrolled at least half-time. Repayment may be extended over a maximum of ten years. Under certain circumstances, the Perkins Loan can be cancelled. Information regarding loan cancellation and deferment is available in the Financial Aid Office. Perkins Loans are very limited.

Federal Direct Loan

Federal Direct Loans are low-interest loans (variable interest annually for borrowers) offered by the Department of Education to students attending school at least half-time. Students must complete the *FAFSA* form and

apply through the Financial Aid Office, and must also sign a promissory note to receive this loan.

Repayment of the Direct Loan begins six months after the student graduates, leaves school, or drops below half-time. Students have up to ten years to repay.

Direct Loans are either subsidized or unsubsidized, and a student may receive both types for the same enrollment period. Unsubsidized Direct Loans are not awarded on the basis of financial need. The student is responsible for the interest from the time the loan is fully disbursed. A student can request that the interest be accrued and capitalized (that is, the interest will be added to the principal of the loan). However, it is recommended that students pay interest quarterly to lower aggregate debt upon repayment. No principal payments are due during school or deferment periods. A subsidized Direct Loan is awarded on the basis of

financial need. The student will not be charged any interest before beginning repayment.

Annual Loan Limits (subject to cost of attendance limits)

First year	\$3,500; \$7,500 for independent students
Second year	\$4,500; \$8,500 for independent students
Third, fourth, fifth year	\$5,500; \$10,500 for independent students

All students may borrow (subject to cost of attendance) \$2,000 per year in additional unsubsidized loans.

Aggregate Loan Limits

Undergraduate \$23,000 – 46,000 (varies with dependency status)

Federal Direct PLUS Loan

Federal PLUS Loans are unsubsidized loans made to parents of dependent students. Parents may borrow the cost of attendance less other financial aid. Interest is variable. Federal PLUS borrowers generally must begin repaying both principal and interest within 60 days after the loan is fully disbursed. PLUS Loans are credit contingent. Parents may re-apply with an endorser if denied.

Retention Loan Scholarship

A short-term retention scholarship revolving loan fund was created from federal funds allocated by the Governor to the Montana University System and then allocated to UMW. The fund is to be used to provide educational scholarship loans to selected students. A scholarship loan to a recipient may not exceed \$1,000 per school year for an undergraduate student and may not be made to a student for more than six years. A scholarship loan may not exceed the cost of attendance as determined by the UMW Financial Aid Office.

An applicant for a retention scholarship loan must be a resident of Montana, enrolled or eligible for enrollment as a full-time student in a degree program, have a minimum 2.00 GPA (cumulative and/or prior semester), and have an EFC range from \$3,500-7,500.

The recipient must at all times continue to be enrolled in at least 12 semester credits and 15 weeks and be in good academic standing at UMW.

Repayment of Short-Term Loans

Repayment is made within 30 days during enrollment at UMW. These funds are for temporary and emergency purposes and repayment is usually made during the semester borrowed. Some of the funds have been established by families and friends as memorials to persons named in the funds. Fund sources include:

- Frank & Catherine Willis Loan Fund
- American Association of University Women, Dillon Branch, Loan Fund
- Art Club Loan Fund
- Butte Rotary Club Loan Fund
- John & Jennie Painter
- B.F. White Memorial
- Bishop Memorial
- Alumni Loan Fund
- Frederick Kress Memorial
- Class of 1922 Loan Fund
- Iva Lee Orr Loan Fund
- Dillon Business & Professional
- Dillon Rotary Club Loan Fund
- Chinook Loan Fund
- Robert Clark Memorial
- Shakespeare Club Loan Fund
- Samuel Wells Loan Fund
- Pan-Hellenic Loan Fund
- Cap and Gown Loan Fund
- Western Women's Club Loan Fund
- Porter-Sneed Athletic Loan Fund
- Bernice Gleed Loan Fund
- Iva Estella Miller Loan Fund
- Ira Perkins Loan Fund

Employment Opportunities

The Financial Aid and Career Services Offices provide assistance to regularly enrolled students in obtaining part-time employment during the academic year and full-time employment during the summer and other vacation periods. Earnings from federal and state employment will be counted as additional resources in evaluations for financial aid. Earnings generated after an initial financial aid offer may result in reduction or retraction of financial aid.

Federal and State Work Study

Work Study is a federal or state program that provides opportunities for employment for undergraduate students in need of such earnings to help meet the cost of their education. To be eligible, a student must demonstrate need, be accepted for enrollment or be enrolled as at least a half-time student, have a completed financial aid file, and be making satisfactory academic progress while employed.

Work is generally limited to ten hours per week while classes are in session. The major portion of the student's hourly wage under the Work Study program is provided by the federal or state government, with the employer contributing the balance. Hourly pay rates comply with minimum wage laws and vary with the type of work and the student's

experience and capabilities. Employment is generally on campus. Work Study funds are limited and awarded on a first-come, first-served basis.

Full-Time Federal Work Study

Full-time Work Study is a summer program designed to provide student employment during the summer months. It is expected that the earnings from this employment be utilized to offset the next academic year's educational costs. To be eligible, a student must be accepted for admission or pre-registered for the next academic year, have completed a summer work study application available from the Financial Aid Office, have a completed financial aid file for the next academic year, and have documented financial need for the next year. Work Study funds are limited and awarded on a first-come, first-served basis.

Additional Employment Opportunities

There are a limited number of part-time student employment opportunities. Students should contact Career Services for information.

Board job opportunities are awarded as part of an athletic contract allowing student-athletes to work and earn a paycheck.

Tuition Waivers

The Board of Regents of the Montana University System has authorized each unit of the Montana University System to grant waivers of tuition and out-of-state tuition to a limited number of regularly enrolled undergraduate and graduate students who meet prescribed criteria. ***Tuition waivers do not waive mandatory fees.***

Tuition waivers may be granted to recognize exceptional accomplishment or to increase accessibility of higher education to those who require financial assistance. Certain students, such as high school honor students, international students, or Native Americans of Montana, may be exempt from paying tuition and out-of-state fees. These fee exemptions are determined by the Financial Aid Office.

Students who receive out-of-state tuition waivers must pay non-resident building fees.

Dependents of Montana University System Employees Tuition Waiver

Dependents of a Montana University System employee are eligible for a 50% reduction of residential tuition. The guardian must have completed five years of employment at three-quarter (3/4) time or more without a break in service. Employees utilizing employee tuition waivers are not eligible for a dependent partial tuition waiver. For each qualifying employee, only one dependent may utilize the dependent partial tuition waiver in an academic term.

Montana University System Honor Scholarship

This scholarship waives tuition and is awarded to top graduating seniors in Montana by the Board of Regents. To activate this scholarship, a student must submit the form received from the Board of Regents to the UMW Financial Aid Office.

American Indian Waiver

Montana Indian students have been granted American Indian Tuition Waivers by the Montana Board of Regents. To qualify, the student must have been a bona fide resident of the State of Montana upon enrolling at UMW, must be one-quarter (1/4) degree of Indian blood documented by a certificate or tribal enrollment card, and have **demonstrated financial need**.

American Indian Waivers do not waive all fees. The tuition is waived. The American Indian Waiver may not be used with other state fee waivers. All other fees are the student's responsibility. The tuition waiver will continue as long as the student maintains satisfactory academic progress according to the standards provided in the Satisfactory Progress Policy, available at the Financial Aid Office.

Senior Citizen Tuition Waiver

To be eligible for the Senior Citizen Tuition Waiver, individuals must be 65 years of age or older, provide a copy of a driver's license or other proof of age when registering, and have been bona fide residents of Montana for at least one year prior to enrollment at UMW. This waiver may be need-based.

University of Montana Employees Tuition Waiver

University of Montana employees must be in-state residents employed at least three-quarter (3/4) time on the date of registration and for the entire semester. Employees receiving a tuition waiver must have approval of their supervisor and the department head. A maximum of eight credits may be waived. Employees may not take more than one "block course" per semester.

Veterans Tuition Waiver

Certain honorably discharged veterans are entitled to a Veterans Tuition Waiver. Those using this tuition waiver program must pay their fees before they will be officially registered. To be eligible for the tuition waiver program, veterans must file a completed tuition waiver form, a certified copy of the DD214 form, and a letter from the Veterans Administration stating that benefits have expired to the Veterans Affairs Coordinator in the Financial Aid Office; must be a bona fide Montana resident for at least one year prior to enrollment at UMW; and must have served between the dates of 12/7/41 to 12/31/46 World War II; 6/22/50 to 1/31/55 Korea; 1/1/64 to 5/7/75 Viet Nam, and/or on location during the Lebanon, Grenada-Panama, Persian Gulf, Iraq, or Afghanistan Conflicts. Some qualifying dates for recent conflicts are not listed and are evaluated on a case-by-case basis in accordance with Board of Regents policy.

Other Tuition Waivers

Several other tuition waivers are available for war orphans, dependents of prisoners of war, and surviving spouse or children of any Montana firefighter or peace officer killed in the line of duty. Contact the Financial Aid Office for details.

Scholarships

Western Undergraduate Exchange (WUE)

Students from Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming may be eligible for the Western Undergraduate Exchange (WUE) program. Upon notification of eligibility, these students pay one and one-half (1½) times the tuition for resident students plus all other fees applicable to all students. Contact Admissions for more information on WUE Scholarships. Students must maintain satisfactory academic progress once awarded a WUE Scholarship.

Scholarship Recipients

Many scholarship recipients are required to maintain higher scholarship standards than described in this policy. Such standards are often outlined in a notification letter sent to the student. Students who feel they may not be able to maintain minimum acceptable standards should contact the Financial Aid Office.

Other Financial Aid Programs Available To Students

In addition to the financial aid programs described on the preceding pages, other funding sources are available to some students who meet special eligibility criteria. Generally funds received through these agencies do not have to be repaid.

Job Service

Some students may qualify for assistance with tuition and fees via their local Job Service. Contact the Dillon Job Service for more information.

Social Security

Students eligible for Social Security Educational Benefits should contact their local Social Security Office for more information.

State Vocational & Rehabilitation Service

Certain disabled or handicapped persons may qualify for educational assistance through the Montana Department of Public Health & Human Services. Contact that office for more information.

Veterans Benefits and Tuition Assistance

The Veterans Coordinator located in the UMW Financial Aid Office is available to assist veterans and their dependents with procedures for enrolling at UMW and applying for educational benefits. The Veterans Coordinator acts as an intermediary between veterans and the Veterans Administration Office at Fort Harrison, Montana, and between veterans and the Department of Veterans Affairs Office in St. Louis, Missouri.

All veterans and eligible persons receiving educational benefits under Veterans Administration programs are required by law to report promptly to the Veterans Administration any changes that may affect the amount of money being received. These changes include dropping courses, withdrawing from school, not attending classes, changes in marital status, and added dependents.

To be considered full-time, undergraduate students must carry 12 credits, or 16 block credits, during each of Fall and Spring Semesters. As the criteria for Summer Session differs, veterans should contact the UMW Veterans Coordinator for more information.

The following chart indicates the minimum credit hours for which undergraduate veterans must be registered to receive benefits:

Benefits	Credits	Blocks*
Full	12 or more	4
Three-Quarter	9, 10, 11	3
One-Half	6, 7, 8	2
Fees Only	Less than 6	1

*Contact the Veterans Coordinator in the Financial Aid Office for explanation of Block certifications.

The Veterans Administration expects the veteran to make satisfactory progress according to UMW's Veterans Satisfactory Academic Progress Policy, regularly attend classes, and pursue a final objective. For information and applications, contact the UMW Veterans Coordinator or the Veterans Administration Office, Fort Harrison MT 59636, (800) 332-6125. Credits are certified based upon progress toward the veteran's degree program according to VA regulations.

Financial Aid Policies

Satisfactory Academic Progress

In order to receive financial aid, a student must be in an eligible program. An eligible program is a course of study that leads to a certificate, associate, bachelor, or higher degree. Students receiving financial aid are required to maintain satisfactory academic progress. A full-time undergraduate student must satisfactorily complete a minimum of 12 credits and 15 weeks per semester. Complete information is available in the Financial Aid Office. Incomplete and/or Audit grades do not count toward academic progress.

Students receiving financial aid must complete their degree programs within a reasonable period of time as established by the University. Students may receive financial assistance only as long as the cumulative number of attempted credits is less than 150 percent of the number required for the completion of the bachelor's degree (185 credits for most programs). Students who want consideration for assistance beyond the 185 credits must submit a petition to the Financial Aid Office.

Changes in Satisfactory Progress Standards

Exceptions or amendments to any of the specific provisions regarding Satisfactory Academic Progress Standards may be made at any time, without publication, due to changes in federal, state, and/or institutional regulations and policies. Questions concerning this policy should be addressed to the Financial Aid Office.

Appeal of Financial Aid Suspension

Students may appeal in writing by submitting a *Financial Aid Appeals Form*, available from the Financial Aid Office. The Financial Aid Appeals Committee meets as needed and reviews each case. It is the student's responsibility to know if their grade reports, when compared to the Satisfactory Academic Progress Standards, will cause immediate suspension of their financial aid. It is not the responsibility of the Financial Aid Office to notify the students. It is also the student's responsibility to notify the Financial Aid Office when reinstatement conditions have been met or to initiate an appeal.

Reinstatement of Financial Aid

Students whose suspension time has elapsed or who have successfully corrected the deficiency must notify the Financial Aid Office and submit a grade transcript for review. Reinstatement of financial aid is subject to funds available at the time the completed file is reviewed. An appeal is required and is subject to approval.

Transfer Students

Students transferring to UMW from another institution with a GPA less than 2.0 and who are not eligible to receive aid at that institution due to failure to maintain satisfactory progress must submit a letter of appeal to the Financial Aid Appeals Committee, c/o the UMW Financial Aid Office, for approval to receive financial aid.

A tuition waiver is available for students who have exhausted VA benefits. An individual using the Veterans Tuition Waiver must have a tuition waiver form, a DD214 form on file at UMW, proof that benefits have expired, and be a Montana resident.

Tribal Higher Education Grant

Tribal Higher Education Grants are available to Native American students enrolled in a full-time course of study. To be eligible, the student must demonstrate financial need and be at least one-quarter (25%) American Indian, Eskimo, or Aleut blood as recognized by a tribal group. The award limits are based on the student's need and the availability of funds. Contact a Tribal Area Office for information. Needs Analysis forms are available through Tribal Higher Education and are typically due June 1st.

Non-Degree Students

A non-degree student, by definition, is not considered to be in a degree program and is therefore not eligible for financial aid. Students enrolled for educator licensure or re-licensure may be eligible for aid.

Student Eligibility Review

Montana Western reserves the right to review and cancel awards at any time due to changes in financial or academic status, or because of the recipient's failure to observe reasonable standards of citizenship. All Perkins Loans, Supplemental Education Opportunity Grants, and Work Study employment opportunities are awarded subject to Congressional action and the availability of federal funds.

Transfer of Financial Aid to Another Institution

Financial awards other than Pell Grants are not transferable from one institution to another. To add another institution to the Student Aid Report, call 800-4FED-AID (800-433-3243), or add the school online at www.FAFSA.ed.gov.

Return of Title IV Funds/Institutional Refund Policy

This policy applies to students who withdraw, cease attending, or are expelled. Contact the Financial Aid Office for current policy information.

Refunds for these students are determined according to the following policy:

1. The term "Title IV Funds" refers to the federal financial aid programs authorized under the Higher Education Act of 1965 (as amended) and includes the following programs: unsubsidized Direct Loans, subsidized Direct Loans, Federal Perkins Loans, Federal Pell Grants, and Federal SEOG.
2. **For Financial Aid purposes, a student's withdrawal date is:**
 - a. the date the student began the institution's withdrawal process or officially notified the institution of intent to withdraw; or
 - b. the midpoint of the period for a student who leaves without notifying the institution, or earns zero grade points; or
 - c. the student's last date of attendance at a documented academically-related activity.

Return of funds and/or pro-ration of aid will be calculated for all students who withdraw from the University or who withdraw from an individual block without attending.

In accordance with federal regulations, when financial aid is involved, returned funds are allocated in the following order:

1. Unsubsidized Direct Loans
2. Subsidized Direct Loans
3. Federal Perkins Loans
4. Federal Pell Grants
5. Federal SEOG
6. Other Title IV assistance
7. Other federal sources of aid
8. Other state, private, and institutional aid
9. The student

The student's responsibilities in regard to the return of Title IV funds include returning to the Title IV program any funds that were disbursed directly to the student and for which the student was determined to be ineligible via the Return of Title IV Funds calculation, including any financial aid refunds the student may have received.

Students who do not begin attendance in all block credits will be subject to a reduction of Pell Grant funds, if applicable.

For more information about institutional refund of fees for withdrawal, see Tuition & Fees Information section of this Catalog.

Enrollment & Graduation

Registrar's Office
James E. Short Center
710 S Atlantic
Dillon MT 59725-3598
(406) 683-7371

A student's registration is not complete until all fees are paid or until fee payment arrangements have been made; deadlines apply.

The Office of the Registrar & Institutional Research provides enrollment and student records services for the UMW community. In addition, the department serves as a major provider of current and historical institutional enrollment data that is used by various constituencies to determine effectiveness of University operations and to assist with organizational planning and advancement.

In fulfilling its mission, the department helps to further the institutional strategic plan by continuously striving for excellence, improving responsiveness to the needs of campus and community constituents, enhancing Montana Western's ability to assess student success, and assuring institutional accountability.

Registration

To participate in UMW's learning/instructional activities, receive university credit for classes completed, and earn grades, eligible individuals must officially enroll in classes and pay all required expenses at the start of a term/semester and within deadlines outlined in the UMW Academic Calendar. Current students will find registration information on the University's website and in printed class schedules distributed prior to the start of registration activities. Registration-related information is normally given to new students upon notification of acceptance for admission to Montana Western.

Montana Western operates on a semester calendar. Students are expected to register prior to the start of a term for all classes they plan to take that term. Exceptions (late adds) may be approved but only in

instances where students verify that extenuating circumstances prevented them from registering for all classes before the start of the term. Students may not register for one block class at a time.

Who May Register

- Current students in "good" academic standing.
- Students new to UMW who have satisfactorily completed the UMW admissions procedure.
- Former/previous students who have been officially readmitted.
- Part-time, evening, weekend, and off-campus students who have completed the appropriate Application/Registration forms and who are otherwise eligible to register.

Registration procedures vary slightly depending upon:

- the term of enrollment.
- status as a current or new student.
- whether registration is for day, evening, weekend, on-campus, off-campus, or internet classes.
- the number of classes/credits attempted.
- whether the prospective enrollee is pursuing completion of a degree or formal program of study at UMW.

See Student Rights & Responsibilities section of this Catalog. UMW Policy 203.1 Student Enrollment & Attendance is available at http://my.umwestern.edu/campusinfo/policymanual/policies/203.1_StuEnrollment_Attendance_Policy.pdf.

DAWGS Online Enrollment System

dawgs.umwestern.edu

"DAWGS" Online Student Enrollment Information System provides students electronic access to their UMW records and enrollment status. Students are encouraged to check their personal information on DAWGS regularly to assure accuracy. Information available to students via DAWGS includes:

- Final grades for a term or block.
- Transcript information.
- Mailing and billing address information.
- Student e-mail address(es) on file.
- Emergency contacts on file.
- View "holds" (if any).
- Enrollment verification self-service.
- Registration and class schedule change information (students can add or drop classes via DAWGS prior to the start of a term).
- Current student class schedule details.
- Account/billing information.
- Access to course descriptions.
- Current and future term course offerings.

Students access DAWGS account information by following the instructions below. DAWGS works best with Internet Explorer.

1. Click "Login To DAWGS".
2. Enter Password, User ID (Student ID number) and PIN (initially the student's birth date in "mmddyy" format; example: if DOB is

June 7, 1972, PIN is 060772). The system will prompt first-time DAWGS users to change their PIN for security purposes and require them to enter an "alternate security access" question & answer in case they forget their new PIN number.

3. Select Menu items as needed.
4. Exit the system and close the browser to prevent unauthorized third-party access to confidential account information in DAWGS.

UMW does all it can to secure its computer network and systems from unauthorized access. However, the protection of the systems can be compromised if people do not protect their ID and password. In an environment where transactions are processed, it is imperative that the integrity of the data is protected by ensuring that IDs and passwords are secure. This is the responsibility of all users of the system. Identity theft is a serious crime and should be reported to appropriate on- and off-campus authorities: Federal Trade Commission at <http://www.consumer.gov/idtheft/>, or the UMW Dean of Students or Director of Information Technology Services (ITS).

Specific instructions for using the registration and add/drop features in DAWGS are included in printed class schedules and on the Registration Information pages of the UMW website. Contact the Registrar's Office with questions or problems.

Registration Procedures

**Admission to the University is required prior to enrollment and/or attendance.
A student's registration is not complete until all fees are paid or
until fee payment arrangements have been made; deadlines apply.**

Current Students

1. Contact an advisor or the Advising Office to discuss academic goals, to develop a class schedule for the coming term, and to pick up term-specific alternate personal identification number (alternate PIN).
2. Access DAWGS to select classes or submit a completed, advisor-approved registration form to the Registrar's Office.
3. Pay (or make arrangements to pay) all enrollment-related expenses and finalize the registration at Business Services.

Registration must be completed at the beginning of the appropriate term. Class schedules of non-paying registrants will be cancelled; however, this does not automatically eliminate all charges. Refer to the Academic Calendar regarding important enrollment-related dates and deadlines.

Students New to Western

All first-time enrollees at UMW who plan to earn a degree or complete a program must complete the admissions application procedure and be formally accepted for admission prior to attempting to enroll.

1. Contact an advisor or the Advising Office to discuss education goals, develop a class schedule for the coming term, and obtain assigned term-specific alternate PIN.
2. Access DAWGS to select classes, or submit a completed, advisor-approved registration form to the Registrar's Office.
3. Pay (or make arrangements to pay) all enrollment-related expenses and finalize the registration at Business Services.

Registration must be completed at the beginning of the appropriate term. Class schedules of non-paying registrants will be cancelled; however, this does not automatically eliminate all charges. Refer to the Academic Calendar regarding deadlines. All new students are strongly encouraged to attend Orientation sessions scheduled at the beginning of a term. Contact Admissions for Orientation information, (406) 683-7331.

Part-Time Evening, Weekend, and Off-Campus Students

All part-time, evening, weekend, and off-campus students should complete the admissions application procedure and be formally accepted for admission prior to attempting to enroll.

1. Contact an advisor or the School of Outreach to discuss enrollment, goals, registration, and fee payment options.
2. Submit a completed, advisor-approved registration form to the School of Outreach or the Registrar's Office, or access the online registration feature via DAWGS.
3. Pay (or make arrangements to pay) all enrollment-related expenses and finalize the registration at Business Services.

Registration must be completed at the beginning of the appropriate term. Class schedules of non-paying registrants will be cancelled; however, this does not automatically eliminate all charges. Refer to the Academic Calendar regarding deadlines, etc. All new students are strongly encouraged to attend Orientation sessions scheduled at the start of a new term. Contact Admissions for Orientation information, (406) 683-7331.

Individuals desiring temporary enrollment only (plan to complete only one or two classes) should contact Admissions for instructions on admission procedures.

Summer Session Students

All Summer Session students seeking a degree, major, minor, licensure, or registering for more than six credits must complete the admissions application procedure and be formally accepted for admission prior to attempting to enroll.

1. Contact an advisor or the School of Outreach to discuss enrollment, goals, registration, and fee payment options.
2. Submit a completed, advisor-approved registration form to the School of Outreach or the Registrar's Office.
3. Pay (or make arrangements to pay) all enrollment-related expenses and finalize the registration at Business Services.

Registration must be completed at the beginning of the appropriate session. Class schedules of non-paying registrants will be cancelled; however, this does not automatically eliminate all charges. Refer to the Academic Calendar regarding deadlines. All Summer enrollees are strongly encouraged to ask questions regarding enrollment policies before the start of classes.

Late Registration Students or Students Who Re-Register (Following Cancellation)

Individuals who enroll after the start of classes for a term will be charged late fees. These students will be limited to enrolling in classes that have not yet started. No enrollments will be accepted after the

published deadline to add for a term or session. An individual “block” is not considered a “term”. Procedures for registering after the start of a term are outlined below.

1. Contact an advisor to discuss academic goals and to develop a class schedule for the coming term.
2. Submit a completed, advisor-approved Registration form to the Registrar’s Office; all course instructors must approve late enrollment.
3. Pay (or make arrangements to pay) all enrollment-related expenses (including late fees) at Business Services immediately after submitting the Registration form to the Registrar’s Office, and finalize the registration at Business Services.

Course Schedule Changes

Students must officially register, add or drop a course(s), or withdraw from all courses for a term; deadlines apply.

Add Courses, Drop Courses, & Withdraw from the University

Course schedule changes must be completed in a timely fashion and according to procedures outlined below. Check records carefully before and after taking action to ensure that intended changes are officially recorded. Student course schedule changes are grouped into three different categories depending upon when the change takes place:

1. before classes begin.
2. after classes begin but before the published deadline.
3. after the deadline for such action.

Add Courses, Drop Courses, or Cancel Registration Before the Semester/Term Begins

Adding or dropping courses, or withdrawing/canceling one’s enrollment can be done by any of these methods:

1. Access DAWGS and make the needed changes.
2. Submit a completed *Student Class Schedule Change* form (available at the Registrar’s Office or online) to the Registrar’s Office.
3. Submit a written notification to the Registrar’s Office, including a date, student ID number or Social Security Number, any other pertinent information, and the student’s signature.

Students attempting to add a closed or restricted class must complete a *Student Class Schedule Change* form or an *Add/Drop/Withdrawal* form, obtain written approval of the course instructor, and return the completed form to the Registrar’s Office on/by the published deadline for such action.

Add Courses, Drop Courses, or Withdraw After the Semester/Term Begins

Once a term begins, all student class schedule changes, including withdrawal from UMW, begin and end at the Registrar’s Office.

1. Complete an *Add/Drop/Withdrawal* form. Incomplete forms will not be accepted.
2. Obtain the necessary approvals and signatures.
3. Return the completed form to the Registrar’s Office before the published deadline (see Academic Calendar). Save all enrollment-related paperwork for future reference.
4. Pay all expenses related to the action taken.

Add, Drop, or Withdraw After Published Deadline (Note: One-Year Deadline)

Students must petition for late add, drop, or withdrawal. Approval of requests occurring after the published deadlines will be decided by the UMW Enrollment & Attendance Committee. To initiate this process:

1. Complete a *Policy Waiver Request* form and an *Add/Drop/Withdrawal* form.
2. Obtain the necessary signatures and approvals.
3. Obtain documentation to verify the existence of extenuating circumstances that might have prevented timely action (e.g., illness, family emergency, non-attendance, registration errors, etc.). Only in verifiable and pertinent cases of emergency or extenuating circumstances are post-deadline schedule changes permitted. Reasons for late submission must be fully explained and justification well documented.

4. Return completed forms and documentation to the Registrar’s Office within one year of the end of the term in which affected course enrollment occurred.
5. Pay all expenses related to the action taken.

Typically, retroactive grade changes, dropped courses, or withdrawals do not reverse the academic suspension status that is recorded on the transcript, unless there was an error or grading mistake.

Dropping Courses and Record of Enrollment

Courses are not recorded on a student’s transcript if an official cancellation or course drop occurs on or before the deadline to drop with no record of enrollment. A “W” (Withdrawal) will be recorded in the grade section of a student’s academic transcript for drops or withdrawals that occur after this deadline.

The “No Record of Enrollment” policy/deadline will be extended in instances where there is an exchange of class:

1. the schedule change is completed within the deadline to add for the applicable block.
2. there is an even exchange – add and drop – of courses and credits (the affected student’s credit load does not change).
3. the add and drop are recorded on the same form and they are for the same block.
4. both schedule changes (add and drop) are approved by all necessary officials – course instructors, student’s advisor.
5. the exchange is appropriate to the student’s program of study.

A “W” (Withdrawal) will be recorded on the student’s transcript if the exchange does not satisfy all of these conditions.

Auditing Classes (AU)

With the consent of the instructor, students may enroll in classes on a no-credit “Audit” basis. Audit students pay the same fees as students enrolled for credit. Individuals who are auditing a class are not expected to complete coursework assignments or take course exams for that class. Audit course credits may not be used to satisfy degree or program requirements, nor do the credits count as part of the load for financial aid or athletic eligibility purposes. It is the responsibility of the person enrolling for classes to advise the Registrar’s Office before the start of a term of his/her intent to audit a course.

Changing to Audit (AU) Status

To change to audit status, students should follow the Add/Drop procedures outlined in this section. In addition to recording the appropriate course information, a student should write the word “Audit” in the applicable “CR” (credits) section of the *Add/Drop/Withdrawal* form or the *Student Schedule Change* form. Course instructor approval is required to change enrollment status. Students with questions about changing to/from audit status should contact the Registrar’s Office. Note that there is a mid-term/block deadline for changing to audit status (see Academic Calendar).

Late Fees – Schedule Changes

Late fees are charged for class schedule changes as follows:

Blocks 1 and 5: after the appropriate deadline to add or drop.

All other classes: beginning Monday of the 4th week of the semester.

Registration Policies

Students are expected to register prior to the start of a semester for all classes they plan to take that term. Students may not register for one block class at a time.

Refunds and Payments Following Class Schedule Changes

All payments and refunds associated with class schedule changes are handled through Business Services. The amount refunded is based on the date a drop or withdrawal is processed and the remaining credit load after processing the changes. For information about refunds, see Tuition & Fees section of this Catalog or contact Business Services, (406) 683-7101.

Maximum Credit Load Policy

(Note: Credit Load policies are currently under review)

Average credit load during a regular semester for full-time students is 16 semester credits, 32 credits per year, or a total of 120 or 128 credits for a four-year curriculum. To be classified as “full-time” a student must maintain active enrollment in at least 12 semester credits of college-level, degree-applicable coursework that requires attendance and/or class participation for all 16 weeks of the semester. Students attempting 12 or more credits but attending/participating less than 16 weeks are considered “part-term” students. Students enrolled in fewer than 12 credits are considered “part-time” students. See UMW Policy 203.1 Enrollment & Attendance.

Full-time and part-time definitions vary among financial aid funding agencies; consequently, students should not make assumptions regarding definitions for full- or part-time status. Because of the highly intensive nature of instruction, many institutions consider six semester credits a full-time credit load during Summer Session. Students seeking financial aid funding for time-shortened classes should contact the Financial Aid Office regarding specific student credit load definitions and enroll accordingly.

Students must petition the Academic Admissions & Standards Committee to enroll in more than the maximum credit load for a semester or term. *Course/Credit Overload Petition* forms are available at the Registrar’s Office and online (search for “Printable Forms” on the UMW website). Petitions must be submitted at least one week prior to the start of the term in which the student wishes to attempt the overload, and approval must take place before the deadline to add classes for the term or semester. Incomplete petitions or petitions with inaccurate information will not be processed. No *Course/Credit Overload Petition* forms for an overload will be accepted for consideration after the deadline to add courses for a semester or term.

Maximum Credit Load: Fall or Spring Semester

Students must petition to enroll in more than 18 semester credits; students with a GPA over 3.00 may register for up to 20 credits during a regular semester without petitioning. No more than five block course credits may be attempted in any single block. Students on Academic Probation must petition to register for more than 16 credits during a regular semester.

Early Admission students are normally limited to a maximum of four semester credits during any time-shortened session or combination of sessions; however, maximum credit load for Early Admission students will be considered on a case-by-case basis.

Maximum Credit Load: Summer Session

Students must petition to enroll in more than 14 credits during Summer Session. Students with a 3.00 GPA may attempt 15 credits without petitioning. Students on Academic Probation are limited to attempting 12 credits. Eligible students must petition to attempt more than 5 semester credits during any of the Summer Session blocks.

Early Admission students are limited to a maximum of four semester credits during any time-shortened session or combination of sessions.

Academic Probation and Suspension

1. Academic Probation

Students whose UMW GPA is below a 2.00, and first-term (new) transfer students whose transfer GPA is below 2.00, are placed on Academic Probation status (see GPA definition).

2. Continued Academic Probation

Students whose UMW GPA is below a 2.00 and who were on Academic Probation the previous term of attendance, including Summer Session, but who show improvement in their academic performance by earning a 2.00+ term GPA during the next and all subsequent terms of enrollment, are placed on Continued Academic Probation status. Students will remain on Continued Academic Probation status until their UMW Cumulative GPA meets the minimum satisfactory level of 2.00 or higher (see GPA definition).

3. Academic Suspension

Students whose UMW GPA is below a 2.00 and who, after attending one or more terms, including Summer Session, on probationary status, fail to earn a minimum 2.00 GPA during the next term of enrollment or attendance are academically suspended (see GPA definition).

Transfer students admitted to UMW on probation (their GPA at any institution previously attended is below a 2.00, or their academic status as indicated on the official transfer transcript is “on probation” or “academically suspended”) are required to earn a 2.00 GPA in their first term at UMW, including Summer Session, or face immediate academic suspension from UMW.

Upon acceptance for admission to UMW, the Admissions Office will notify transfer students of their academic status.

Academic Probation Policy

Students will be placed on Academic Probation or Continued Academic Probation at the end of any term, including Summer Session, if their UMW GPA drops below or remains below 2.00. Students placed on Academic Probation or Continued Academic Probation may enroll at UMW during the next term but are limited to registering for a maximum of 16 credits (any combination of non-block stringer and block classes) during a regular semester or four credits maximum during any Summer block (12 credits maximum). The Academic Admissions & Standards Committee retains the right to further restrict credit maximums if needed (see GPA definition).

Students on Academic Probation or Continued Academic Probation should contact their advisor, the Campus Counseling Center, the Advising Center, and any other UMW official or faculty member for guidance or assistance to improve the student’s academic performance. Contact the Dean of Students Office for services available to UMW students.

“Academic Probation” or “Continued Probation” notations are posted to a student’s permanent UMW academic record. Students who raise their UMW GPA to the minimum 2.00 will be removed from probationary status, and in most cases enrollment restrictions will be lifted.

Students placed on Academic Probation or Continued Academic Probation will be notified of their status in writing following the end of the term. Notification will explain enrollment limitations and conditions and advise students of consequences if they fail to improve their academic performance during future terms of enrollment.

Students are responsible for notifying the Registrar’s Office of changes to directory information, mailing addresses, phone numbers, etc.

Academic Suspension Policy

Students who started a term on Academic Probation or Continued Academic Probation status (their UMW GPA at the beginning of the term was below a 2.00) will be suspended from UMW at the end of that term, including Summer Session, if they fail to earn a 2.00 term GPA (see GPA definition).

A student who has been academically suspended from UMW may not enroll until officially reinstated or readmitted.

Students who are suspended a second or third time for academic reasons may not re-enroll at UMW for a minimum of one full calendar year. Reinstatement following suspension is not automatic; suspended students must petition for readmission to UMW.

Students may appeal academic suspension immediately upon notification of their status. The Academic Admissions & Standards Committee may approve appeals, but only in cases where unusual or extenuating circumstances exist. The burden of proving unusual or extenuating circumstances rests entirely with the student. An "Academic Suspension" notation is posted to a student's permanent UMW academic record.

Students suspended for academic reasons will be informed of their status in writing by the Registrar's Office as soon as possible following the end of the term. Any future term class schedules that exist in UMW's computer system prior to the end of the term of the suspension will be cancelled.

Written notification of academic suspension to the suspended student will explain available options.

Typically, retroactive grade changes, dropped courses, or withdrawals do not reverse the academic suspension status that is recorded on the transcript, unless there was an error or grading mistake.

Readmission Following Academic Suspension

Students who are suspended for academic reasons must apply for readmission to UMW. Students seeking readmission after sitting out the required suspension period must submit the following:

1. A properly completed *Application for Readmission* form (search for "Printable Forms" on the UMW website).
2. A plan outlining how the suspended student will improve academic performance if readmitted, including a statement of the student's education and career goals.
3. Any additional documents required by other UMW offices.

These documents must be submitted to the Registrar's Office at least two weeks prior to the start of the term for which the suspended student is seeking readmission. The UMW Registrar reviews and rules on these requests.

Students seeking readmission to UMW prior to their eligible return date must submit the following to the Registrar's Office:

1. A properly completed *Application for Readmission* form (search for "Printable Forms" on the UMW website).
2. A detailed statement or letter describing the extenuating circumstances causing the student's poor academic performance, including supporting documentation (e.g., statement or letter from physician if student claims a medical emergency, etc.).

3. A plan outlining how the suspended student will improve academic performance if readmitted, including a statement of the student's education and career goals, which must be reviewed by the student's faculty advisor, the Dean of Students, and the Campus Counseling Center.
4. Any additional documents required by other UMW offices.

The documents listed above must be submitted to the Registrar's Office at least two weeks prior to the start of the term for which the suspended student is seeking readmission. Readmission applications are reviewed and acted on by the Academic Admissions & Standards Committee.

Appeals of Academic Suspension

Students begin the appeal process by submitting a letter of appeal and supporting documentation to the Academic Admissions & Standards Committee (via the Registrar's Office). The next step in the appeals process is through the Provost. The Academic Calendar dictates time limits on appeals.

Transferring from UMW to Another College or University

It is the student's responsibility to determine and closely follow the admission and program course requirements at the college or university to which they plan to transfer. These requirements can normally be found in that institution's catalog. Students planning to transfer from Montana Western should obtain a current catalog from the institution to which they plan to transfer (reference copies of catalogs are usually available online at an institution's website). Students intending to transfer to another institution should work closely with their UMW faculty advisor and the intended transfer institution to ensure that the program of study being followed at Montana Western is suitable for transfer to the particular transfer institution. Students transferring to Montana University System institutions and who request Single Admissions File services will be charged the Single Admission File Fee. Contact the Registrar's Office for more information.

Caution regarding the transfer of UMW course credits: not all course credits transfer to every college or university. However, for students transferring out who "do their homework" in advance, transfer of credits from UMW is normally a smooth process if the courses taken at Montana Western are similar or equivalent to courses that would normally be taken at the transfer institution. If at any time students encounter what they consider to be a problem with transfer of UMW credits/courses to another institution, they are encouraged to contact a UMW administrator, who will assist students in working out legitimate problems with regard to course transfer. Students should provide as much information as possible (names, offices, and telephone numbers) to aid in reconciling credit or course transfer difficulties. Individuals transferring from UMW to another unit of the Montana University System who wish to have their UMW transcript evaluated for the purpose of determining completion of the General Education program should contact the UMW Registrar's Office.

Grades

The University of Montana Western utilizes a traditional letter grade system.

Grading System

The general quality of a student's work is expressed in terms of a Grade Point Average (GPA). A student's grade point average is calculated by dividing the total of all honor/grade points earned for all college-level, degree-applicable courses attempted (courses numbered 000-099 excluded) by the total semester credits of all college-level, degree-applicable courses attempted. For GPA calculation purposes, "courses attempted" includes those courses numbered 100-499 and for which a student earns grades "A" through "F". Students accumulate honor points or grade points based upon the traditional grade earned in the following chart.

Note: The following grade symbols do not earn honor points and are not used in GPA calculation: W, R, I/NC, AU, P/F/NP, S, U, #, and NR. Grades for courses numbered 000-099 (#) are not included in GPA calculation and do not apply toward graduation.

Grade		Grade Points Earned Per Credit
A	Excellent	4.00
A-		3.70
B+		3.30
B	Above Average	3.00
B-		2.70
C+		2.30
C	Average	2.00
C-		1.70
D+		1.30
D	Below Average	1.00
D-		.70
F	Failure	0

Grade reports and transcripts of students admitted to UMW before Summer 1999 show three different GPAs:

1. Institutional GPA (grade point average of courses attempted at UMW only);

2. Transfer GPA (grade point average of courses attempted at institutions other than UMW); and
3. Cumulative GPA (the average of all courses attempted at all colleges/universities, including UMW).

Since the summer of 1999, the UMW Registrar's Office discontinued posting transfer coursework detail to UMW student academic records; only the UMW GPA is calculated on student records since that time.

Pass/Fail/No Pass (P/F/NP)

A student may elect to take a course on a Pass, Fail, or No Pass basis in lieu of a traditional letter grade. Pass/Fail/No Pass graded credits may not be counted for degree-required courses with the exception of Student Teaching, Senior Project/Thesis, Internships, and all nontraditional coursework (CLEP, AP, Military Training, Tech Prep, Institutional Challenge, or Exams for Credit). Nontraditional coursework must be evaluated according to the UMW Course Equivalency List.

No more than ten credits of Pass graded elective-only coursework may be counted toward a baccalaureate degree, and no more than six credits of Pass graded elective-only coursework may be counted toward an associate degree.

A freshman or sophomore with a grade point average of 2.00 or better may take one Pass/Fail/No Pass graded course each semester. Juniors and Seniors may take more than one Pass/Fail/No Pass course per semester. Election of the Pass/Fail/No Pass grade option requires the consent of the instructor. Attempted courses that are graded Pass/Fail/No Pass are excluded from GPA calculation.

Many graduate and professional schools and some employers do not recognize Pass/Fail/No Pass graded courses. Although UMW encourages students to consider the potential value of learning without the pressures associated with traditional grades and to experiment with certain courses on a Pass/Fail/No Pass basis, students should be aware of the potential negative effects of selecting this grading option.

Incomplete Grades (I/INC)

All assignments for a class must normally be completed by the last day of the semester or a specific block, or an earlier date set by the instructor of record. Faculty may give Incompletes in situations where a student is unable to complete required coursework during the semester or block because of illness, personal emergency, or academic conditions beyond the control of the faculty or student. Faculty may not give an Incomplete to allow a student additional time to complete coursework that all other students in a class were required to complete during the published dates of a semester or term. Incompletes on a student's academic record automatically prevent and will delay graduation until a future term.

Note: Students with Incompletes on their transcripts may jeopardize financial aid funding. For more information, contact Financial Aid, (406) 683-7511.

Conditions required for assigning an Incomplete are:

1. The student must notify the course instructor of the emergency situation before the end of the semester or block, or as soon as reasonably possible.
2. Three-fourths (3/4) or more of the required coursework must have been completed by the student before the end of the semester or block.
3. The course instructor should communicate requirements or conditions for course completion in writing. This documentation should include assignments and tests. The agreement should include a deadline for completion of all work. This deadline must be within one year of the date of the Incomplete unless an earlier deadline is established by the instructor. Deadlines beyond one year may be established by the instructor under extenuating circumstances.

Minimum Grades

Unless otherwise specified in this Catalog or formally communicated by the appropriate academic department, students must earn a minimum grade of C minus ("C-") or higher to satisfy requirements for all General

Education and program course requirements and all General Education and program requirement prerequisite courses (see Minimum Grade Required to Complete Degree Requirements in this Catalog).

Final Grade Reports

Individual, and unofficial, block course grades are available via DAWGS within one week after the end of that block.

Official final grades are normally available to students within three weeks following the end of the term. Students can access final grades via the DAWGS website.

Transcripts of students who have outstanding debts or other restrictions at UMW will not be issued. Students with outstanding debts may review final grades at the Registrar's Office during normal business hours.

Transcript Requests

Transcripts are issued only upon receipt of a written request from the student and will not be released until all "Holds" at UMW have been removed (admissions requirements not completed, financial obligations not paid, etc.). Transcripts are usually available within five working days after receipt of the request. A \$3.00 processing fee is charged for each transcript requested. Students who request overnight postal service, FAX copies, or rush services, etc., will be charged additional fees/costs. Payment must be received before transcripts are released. Students paying with credit cards must provide the credit card number, type of card/issuing bank, card expiration date, and the cardholder's name as it appears on the card. Written requests for transcript service should include the student's full name and all other names used (maiden name, middle initial), Social Security Number, date and place of birth, and month and year of most recent attendance at UMW. Those requesting transcript service should include their own current address and phone number, the complete address of where the transcript should be sent, and any special services required (FAX, Fed-Ex, Rush, etc.).

Grade Changes

A change of grade may be made only in cases of instructor error, or in instances where fraud is determined. Grade change procedures are not to be used by faculty as a way of allowing certain students additional time to complete course assignments or to complete additional work once the term or block has ended.

A change of grade is not meant to substitute for an Incomplete when that grade cannot be justified. No grade may be changed after one full year from the date recorded unless approved by the instructor and the Provost. Students retain the right to appeal grades according to campus policy outlined in the UMW Student Handbook (<http://my.umwestern.edu/studentlife/>).

Typically, retroactive grade changes, dropped courses, or withdrawals do not reverse the academic suspension status that is recorded on the transcript, unless there was an error or grading mistake.

Repeating Courses (E/R)

Repeating a course is defined as re-enrolling in the same UMW course that a student previously attempted. Students may have either failed or passed the course and the purpose for repeating the course is to improve the grade. When a course is officially repeated, the most recent grade is used in the calculation of the Grade Point Average. The previous course and grade remain on the transcript but are excluded from GPA calculation. A repeated course is designated with an "E" or "R" on a student's transcript.

Students who fail UMW courses are encouraged to repeat those courses at the earliest possible time as they may have better retention of the subject matter, it improves their GPA, and it reduces the possibility that curriculum changes could make it impossible to take the same course in the future.

Academic Standing for Registration

A student is generally considered to be in good academic standing if the UMW GPA is 2.00 ("C") or higher and the student has not been placed on Academic Probation or Academic Suspension during the most recent term(s) of enrollment. A student in good standing is eligible to continue at or return to UMW.

Graduation Requirements

**Graduation does not occur automatically upon program completion; students must apply for graduation.
See Academic Calendar for deadlines.**

Catalog Governing Graduation

The effective dates of this catalog are July 1, 2013 through June 30, 2014.

Degree-seeking students should select, rigorously follow, and meet graduation requirements in the selected UMW Catalog. Students enrolling between July 1, 2013 and June 30, 2014 are allowed to follow this Catalog provided all of the following conditions are met:

1. student graduates within six years of initial enrollment (July 2020).
2. there has been continuous enrollment with no interruptions except Summer Session (Note: a student whose attendance is interrupted for two or more consecutive semesters must switch to a Catalog less than six years old that was published after the student's final readmission date).
3. student has not changed majors or degrees.
4. student has not elected to meet requirements listed in a more recent Catalog.

Students may select an alternative Catalog for graduation after initial enrollment at UMW provided:

1. student obtains faculty advisor approval.
2. Catalog selected is no more than six years old at time of graduation.
3. there has been continuous enrollment with no interruptions except Summer Session.
4. student has not changed majors or degrees.
5. student is not attempting to select/use a Catalog dated before a degree or program change.
6. student is not attempting to select a Catalog dated before the student's enrollment date began.

While students must pick an "effective catalog" or a "catalog governing graduation" and complete all basic degree requirements (Major or BA Option, General Education requirements, GPA, residency requirements, etc.) listed in that Catalog, UMW allows eligible students to select and complete requirements for a new/second Major, Minor, Option, Related Area, or General Education requirements from a second Catalog (see alternative Catalog limitations above) without having to meet all requirements in the second Catalog. Students must complete all courses required for the new Minor, second Major, BA Option, Related Area, or the General Education program as outlined in the other Catalog. Students must designate their "effective catalog" and the "other or second catalog" they are following on their graduation application and should provide this information to their advisors at an early date.

Declaration of Academic Field of Study

Students are strongly encouraged to determine the appropriate academic degree program(s) they will be pursuing as soon as possible in their academic careers. At the latest, students must declare academic fields of study upon reaching Junior status (60 credits earned). Earlier declarations are required of some students, such as those receiving federal financial aid. Upper division students must report to the Registrar's Office all degrees, Majors, Minors, Option Areas, and Related Areas toward which they are working. Students who wish to change their previously reported academic field of study must file a *Request to Change Student Information* form at the Registrar's Office, signed by the student and the student's faculty advisor.

Students who are undecided about their choice of Major should initially concentrate on taking General Education courses provided by UMW. Students should declare a major area of study with the Registrar's Office no later than the third semester of attendance in order to complete degree requirements within the normal eight semesters (four years) of study and to maintain eligibility for federal financial aid.

Change of Major or Degree

Students who change majors or degree programs must notify the Advising Office by filing a completed *Request to Change Student Information* form.

General Graduation Information

To graduate on one of the three UMW graduation dates, a degree candidate must submit a properly completed *Application for Graduation or Program Completion* form within the specified deadline and must have completed all degree requirements as certified by the University Registrar. All required courses must be satisfactorily completed and final grades filed with the Registrar's Office. All applicable paperwork (completed *Course Substitution/Waiver* forms, official transfer transcripts) must be on file in the Registrar's Office by the end of the graduation term. Candidates for graduation from UMW are responsible for ascertaining that all requirements for their intended degree program have been completed within the deadline.

Note that additional preparation, competencies, or remedial work may be specified by the department to correct any deficiencies for that academic field of study.

Minimum Grade Required to Complete Degree Requirements (General Education, Degree Program Requirements, Program Prerequisites)

Effective Fall Semester 2005, the minimum acceptable grade required by the Montana University System (MUS) to meet General Education and program-specific course requirements and program prerequisite course requirements for a degree is "C-". The minimum grade required to meet free elective requirements is "D-" (unless the institution requires a higher minimum). Students who entered the Montana University System prior to Fall 2005 and have maintained continuous enrollment since beginning their studies in the MUS (exclusive of Summer Sessions) **are not** subject to this policy. First-time freshman and transfer students entering the MUS and former MUS students who "stopped out" and are now returning to the MUS system beginning Fall 2005 and thereafter are subject to this policy.

Note: Some UMW programs require minimum grades higher than "C-". Students are responsible for ascertaining specific minimum grade requirements for courses required in their chosen programs by carefully reviewing University publications and notices sent by campus and department officials.

Minimum Grade Point Average

A minimum UMW GPA of 2.00 ("C" average) in all courses specified for a degree is required for graduation. Some degree programs may require a higher GPA. Also, GPA requirements within a degree for such things as individual Majors, Minors, Options, or Related Areas might be higher.

Required Credits

Students must complete all requirements listed for a specific degree or degrees from an approved Catalog. The Bachelor of Arts degrees, Bachelor of Applied Science degree, and Bachelor of Science degrees in Biology, Business Administration, Early Childhood Education, Environmental Interpretation, Environmental Science, Health & Human Performance, Mathematics, and Natural Horsemanship require a minimum of 120 semester credits. The Bachelor of Science degrees in Elementary Education, Secondary Education, K-12 Education, and BA and BS Double Major degrees with Secondary Education require a minimum of 128 credits. Associate degrees require a minimum of 60-70 semester credits.

Academic Residency Requirement: Bachelor's Degree

To earn a Bachelor's degree from UMW, a student must satisfactorily complete all courses required for the degree and must complete the equivalent of one academic year of full-time resident credit, minimum 30 semester credits. A minimum of 20 of the last 30 semester credits must be in residence. The last semester of work to satisfy requirements for any UMW degree must be completed in residence. A minimum of 12 semester credits earned and attendance for the full semester is necessary to establish academic residence. Fifteen semester credits of the student's Major, Broadfield, or Option, and ten credits of a student's Minor or Related Area must be completed in residence. (For more information on academic residency see pages 33-34 pertaining to Majors, Minors, Option Areas, and Related Areas.)

Academic Residency Requirement: Second Bachelor's Degree

Candidates for a second Bachelor's degree must successfully complete a minimum of 30 additional related credits above the minimum credits required for the first degree, and complete all requirements for the second degree. All additional credits for the second degree must be completed in residence. In a case where the first Bachelor's degree was earned at UMW, the last 15 credits for the second degree must be completed in residence. Written notice of intent to complete a second degree must be filed with the Registrar's Office at least one semester before graduation. Students planning to earn a second degree must complete a separate *Application for Graduation or Program Completion* form for each degree.

Academic Residency Requirement: Associate Degree

To earn an Associate degree at Montana Western, a student must complete a minimum of 16 credits while in residence at UMW. These 16 credits must be the last credits needed for the degree. A minimum of one semester of full-time study (12 credits or more) is required to establish residency. The credits required to meet residency requirements for an Associate degree must also be courses that meet either General Education requirements or are advisor-approved courses in the student's chosen area of emphasis.

Academic Residency Requirement: Second Associate Degree

Candidates for a second Associate degree must successfully complete all courses required for each Associate degree or complete 16 additional credits beyond the 60 credits required for the first degree, whichever is greater. General Education requirements used to satisfy requirements for the first Associate degree may be used to satisfy General Education requirements for the second degree with advisor and applicable academic department approval only. Students planning to earn a second degree must complete a separate *Application for Graduation or Program Completion* form for each degree.

Course Application to Degree Requirements: Single Course with Multiple Applications

Courses may be used to satisfy more than one degree requirement by approval of a student's advisor and the Provost. Students pursuing completion of degree programs that include course overlaps must seek official approval for these overlap substitutions through their advisors (e.g., some of the courses required for a specific Major or Minor may also be required as part of a second Major or Minor, or as part of General Education or Professional Education requirements). All other course substitutions or waivers must be approved and documented on *Course Substitution/Waiver* forms and must be on file in the Registrar's Office prior to applying for graduation. Refer to General Information section, Definitions, "Substitution (course)".

Nontraditional Credits Applied to a Degree

No more than 30 semester credits of nontraditional coursework (CLEP, AP, Military Training, Credit by Exam, correspondence courses, Directed Study, Independent Study, Tech Prep, etc.), may be counted toward any degree at UMW. Specifically, no more than 20 semester credits of correspondence study approved by the appropriate department may be counted toward the degree, and no more than three courses in Independent Study may be counted toward the degree.

Academic Standing for Graduation

Students applying for graduation must be in good academic standing at UMW and all other colleges/universities previously attended.

Variances From Degree-Specific and/or General Education Requirements

Variances from published degree-specific and General Education requirements must be documented. Documentation must be submitted on a timely basis (before the end of the graduation term specified on the student's *Application for Graduation or Program Completion* form). Examples of the most common variances include:

- substituting a non-specified course for a required course as published in the Catalog (complete a *Course Substitution/Waiver* form). Refer to General Information section, Definitions, "Substitution (course)".
- waiving a degree requirement based upon satisfactory completion of work done in a nontraditional setting (complete a *Course Substitution/Waiver* form). Refer to General Information section, Definitions, "Waiver".

Applying for Graduation

A student planning to earn an Associate or Bachelor's degree from UMW must file for candidacy on an *Application for Graduation or Program Completion* form with the Registrar's Office. Students planning to earn two or more degrees must complete an *Application for Graduation or Program Completion* form for each degree and pay all applicable fees. Students who submit their *Application for Graduation or Program Completion* form by the early submission deadline will receive an audit of their academic record prior to the start of their last semester before graduation (see chart below). This audit helps determine any deficiencies in the requirements for graduation. The deadline for receiving an audit is listed in the table below under "Early Submission Deadline."

Students who miss the early submission deadline may still graduate if their *Application for Graduation or Program Completion* form is received by the "Final Application Deadline" listed in the table. However, these students will likely not receive a graduation audit before their last semester prior to graduation. Note that if it is discovered that a student has an academic deficiency, the student's graduation will be delayed to the next term.

Application for Graduation or Program Completion forms received after the final deadline will be accepted for the next applicable graduation date.

Graduation Application Submission Dates		
For students graduating at the end of:	Early Submission Deadline	Final Application Deadline
Spring Semester	May 1 of the previous year	January 7
Summer	Sept 15 of the previous year	May 1
Fall Semester	March 15 (of the previous spring semester)	September 1

Example: A student who plans to graduate at the end of Spring Semester and files an *Application for Graduation or Program Completion* form by May 1st of the previous year will receive a graduation audit before the start of Spring Semester. If that same student files the *Application for Graduation or Program Completion* form after May 1st but before January 1st, the student has met the graduation application deadline for spring graduation but will likely not receive a graduation audit before the start of Spring Semester. If the student misses the January 1st application deadline, the graduation date will be moved to Summer.

Graduation Application Procedure

1. Obtain an *Application for Graduation or Program Completion* form at the Registrar's Office. Students seeking a BS degree in Education should apply for graduation when applying for student teaching.
2. Obtain signatures from the following:
 - a. Faculty Advisor.
 - b. Financial Aid Office.
 - c. Business Services.
3. Return completed *Application for Graduation or Program Completion* form to the Registrar's Office on or before the published deadline. Complete all questions and obtain all necessary approvals. Applicants are responsible for meeting filing deadlines.
4. Applicants for BS degrees in Education must present a completed *Application for Student Teaching* form when submitting completed graduation applications.
5. Pay all graduation fees.

Applications of students not meeting degree requirements by the end of the semester or term indicated on the *Application for Graduation or Program Completion* form will be placed in an inactive status until they send written notification of a new desired term for graduation and pay the \$10 audit fee. The inactivated application will remain on file for a maximum of one year from the term of the original application, and can be reactivated by:

1. contacting the Registrar's Office in writing and providing a new/anticipated graduation date/term, and
2. paying the \$10 graduation audit fee.

Individuals who fail to activate previously submitted graduation applications within the one-year period will have to re-apply for graduation (switch to the most recent Catalog, complete a new *Application for Graduation or Program Completion* form, and pay the \$25 graduation application fee).

After an *Application for Graduation or Program Completion* form has been filed, the student must notify the Registrar's Office of any changes to graduation status, such as semester of graduation, Majors, Minors, Options, Related Areas, or change of name and address. Students may be required to reapply depending upon the change made and the timing of such notification. Students should notify the Registrar's Office of any changes to their mailing address.

Application for Program Completion

Graduates with a Bachelor's degree from Montana Western or any regionally accredited institution who are attending UMW for the sole

purpose of completing a program (second Major, Minor, Option, or Related Area) and not earning a degree, must meet the following requirements before being certified as having completed the selected program:

1. satisfy academic residency requirements.
2. successfully complete all prerequisite and required courses for the program.
3. meet all grade point average requirements of the appropriate program.
4. submit a completed *Application for Graduation or Program Completion* form to the Registrar's Office and pay appropriate fees by the published deadline.

The procedures & policies listed in this Catalog supersede those published previously and are subject to change at any time.

Classification/Types of Students

Classification of Students

1. **Freshman**--a degree-pursuing student who is entitled to unconditional admission and who has earned fewer than 30 semester credits.
2. **Sophomore**--a fully admitted, degree-pursuing student who has earned 30 to 59 semester credits.
3. **Junior**--a fully admitted, degree-pursuing student who has earned 60 to 89 semester credits.
4. **Senior**--a fully admitted, degree-pursuing student who has earned 90 or more semester credits.
5. **Post-baccalaureate**--a fully admitted student holding a baccalaureate degree from a regionally accredited college or university, or an approved foreign university.
6. **Provisionally Admitted Student**--a student who does not meet all of the standard admissions requirements.
7. **Transient Student**--a student over 19 years of age with no previous academic record on file at the UMW Registrar's Office and who has not met all requirements for admission and who may or may not be degree-pursuing.

Types of Students

Continuing or Returning Student--a fully admitted student who completed the most recent term of enrollment at UMW in good academic standing and as such is eligible to enroll for classes during the next term. Spring Semester or Summer Session are considered the last regular semester for students returning for Fall Semester.

Current Student--a student who is officially enrolled and attending classes at UMW or one of its off-campus centers.

Dismissed/Suspended Student--a former or previous student who, due to poor academic performance or disciplinary reasons, is prohibited from enrollment at UMW. Dismissed or suspended students may petition for readmission by filing an *Application for Readmission* form at the Registrar's Office.

Former/Previous Student--an individual who attended UMW at some time in the past and who:

1. was not actively enrolled at UMW during the most recently completed regular semester; and
2. was in good academic standing when last enrolled at UMW.

Former students who have not attended UMW for one year or more must file an *Application for Readmission* form with the Registrar's Office before resuming their studies at UMW.

Full-Time Student--for financial aid or athletic eligibility purposes, a student officially registered for a minimum of 12 semester credits of courses that require a minimum of 16 weeks of class attendance or participation during a regular semester.

Honor Student--a student who, upon completing degree requirements, has maintained at least a 3.33 UMW GPA and has completed at least 30 semester credits of resident college-level coursework applicable to an undergraduate degree. Minimum institutional GPA required for "Honors", "High Honors", and "Highest Honors" are:

- 3.33-3.64 *cum laude*
- 3.65-3.84 *magna cum laude*
- 3.85-4.00 *summa cum laude*

Eligibility for UMW honors designation is determined after all final grades for all courses attempted up to the date the degree is conferred are posted to the graduate's academic record.

- **Rush Jordan Cup:** awarded annually to the male Senior ranked first in his graduating class.
- **Zella K. Flores Cup:** awarded annually to the female Senior ranked first in her graduating class.

International (Foreign) Student--A student who is a citizen of a country other than the United States.

Non-Resident Student--a student who is classified as an out-of-state resident for MUS fee payment purposes.

Part-Term Student--a student officially registered for a minimum of 12 semester credits of courses that require less than 16 weeks of class participation during a regular semester. Financial aid is pro-rated for part-term students. Part-term students are not eligible for intercollegiate athletics.

Part-Time Student--a student registered for less than 12 credits during a regular semester. Financial aid is pro-rated for part-time students. Part-time students are not eligible for intercollegiate athletics.

Probationary Student--a student who is having academic difficulty and who has been conditionally allowed to return to UMW to improve his/her academic standing.

Resident Student--a student who is classified as a Montana resident for MUS fee payment purposes.

Transfer Student--a student who is fully admitted to UMW that attended another college or university and completed or attempted 12 or more credits of college-level, degree-applicable coursework in residence at that institution.

Definitions of Academic Terminology

Advanced Placement (AP) Program

Credit earned by satisfactory completion of the Advanced Placement Tests from the College Entrance Examination Board. Official AP score reports must be sent directly from the College Board to the UMW Registrar's Office. Credit for specific examinations will be subject to UMW approval. Credits to be applied to specific course or program requirements must be approved by the appropriate department's faculty. Credit earned through AP is graded "P" (Pass).

Attendance or Attending

Registering for and actively participating in learning/instruction activities associated with a class or classes.

Block (Experience One)

A four-week learning module usually consisting of 18 days of instruction. UMW operates on a semester system, including four 4-week blocks. Individual blocks are not to be construed as separate "terms of enrollment" (see "Term" definition).

Canceling University Enrollment for a Term

To cancel one's enrollment for a term is to drop all classes prior to the beginning of a term/semester. Individuals who wish to cancel their enrollment for a term must submit written notice to the UMW Registrar's Office before the beginning date of the term/semester for which they are registered. The University retains the right to cancel the class schedules of students who fail to complete the registration procedure or those who are dismissed from UMW for disciplinary reasons (refer to Course Schedule Changes section, page 25).

College Level Examination Program (CLEP)

Credit may be earned for satisfactory completion of the College Entrance Examination Board (CEEB) College Level examinations. Official score reports must be sent from The College Board directly to the UMW Registrar's Office. Credit for specific General Examinations and/or Subject Examinations will be subject to the approval of the University as listed on the UMW Course Equivalency List. Applicability of CLEP credits to specific course or program requirements at UMW must be approved by appropriate department faculty. Credits received through CLEP will be issued "P" (Pass) grades.

Common Course Numbering (MUS)

All undergraduate courses in the Montana University System (MUS) must go through a common course numbering process. This means that all courses deemed to be equivalent must possess the same course prefix, number, and title. Such courses will directly transfer on a one-to-one basis with equivalent courses at the receiving institution. The first set of commonly numbered courses was available for student enrollment for fall 2009. The OCHE Common Course Numbering Transfer Guide is available at: http://mus.edu/Qtools/CCN/ccn_default.asp

Course

A single instructional subject commonly described by department/subject/rubric, title, number, and credits in the UMW Catalog or Schedule of Classes.

Course Challenge Exams

The process of taking special Institutional Course Challenge exams to earn credit for a class based upon knowledge, skills, or competencies learned or mastered outside the normal classroom setting.

Course Exchange

The process of simultaneously dropping and adding courses covering the same time period or part of the term (e.g., "Block 3") with an even exchange of courses/credits and within the deadline for such action.

Credit

A quantification of student academic learning. One credit represents what a typical student might be expected to learn in one week of full-time study (40-45 hours including class time and preparation). An alternative norm is one unit for three hours of student work per week

(one hour of lecture plus two hours of study, or three hours of laboratory) for a 16-week semester.

Credit by Exam (Course Challenge)

The process of taking special examinations in courses for credit without enrolling in the courses. When a student has evidence of having covered the course content through life experience or formal post-secondary study such as vo-tech school, business college, proprietary school, or other non-college instruction, the student may request permission for credit by exam. Regular tuition and fees are charged for exams. Credit earned via course challenge or institutional challenge exam is graded "P" (Pass).

Credit Load

Total credits for which a student is officially registered at the start of a term.

Curriculum

A combination of courses arranged in sequence by years that constitutes a program of study leading to a degree.

Dean's List

Announced at the end of each regular semester. All full-time undergraduate students earning a semester GPA of 3.33 or higher are listed on the Dean's List for that semester. Courses numbered less than 100 and those for which a "P/F/NP" grade is issued do not count in the 12 credits required to be on the Dean's List.

Degree

The formal distinction or recognition conferred upon successful completion of a unified, institutionally preordained program of study (curriculum).

Directed Study (DS) [Classes not listed in Term Class Schedule]

An approved catalog course not scheduled to be taught during a specific term. An approved DS contract must be filed on a timely basis (prior to the start of a term) in the Registrar's Office before a student is allowed to enroll in a Directed Study course.

Directed Study (DS) [Classes listed in (current) Term Class Schedule]

Approved catalog courses routinely listed on term class schedules in which individual students complete learning objectives/outcomes directed and approved by the course instructor (example: ARTZ 490 series courses). Because these courses are listed on the current class schedule each term, students are not required to complete DS contracts; however, instructor consent is required.

Double Major (BA/BS with Secondary Education)

A prescribed combination of courses constituting a primary program of concentration in a specific discipline in the Bachelor of Arts and Bachelor of Science degrees, coupled with the Professional Education requirements of the BS degree in Secondary Education. The Secondary Education major is not a stand-alone major. It must be taken in combination with a major in a subject that leads to teaching licensure in the state of Montana. Transfer students must complete a minimum of 15 credits of approved resident study in each Major.

Drop a Course/Courses

To officially cease enrollment in a course. Students officially drop classes by accessing DAWGS (UMW online enrollment information system) and completing the drop procedure prior to the start of a term/semester, or by completing the appropriate paperwork at the Registrar's Office. Once registered, students are officially enrolled in a class or classes until they drop a class, withdraw from the University (drop all classes), or cancel their enrollment (before the start of the term/semester). Students should review class schedule change procedures and the current Academic Calendar in this Catalog for deadlines to drop a class or withdraw from UMW. Dropping all classes for a term constitutes "Withdrawal from the University"

(see “Course Schedule Changes”). Students are not allowed to drop classes that have ended nor can they drop classes for which the deadline to drop has passed.

Education Goal (Student)

The degrees (Major, Minor, Option, Related Area) a student plans to complete while enrolled at UMW. New students are asked to communicate their education goals when they apply for admission to Montana Western or as soon as possible thereafter (use *Request to Change Student Information* form).

Eligibility

Eligibility for participation in athletics or other campus activities is determined by meeting specified qualifications. Students engaging in an intercollegiate activity of the University or holding an ASUMW office must abide by the regulations of the respective conference or national association as well as UMW rules and regulations. ASUMW officers must not be on scholastic or disciplinary probation at any time during their term of office. Eligibility of all participants in intercollegiate extracurricular activities must be certified by the Registrar’s Office before participation and will require that an eligible student enroll in and attend academic classes covering the entire 16 weeks of a semester. To be eligible to participate in varsity or junior varsity athletics, students must be registered as a full-time student.

Enrollment Status (Student)

A student semester designation that is determined based on weeks of actual attendance and credit load. There are three student enrollment status designations: full-time, part-term, and part-time (see “Classification/Types of Students” for each designation).

Grade Point Average (GPA)

A numerical value of the average quality of a student’s academic work at an institution. GPAs are usually expressed on a 4.00 scale (4.00=highest, 0.00=lowest). GPAs are calculated by dividing the total of all grade/honor points earned by the total credits attempted. Note: “P” graded courses, OXX courses, repeated courses, and withdrawn or dropped courses are excluded from GPA calculation.

Graduation with Honors

Recognition of a student who, upon completing degree requirements, has maintained at least a 3.33 UMW GPA and has completed at least 30 semester credits of resident college-level coursework applicable to an undergraduate degree. Minimum institutional GPA required for “honors”, “high honors”, and “highest honors” are:

- 3.33-3.64 *cum laude*
- 3.65-3.84 *magna cum laude*
- 3.85-4.00 *summa cum laude*

Eligibility for UMW honors designation is determined after all final grades for all courses attempted up to the date the degree is conferred are posted to the graduate’s academic record.

- **Rush Jordan Cup:** awarded annually to the male Senior ranked first in his graduating class.
- **Zella K. Flores Cup:** awarded annually to the female Senior ranked first in her graduating class.

Holds

A temporary designation on a student’s record indicating the need for that student to rectify specific deficiencies in their file or account. A Hold prohibits the student from gaining access to their account, registering for classes, viewing grades, obtaining transcripts, or other requests for service until the deficiency is fulfilled. Students are responsible for “clearing” Holds as soon as possible.

Honors Endorsement for Graduation

Students must have taken at least four Honors seminars, with at least two seminars at the 300- or 400-level. To be eligible to register for an Honors Seminar, students must first apply and be accepted into the Honors Program. A completed *Application to Graduate with Honors Endorsement* form (search for “Printable Forms” on the UMW website) must be returned to the Registrar’s Office together with graduation application materials.

Independent Study (IS) Course

Individual coursework that extends beyond the scope of the listed catalog courses. An approved Independent Study contract must be filed in the Registrar’s Office before a student is allowed to enroll in an Independent Study course. Paperwork filing deadlines apply.

Major (BA, BS)

A prescribed combination of required courses constituting a primary program of concentration in a specific discipline in the Bachelor of Arts and Bachelor of Science degrees. Transfer students must complete a minimum of 15 credits of approved resident study in the Major.

Minor (BA)

A prescribed combination of courses that provides the student with in-depth knowledge that complements a chosen Bachelor of Arts or Bachelor of Science degree. A Minor taken with the BA Major is completed within the 120 credit requirement for the degree. Transfer students shall complete a minimum of 10 credits of approved resident study in the Minor.

Minor (BS)

A prescribed combination of courses in a specific discipline (subject area) in the BS Education degrees constituting a program of lesser concentration (fewer courses) than the Major. Transfer students shall complete a minimum of 10 credits of approved resident study in the Minor. A Minor taken with the BS degree in Education is completed in addition to the 128 credits required for the Education Majors.

Nontraditional Courses/Credits

University credits or courses that are earned or offered outside the normal university classroom. Examples of nontraditional courses or credits are those earned through CLEP, Military Training, Advanced Placement, Tech Prep, Institutional Challenge Examinations, correspondence courses, and Directed or Independent Study courses (see pages 12 and 30).

Official Transcripts

The term “official” in reference to academic credentials indicates the documents are forwarded directly to UMW by the school principal, college registrar, or originating agency. An official transcript must bear the official signature, stamp, or seal of the issuing agency. Faxed copies or copies stamped “Issued to Student” are not considered official records.

Option Area (BA, BAS, BS)

A prescribed combination of courses that constitute a thematic program of study designed to provide the student with a broad but rigorous background in preparation for future employment or educational endeavors. Transfer students shall complete a minimum of 15 credits of approved resident study in the Option Area.

Prerequisites (Prereq) and Corequisites (Coreq)

“Prereq” indicates specific requirements that must be met before enrollment in a course, such as course(s) satisfactorily completed, appropriate signatures obtained, etc. “Coreq” indicates courses that must be registered for and taken at the same time or within the same term/semester.

Registration or Registering

The process of enrolling or signing up for classes at UMW and paying all costs associated with such enrollment within the published deadlines for the term (refer to Student Enrollment & Attendance Policy 203.1).

Related Area (BA)

A prescribed combination of courses that focuses on a specific subject area and provides the student with in-depth knowledge that complements a chosen Option in the Bachelor of Arts degree. Transfer students shall complete a minimum of 10 credits of approved resident study in the Related Area.

Repeat (Course)

To attempt a specific UMW class a second or third time.

Residency Classification for Fee Purposes (In-State, Out-of-State)

All individuals are classified as in-state or out-of-state for purposes of paying tuition and fees. Montana residency requirements are outlined in the MUS Regents Policy 940.1. Students not initially classified as Montana residents who wish to have their residency status reviewed should contact the Registrar. Determination of residency status is based upon information provided on the Board of Regents *Residency Questionnaire* and applicable documentation. Contact the UMW Registrar's Office for the MUS Regents Residency Policy and the *Residency Questionnaire*.

Residency Academic Requirement for Degrees

To earn a degree from UMW, students must complete a minimum amount of coursework as enrolled students on the UMW campus. Students must satisfactorily complete the equivalent of one academic year or two semesters of full-time on-campus study (32 semester credits minimum) to earn a Bachelor's degree at UMW. Students pursuing an Associate degree at UMW must successfully complete a minimum of 16 semester credits of on-campus coursework. However, students must satisfactorily complete all courses required for a degree and complete minimum residency requirements, whichever is greater. A minimum of 20 of the last 32 credits toward the Bachelor's degree must be in residence. The last semester, 12 credits minimum of work to satisfy requirements for any degree must be in residence. A minimum of 12 credits earned and attendance for the full semester are necessary to establish a semester of residence.

Academic Residency Requirement* (page 29):

Major—15 credits

Minor—10 credits

Option Area—15 credits

Related Area—10 credits

*Residency course credits must be academic department-approved.

Semester

A 16-week period of enrollment (Fall and Spring) at the start of which students register for all courses they plan to attempt. UMW operates on a semester system. There are four blocks during a semester.

Substitution (Course)

Replacement of a required course by another approved course. A specific course may generally be used to satisfy one specific graduation requirement. *Course Substitution/Waiver Request* forms are available at the Registrar's Office. Generally, students should complete and file a *Course Substitution/Waiver Request* form whenever they complete a course that is an approved deviation from course degree requirements outlined in their effective Catalog.

Summer Session

A 12-week term of enrollment consisting of three 4-week blocks offered from May to August.

Tech Prep Program

A program negotiated between UMW and specific Montana high schools that evaluates and approves certain high school courses for university credit at Montana Western. Written agreements between area high schools and UMW specify which courses can be articulated and outline minimum competencies and levels of knowledge and achievement that must be met to earn credit. To earn credit, students must usually matriculate at UMW within two years of completion of the courses that meet Tech Prep requirements. Tech Prep credits do not meet residence requirements and the program is considered a nontraditional method of earning credit. Other limitations apply. Contact the UMW Tech Prep Coordinator for more information.

Teacher Education Program (TEP)

The professional education program offered through the UMW Education Department. Education degree-seeking students must purchase a copy of the Teacher Education Program Student Handbook at the Campus Bookstore, which explains processes necessary for admission into the Teacher Education Program.

Term

A semester (either Fall or Spring) or Summer Session; a 4-week block is **NOT** considered a term of enrollment.

Transcript of the Academic Record

A complete summary of a student's academic performance at Montana Western. A student's UMW transcript may include a summary of credits attempted at other colleges/universities. However, the UMW transcript should not be considered an official record of work completed at other institutions. The official UMW transcript bears the signature of the Registrar and the UMW seal. Official transcripts are sent directly to a third party or are to be received by a third party in a sealed UMW envelope. All other copies are unofficial, including transcripts marked "student copy". The Academic Record is a permanent record that reflects the unabridged academic history of a UMW student, and an unofficial summary of all college-level coursework the student attempted at institutions attended prior to the student's enrollment at UMW.

Waiver (Course)

A waiver is an exemption from a degree requirement. Waivers must specify the basis for the exemption and be approved by the department course instructor or committee and the Provost. Students waiving a course do not receive course credits. *Course Substitution/Waiver Request* forms are available at the Registrar's Office.

Withdrawal from the University

To officially drop ALL classes for the term/semester and cease attendance. Review the "Course Schedule Change" section of this Catalog for procedures on how to withdraw, and refer to the Academic Calendar for withdrawal deadlines. Students may not withdraw from block classes that have ended nor from classes for which the deadline to withdraw has passed.

Tuition & Fees

Business Services
James E. Short Center
710 S Atlantic
Dillon MT 59725-3598
(406) 683-7101

A student's registration is not complete until all fees are paid or until fee payment arrangements have been made; deadlines apply.

The Business Services Office provides accounting and business services and strives to serve students in an efficient, effective, and timely manner in compliance with appropriate University, state, and federal regulations. The information that follows will help guide the student in understanding UMW's fees, the costs associated with higher education, and the policies surrounding these issues.

According to federal law, a student's financial and academic account is posted under the student's name, not the parents'. Therefore, all fee statements, bills, and refund checks are mailed **to the student, not the parent(s)**. However, refund checks generated as a result of a Parent PLUS loan are mailed to the parent(s) unless the UMW Financial Aid Office has received written authorization to disburse the funds to the student.

Students are personally responsible for knowledge of policies and procedures governing payment of fees at the time stated in the Academic Calendar. To finalize registration, students must complete the mandatory electronic *Registration Finalization* form through the student's account in DAWGS.

Checks should be made payable to UMW for the exact amount due for fees, board and room, and other necessary expenses.

A check presented to UMW that is subsequently returned by the bank for insufficient funds or other reasons will cause the student to be charged a returned check service charge of \$15 in addition to the face value of the check. If payment for a returned check including the \$15 returned check charge is received after the fee payment deadline, UMW will also assess a late registration fee of \$40. An additional \$40 late registration fee will be charged if registration/payment has not occurred by the 15th instructional day. See Academic Calendar for applicable dates and deadlines.

Montana Board of Regents policy permits students to pay fees in three installments. During a 16-week academic term, this policy provides that one-third (1/3) of all charges plus the \$30 deferred payment fee are paid at registration, another one-third (1/3) within 30 days of registration, and the final one-third (1/3) within 60 days of registration. A \$30 deferred payment service fee is charged for deferring fees. A *Deferred Payment Contract* (available at Business Services or on the web at <http://dawgs.umwestern.edu/login/>), must be signed and returned to Business Services.

Business Services Policies

Monthly Bill Statements

A statement will be sent to students once before the beginning of each semester. Thereafter, billing statements will be electronic. Students may access their bills anytime online through their DAWGS account. It is the student's responsibility to keep mailing addresses current through DAWGS online. Students are responsible for all tuition payments even if they have not received a billing statement.

Non-Payment

Any person who owes UMW any fees, fines, or other charges, regardless of the amount owed, will not be allowed to do any of the following until the full amount due has been paid or satisfactorily adjusted with Business Services:

1. receive academic credit or grades.
2. register for classes.
3. obtain any transcript, diploma, or record.
4. access any University facilities or services.

A late fee will be assessed the day after the due date if there is a balance due. Any attorney's fees or other costs or charges necessary for the collection of the amount owed may be added to the outstanding balance.

Tuition & Mandatory Fee Schedules

Fall/Spring 2013-2014

Information about student fees provided in this Catalog is based upon rates for the **2013-2014** academic year. For a current schedule of tuition and fees, see the UMW website at <http://my.umwestern.edu/administration/business/Fees13-14.pdf>. The summary tables of fees listed below are the per-credit, per-semester charges for resident, nonresident, and Western Undergraduate Exchange (WUE) students. All majors in Natural Horsemanship pay additional program tuition of \$1,500.00 per semester.

Undergraduate								
Credits	Undergraduate-Lower Division (0-59 earned credits ¹)				Undergraduate-Upper Division/Post-Baccalaureate (60 and above earned credits ¹)			
	Resident		Nonresident		Resident		Nonresident	
	Tuition Fee	Mandatory Fees	Tuition Fee	Mandatory Fees	Tuition Fee	Mandatory Fees	Tuition Fee	Mandatory Fee
1	\$ 128.75	\$ 141.25	\$ 572.42	\$ 144.25	\$ 179.50	\$ 141.25	\$ 589.10	\$ 144.25
2	257.50	153.55	1,144.84	159.55	359.00	153.55	1,178.20	159.55
3	386.25	165.85	1,717.26	174.85	538.50	165.85	1,767.30	174.85
4	515.00	178.15	2,289.68	190.15	718.00	178.15	2,356.40	190.15
5	643.75	190.45	2,862.10	205.45	897.50	190.45	2,945.50	205.45
6	772.50	202.75	3,434.52	220.75	1,077.00	202.75	3,534.60	220.75
7	901.25	463.80	4,006.94	484.80	1,256.50	463.80	4,123.70	484.80
8	1,030.00	476.10	4,579.36	500.10	1,436.00	476.10	4,712.80	500.10
9	1,158.75	488.40	5,151.78	515.40	1,615.50	488.40	5,301.90	515.40
10	1,287.50	500.70	5,724.20	530.70	1,795.00	500.70	5,891.00	530.70
11	1,416.25	513.00	6,296.62	546.00	1,974.50	513.00	6,480.10	546.00
12+	1,545.00	525.30	6,869.04	561.30	2,154.00	525.30	7,069.20	561.30

¹ Cumulative credits/hours earned (at all institutions). Transfer students who have more than 60 earned credits from other institutions and who do not submit their transcripts on a timely basis may have significant increases from their initial billing after transcripts are received by the Registrar's Office. They will be reclassified as Undergraduate Upper Division students and their fees will be adjusted accordingly if the transfer evaluation determines the student is upper division.

WUE ² Western Undergraduate Exchange				
Credits	WUE Lower/Upper Division (Western Undergraduate Exchange)			
	Lower (0-59 earned credits)		Upper (60 and above earned credits)	
	Tuition Fee	Mandatory Fees	Tuition Fee	Mandatory Fees
1	\$ 193.10	\$ 144.25	\$ 269.20	\$ 144.25
2	386.20	159.55	538.40	159.55
3	579.30	174.85	807.60	174.85
4	772.40	190.15	1,076.80	190.15
5	965.50	205.45	1,346.00	205.45
6	1,158.60	220.75	1,615.20	220.75
7	1,351.70	484.80	1,884.40	484.80
8	1,544.80	500.10	2,153.60	500.10
9	1,737.90	515.40	2,422.80	515.40
10	1,931.00	530.70	2,692.00	530.70
11	2,124.10	546.00	2,961.20	546.00
12+	2,317.20	561.30	3,230.40	561.30

² Western Undergraduate Exchange (WUE) – Students from Alaska, Arizona, California, Colorado, Hawaii, Idaho, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming may be eligible for the Western Undergraduate Exchange program. Upon notification of eligibility, these students will pay 1.5 times the incidental fee for resident students plus all other fees applicable to non-resident students. Contact Admissions for more information on WUE Scholarships. All majors in Natural Horsemanship pay additional program tuition of \$1,500.00 per semester.

Mandatory Fee Schedule Definitions

All students are required to pay tuition and mandatory fees. All costs for a term must be paid, or satisfactory payment arrangements made, by the end of the third day of the semester/term, after which late fees will be charged (see Academic Calendar for applicable dates).

Non-Refundable Fees (Assessed from the 1st Credit)		
Orientation Fee	Assessed once to every new/transfer student admitted to UMW.	\$75
Registration Fee	Applied to processing costs; assessed each semester of registration.	\$30
Admission Application Fee	Must accompany all applications for admission.	\$30
Fees Assessed from the 1st Credit		
Academic Equipment Fee	Applied to the purchase, lease, and maintenance of equipment, which will provide a primary benefit to the instructional program, including library, faculty, laboratories, and other related acquisitions.	\$3.90/credit up to 12 credits per semester
Academic Facilities Fee	Student-initiated fee to remodel classrooms and laboratories. The remodeling of classrooms and laboratories was initially financed through the issuance of bonds. This fee repays the bond indebtedness and provides funds for classroom and lab maintenance.	\$2.05/credit up to 12 credits per semester
Academic Support Center Fee	The Academic Support Center provides academic assistance services to all students. The fee assessed students supports tutoring services.	\$9 up to 6 credits, \$14 at 7 credits or more per semester
Building Fees	Applied to the long-term debt and used for the acquisition and renovation of buildings, parking lots, or campus infrastructure. Students obtain a parking decal at no charge that allows them to park on campus, except in restricted spaces, with payment of this fee.	\$26.50 up to 6 credits, \$84.50 at 7 credits or more; Nonresident students are charged an additional \$3/credit up to 12 credits per semester
Computer Fee	Used for the purchase, lease, and maintenance of computer equipment, software, or related items that benefit the instructional program, including state-of-the-art computer labs.	\$4/credit up to 12 credits per semester
Radio Fee	Student-initiated fee applied toward support of the student radio station.	\$20/semester
Student Union (SUB) Fee	Used to pay a portion of the operating costs, including debt service, for the Student Union Building.	\$14.95 up to 6 credits, \$28.20 at 7 credits or more per semester
Technology Fee	Used to keep the campus infrastructure updated for current core technology (licensing, internet access, email/media distribution, library systems, learning management system, course enhanced software, wiring, switching) as well as provide staff support for these critical instructional/administrative services. The UMW administration and ASUMW Student Senate agree to expenditure budget for these fees each year.	\$3.35/credit up to 12 credits per semester
Tuition	Applied to instructional costs; varies by student classification and number of credits taken.	Varies
Wescolite/Fine Arts Fee	Student-initiated fee applied toward costs of publishing the student newspaper re-purposed to help students access fine art/cultural events.	\$3/semester
Transportation Fee	Applied to InterCap loan payment for new vehicles necessary to replace 12-passenger vans.	\$7.50 up to 6 credits, \$15.00 at 7 credits or more per semester
Library Fee	Student-initiated fee applied toward costs of increased library hours.	\$10.00 up to 6 credits, \$20.00 at 7 credits or more per semester
Experiential Learning Grant Fee	Student-initiated fee to support student experiential learning opportunities.	\$3.00 up to 6 credits, \$6.00 at 7 credits or more per semester
Fees Assessed at the 7th Credit		
Activity Fee	Student-initiated fee applied to the Associated Students of the University of Montana Western (ASUMW) organization; this fee provides support to ASUMW services and activities.	\$58.50/semester with 7 or more credits
Athletic Fee	Helps to support intercollegiate athletic programs and comply with gender equity laws. Students can attend all UMW sporting events, except tournaments, at no additional charge.	\$35.00/semester with 7 or more credits
Health Service Fee	UMW has contracted with a health care provider to provide medical services for students. This fee provides for a Campus Counselor, free access for students to the Community Health Center services, and a Student Wellness program including fitness equipment.	\$51.50/semester with 7 or more credits
Medical Insurance Fee	All students are required to have medical insurance while attending UMW. Students enrolled for seven (7) or more credits for either Fall or Spring Semester will be charged for the student insurance plan on their schedule bill for that semester. Students have until the 15 th class day of each term to waive this student insurance coverage at Business Services. Students who drop below four credits by the 15 th class day and have not specifically requested insurance are automatically dropped from the plan and the premium amount is credited to the student's account. Students that withdraw from UMW after the 15 th class day will still be charged and covered by UMW's Student Health Insurance. The student insurance plan is available to all students taking a minimum of seven (7) credits. Contact Business Services for information.	Assessed per semester. Contact Business Services for current rates.
Recycling Fee	Student-initiated fee supports the campus recycling program.	\$2/semester with 7 or more credits

Special/Other Fees

Auditor Tuition Fee	Students auditing courses are assessed the same fees as if courses were taken for credit.	Varies
Cooperative Student/Internship Fee	Per credit hour.	\$10 Maximum
Course Fees/Field Trip Fees¹	Variable.	Varies
Deferred Payment Service Charge	To set up a deferred student installment plan.	\$30
Distance Learning Fee – ECE Sites	Per credit hour.	\$15
Certification Fee	Per credit hour.	\$20 Maximum
Distributed Online Learning Fee	Per credit hour.	\$45
E-Commerce Fee	Per transaction fee charged to persons making online payments to UMW via credit card.	\$10 Maximum
Key Replacement Fee	Replacement fee for lost dormitory room key.	\$60
Late Deferred Payment Fee	Late charge for default or delinquency of deferred student installment plan.	\$15
Late Add/Drop Fee	Per course, if Add/Drop approved.	\$10
Late Registration Fee	Maximum of two fees may be charged per semester.	\$40
Graduation Fee	Per degree.	\$25
Graduation/Program Completion Audit Fee	Per degree audit.	\$10
Out-of-State Student Teaching Fee	Fee to cover expenses for out-of state student teaching.	\$100 Minimum
Placement Charge	Varies according to service requested to cover postage, copying, etc.	Varies
Returned Check Fee	Fee for checks returned for non-payment.	\$15
Single Admissions File Fee	Administrative fee for students transferring to another institution.	\$8
Student ID Card Replacement Fee	To cover cost of replacement ID.	\$6
Summer/Continuing Education Fee	Published in current Outreach Bulletins.	Varies; \$80 Minimum/Credit Hour
Testing Fee	Variable.	Varies
Transcript Fee	Per copy; one official copy at no charge.	\$3

¹ The Board of Regents may approve additional fees at the request of campuses. Fees frequently are assessed for selected courses such as science course fees, art materials, and health & human performance course costs. Course-related fees are listed on fee statements, which are mailed to all pre-registered students prior to the start of a regular semester, or may be viewed and printed from the website at <http://my.umwestern.edu/current/>. Special fees are assessed for extended field trips in various departments. An Education Service Fee is charged for off-campus programs. Other fees and costs may apply.

Costs of On Campus Services

On Campus Housing

Housing Residency Requirements

All students with fewer than 30 total credits are required to live in the residence halls. Exceptions to this policy are granted for the following reasons:

1. Student is living at home with parents or guardians.
2. Student is married or a parent with child custody.
3. Student is 20 years of age or older.

Housing Deposit

Students applying for on-campus housing are required to pay a \$200 housing deposit at the time of application. This deposit is applied as a damage deposit. Individuals who cancel their room reservation on a timely basis may be refunded the entire deposit depending upon the cancellation notification date. Students in the residence halls will receive a refund of the \$200 damage deposit if there is no damage to their room at the time of final check-out, providing the proper residence hall check-out procedure is followed. Amounts listed are per semester unless otherwise stated.

Residence Hall Room & Board Rates

In addition to the room and board rates listed below, students in the residence halls are charged an additional \$15 per semester residence hall activities fee to defray the cost of activities in the residence halls and a \$46 per semester telecommunications fee, which is charged to all residents to defray a portion of the fixed costs of the telephone, network, and internet service. Each residence hall room has a telephone jack.

Single occupancy may be assigned depending on available space.

For the 2013-2014 academic year, UMW will continue to offer a seven-day meal plan. This plan costs \$1,967 per semester and allows students "All Day Access" to the dining hall. In addition, \$100 of that amount is applied to a cash flex plan at the Bark-n-Bite convenience store. This allows students to dine at a time that fits into their schedule. There is no carryover of unused funds to the next semester.

2013-14 Residence Hall Rates Per Semester		2013-14 Meal Plan Per Semester	Additional Charges Per Semester
Regular Double Room	\$1,178	\$1,967	\$15 Residence Hall Activities Fee
Regular Single Room	1,284		
Large Single Room	1,380		
2-Room Apt (as a Double)	1,284		
Suite (as a Double)	1,241		
Suite (as a Single)	1,518		\$46 Telecommunications Fee

Family Housing Rates

Low-cost housing is available on a first-come, first-served basis to families with members attending Montana Western. The living accommodations include units with one and two bedrooms. Rental rates include utilities and cable television connections. In addition, a \$46 per semester telecommunications fee is charged to all residents to defray a portion of the fixed costs of the telephone, network, and internet service. Contact the Dean of Students Office for information and applications.

2013-14 Family Housing Rates Per Month		Additional Charge Per Semester
1-Bedroom Apartment	\$405	\$46 Telecommunications Fee
2-Bedroom Apartment	454	
South Campus Housing Suites A, B	307	
South Campus Housing Suite C	359	

Vehicle Registration

Students receive a vehicle hanger decal at no charge when they register their vehicle at the Traffic Office. All students must display a current campus decal if they park on campus between the hours of 7:00 a.m. and 5:00 p.m. Monday through Friday year round. Regular parking decals that allow faculty and staff to park on campus are \$50 for the year. Reserved parking is available on a first-come, first-served basis for \$160 a year. There is a \$7.50 replacement fee for all decals lost or stolen.

Other Services

Other services provided on campus include a full bookstore, testing programs, etc. As rates charged for these services are too varied to present in this publication, contact the department providing the service for more information.

Refund of Fees

The withdrawal process begins and ends at the Registrar's Office.

The \$30 Registration Fee, \$30 Admissions Application Fee, and \$75 Orientation Fee are non-refundable.

Refund for Withdrawal from the University

Students who withdraw or drop below full-time status during a regular 16-week semester will receive a refund based on the number of instruction days of a semester completed from the start of classes of a term until the time a student completes official action to drop/withdraw. The date used in determining the amount credited to the student's account is the official withdrawal date as recorded by the UMW Registrar. There is no refund after the 15th class day of a term.

Students using the deferred payment plan will have their withdrawal credit applied to their student account, but may still owe some or all of the deferred balance. All existing debts such as a deferred payment plan balance, library charges, bookstore charges, etc., will be deducted from any refund due the student. For further information, contact Business Services.

Refund of Fees – Dropped Courses

The refund of fees for dropped courses is computed in accordance with the University's regular fee schedule. No refund or credit is given for drops occurring after the 15th instructional day during a standard academic semester or the pro-rated equivalency during a shorter term.

Refund of Fees for Withdrawal from UMW – Regular Semester

Fees are refunded to students on a pro-rated basis in accordance with Montana Board of Regents and federal regulations for those who officially withdraw from UMW or drop below full-time status. The amount of fees refunded is based upon the date official action to drop/withdraw is completed, the student's classification, and the amount of related fees paid. Students are considered enrolled up to the date the

Registrar's Office validates the official withdrawal request or *Drop/Add/Withdrawal* form. Only in unusual or emergency situations will the Registrar's Office post-date a withdrawal/drop and/or last date of attendance as a basis for calculating a refund.

Withdrawal Date for Regular Semester

Note: Refund percentages shown below do not include any nonrefundable fees. The "Day of Instruction" pertains to the instructional day of the term as determined by the Academic Calendar (usually the first day of the first block of the semester).

Regular Semester Withdrawal Date	Refund %
Before 1st Day of Instruction	100%
1st to 5th Day of Instruction	90%
6th to 10th Day of Instruction	75%
11th to 15th Day of Instruction	50%
After 15th Day of Instruction	0%

Refund of Fees for Withdrawal from UMW – Time-Shortened Terms (Summer Session)

Students withdrawing from UMW during a term that is shorter than a regular 16-week semester will receive a refund based upon the percentage of the term completed and the amount of related fees paid. The following schedule reflects the percentage of the paid fees to be refunded in these instances. Refund percentages shown below do not include any nonrefundable fees.

Withdrawal Date for Time-Shortened Courses

The "Day of Instruction" pertains to the instructional day of the term as determined by the Academic Calendar.

Time-Shortened Course Withdrawal Date	Refund %
Before 1st Day of Instruction	100%
1% to 6.25% Instruction Days of Term Completed	90%
6.26% to 12.5% Instruction Days of Term Completed	75%
12.51% to 18.75% Instruction Days of Term Completed	50%
More than 18.75% Instruction Days of Term Completed	0%

Return of Federal Aid Funds

Federal regulations define the amount of federal aid funds to be returned by students who have received aid for the semester in which they withdraw. ***Students who have received aid must consult the Financial Aid Office before withdrawing.***

Refund of Room & Board Charges

Fees paid for room and board charges are refunded on a prorated basis. During the final two weeks of the term, room fees will be forfeited. Residence Hall and Dining Service fee refunds are calculated on a daily prorated basis for students officially withdrawing from UMW. No Residence Hall or Dining Service refunds are made to students who have claimed their reservations for any semester by picking up a key or residing in a hall unless the student has officially withdrawn from UMW by the published deadline for withdrawal.

Medical Withdrawal

Medical withdrawals are granted for significant medical problems. Refunds for medical withdrawals initiated after the third week of classes are reviewed only if a significant medical problem originated in the first three weeks. Documentation from a medical provider must be provided.

Outreach/Extension Withdrawal

Requests for withdrawal from Outreach/Extension courses must be submitted in writing to the School of Outreach. Exceptions may apply to courses requiring the prepayment of fees. Exceptions are described in the Outreach Bulletins.

Academic Information

General Education Philosophy Statement The University of Montana Western

All baccalaureate degree-seeking students at the University of Montana Western complete a program called "General Education". The purpose of the General Education program at Montana Western is fivefold:

1. to introduce all students to the core arts and sciences disciplines;
2. to prepare students for university-level thinking;
3. to help students develop the skills and knowledge necessary for lifelong learning;
4. to give each student a foundation in democratic values; and
5. to foster engaged participation in a global society.

In keeping with its Mission Statement, UMW recognizes and values both the integrity of the individual and membership in an increasingly diverse and global society. Thus, the General Education program is experiential, multidisciplinary, and multicultural. This multidisciplinary program consists of at least two semesters of focused study. Each course in the General Education program presents a breadth of content including a survey of basic information, methods of identifying and solving problems, methods to communicate the results of scholarly endeavors, and a general set of inquiry skills that can be transferred or adapted to other disciplines.

The program is scheduled so that each student with the prerequisite skills can complete the requirements in one academic year, preferably the freshman year. The intent of the program is to provide a coherent academic experience through selected courses, some interdisciplinary, with the emphasis in each on developing students' intellectual and communication skills.

Montana Western students are encouraged to work closely with a faculty advisor to select courses that focus on developing their individual qualities and interests.

Articulation agreements among the Montana University System (MUS) institutions ensure that students can transfer from one MUS institution to another with minimal loss of credit or time.

The UMW General Education program is consistent with the Montana University System General Education Standards.

Montana University System (General Education) Core Curriculum

New students transferring to UMW from any of the units of the Montana University System or one of the three public community colleges in Montana (Flathead Valley Community College, Dawson Community College, Miles Community College) and who have satisfactorily completed a minimum of twenty (20) credits of campus-specific general education courses (distribution requirements considered) prior to transferring to UMW can elect to complete the MUS (General Education) Core Curriculum in lieu of the UMW General Education program. Information on the MUS Core can be viewed online at <http://mus.edu/transfer/gened.asp>.

New transfer students who are eligible for this option should communicate their choice of General Education programs (UMW or MUS) at the earliest possible time so that UMW personnel (faculty advisors and Advising Office staff) may provide the most accurate and reliable degree advice possible.

The University of Montana Western 2013-2014

GENERAL EDUCATION PROGRAM....31-32 credits

**Each course used to satisfy the General Education Program
must be completed with a grade of C- or better.¹**

**Whenever possible, freshman students should complete foundational courses,
ENG 102/*WRIT 101* and Mathematics (MATH/M/STAT), during their first year of enrollment at UMW.**

**Transfer courses used to substitute for any UMW General Education core class must be taken from an
ACE accredited institution and approved in advance by the appropriate academic department
(completed *Substitution/Waiver* form must be submitted to the UMW Registrar's Office).**

UMW Pre-CCN Course	<i>CCN Equivalent Course</i> <i>Note: CCN equivalent courses are italicized throughout.</i>
UMW students must pass the UMW Information & Technology Literacy Exam (CAPP 191E, zero credits) as a requirement for graduation. All students must pass this exam, which is based on current national standards. UMW Information & Technology Literacy Exam scores cannot be more than six (6) years old at the time of graduation. CAPP 100, CAPP 131, and COMS 115 courses are available to assist in development of the skills necessary to pass the exam.	
Written & Oral Communications—4 credits	
ENG 102 Foundations of Language (4)	<i>WRIT 101 College Writing I (4)</i>
Mathematics—4 credits	
One UMW Math course 100-level or higher	One UMW <i>STAT</i> or Math (<i>M</i>) course 100-level or higher
Behavioral & Social Sciences—7-8 credits	
One course from the following:	
Any 100- or 200-level course from ANTH/GEOG/POLS/PSY/SOC (4)	Any 100- or 200-level course from ANTH/ <i>ANTY</i> /GEOG/ <i>GPHY</i> / <i>ISSS</i> / POLS/ <i>PSCI</i> /PSY/ <i>PSYX</i> /SOC/ <i>SOCI</i> (4)
ECON/GEOG/POLS 201 The World Economy	<i>ISSS 201 The World Economy (4)</i>
ECON 250 Principles of Economics (4)	<i>ECNS 203 Principles of Microeconomics & Macroeconomics (4)</i>
ECON 251 Principles of Macroeconomics (3)	<i>ECNS 202 Principles of Macroeconomics (4)</i>
ECON 252 Principles of Microeconomics (3)	<i>ECNS 201 Principles of Microeconomics (4)</i>
ED 250 Child & Adolescent Growth/Development (3)	<i>EDEC 247 Child & Adolescent Growth/Development (3)</i>
HHP 245 Human Sexuality (4)	<i>HTH 220 Human Sexuality (4)</i>
One 100- or 200-level HIST course (4)	One 100- or 200-level HIST/ <i>HSTA</i> / <i>HSTR</i> course (4)
Humanities: Expressive Arts—4 credits	
4 credits from the following:	
Any 100- or 200-level ART course (except ART 270 Photography)	Any 100- or 200-level ART or ARTZ course (except ART 270)
DR 101 Drama Fundamentals (2)	<i>THTR 101 Introduction to Theatre (4)</i>
DR 276 Acting Fundamentals & Styles (4)	<i>THTR 120 Introduction to Acting I (4)</i>
ENG 204 Creative Writing Workshop (4)	<i>CRWR 240 Introduction to Creative Writing Workshop (4)</i>
MUS 101 Music Fundamentals/Piano (2)	<i>MUSI 103 Fundamentals of Musical Creation (4)</i>
MUS 116 Concert Band (1)	<i>MUSI 114 Band: UMW Concert Band (1)</i>
MUS 162 Voice in Class (2)	<i>MUSI 152 Voice in Class (4)</i>
MUS 165 Vocal Ensemble (1)	<i>MUSI 147 Choral Ensemble: UMW (1)</i>
Humanities: Literary & Artistic Studies—4 credits	
One course from the following:	
ART 212 Art History II (4)	<i>ARTH 201 Art of World Civilization II (4)</i>
ENG: Any 100- or 200-level English Literature course (4)	Any 100- or 200-level Literature (<i>LIT</i>) course (4)
ENG 112 Performing Literary Texts (4)	<i>COMX 217 Oral Interpretation of Literature (4)</i>
ENVS/PHIL 201 History & Philosophy of Science (4)	<i>PHL 241 History & Philosophy of Science (4)</i>
FA 101 Introduction to Visual & Performing Arts (4)	<i>ARTH 160 Global Visual Culture (4)</i>
See course @ right	<i>LIT 282 Child & Young Adult Literature (4)</i>
MUS 143 History of Rock & Roll (4)	See course @ left
MUS 202 Introduction to Music Literature (4)	<i>MUSI 202 Introduction to Music Literature (4)</i>
PHIL 100 Introduction to Philosophy (4)	<i>PHL 101 Introduction to Philosophy: Reason & Reality (4)</i>
Natural Sciences—8 credits	
Two 100- or 200-level courses from any two science rubrics:	
BIO/CHEM/GEOL/PHYS	<i>BIO/BIOB/BIOE/BIOH/BIOM/BIOO/CHEM/CHMY/GEO/GEOL/PHYS/PHSX/WILD</i>
ENVS 180 Applied Sustainable Landscape Horticulture (4)	See course @ left

¹ Elementary Education and Secondary Education Majors must achieve a grade of C- or higher in all General Education courses and all other degree requirements that are General Education courses.

***UMW General Education Courses
that meet
Montana University System
Cultural Diversity Component
[as indicated by (CD)]***

UMW Pre-CCN Course	CCN Equivalent Course
ANTH 105 Introduction to Cultural Anthropology (4) (CD)	ANTY 220 Culture & Society (4) (CD)
GEOG 102 Human Geography (4) (CD)	GPHY 121 Human Geography (4) (CD)
GEOG 202 Regional Geography of North America (4) (CD)	GPHY 246 Geography of North America (4) (CD)
HIST 101 European Civilization I (4) (CD)	HSTR 101 Western Civilization I (4) (CD)
HIST 102 European Civilization II (4) (CD)	HSTR 102 Western Civilization II (4) (CD)
HIST 111 American History to the Civil War (4) (CD)	HSTA 101 American History I (4) (CD)
HIST 112 American History Since Reconstruction (4) (CD)	HSTA 102 American History II (4) (CD)
HIST 225 Africa & the Middle East (4) (CD)	HSTR 260 Africa & the Middle East (4) (CD)
HIST 240 History of the Far East (4) (CD)	HSTR 255 History of the Far East (4) (CD)
HIST 263 United States Since 1945 (4) (CD)	HSTA 215 Post-World War II America (4) (CD)
HIST 274 World History (4) (CD)	HSTR 274 World History (4) (CD)
MUS 202 Introduction to Music Literature (4) (CD)	MUSI 202 Introduction to Music Literature (4) (CD)
PHIL 100 Introduction to Philosophy (4) (CD)	PHL 101 Introduction to Philosophy: Reason & Reality (4) (CD)
POLS 121 American National & State Government (4) (CD)	ISSS 121 American National & State Government (4) (CD)
POLS 250 Political Theory (4) (CD)	PSCI 250 Introduction to Political Theory (4) (CD)
PSY 100 General Psychology (4) (CD)	PSYX 100 Introduction to Psychology (4) (CD)
PSY 201 Introduction to Cognition (4) (CD)	PSYX 280 Fundamentals of Memory & Cognition (4) (CD)
PSY 265 Introduction to Motivation-Theory & Practice (4) (CD)	PSYX 366 Motivation-Theory & Practice (4) (CD)
PSY 275 Developmental Psychology (4) (CD)	PSYX 230 Developmental Psychology (4) (CD)
SOC 115 Introduction to Sociology (4) (CD)	SOCI 101 Introduction to Sociology (4) (CD)
SOC 203 Social Problems & Deviant Behavior (4) (CD)	SOCI 201 Social Problems (4) (CD)
See course @ right	ISSS 202 Political Geography of the Rocky Mountain West (4) (CD)

***UMW General Education courses
containing Native American content***

UMW Pre-CCN Course	CCN Equivalent Course
ENG 330 Mythology (4)	LIT 285 Mythologies (4) (CD)
GEOG 102 Human Geography (4) (CD)	GPHY 121 Human Geography (4) (CD)
GEOG 202 Regional Geography of North America (4) (CD)	GPHY 246 Geography of North America (4) (CD)
HIST 111 American History to the Civil War (4) (CD)	HSTA 101 American History I (4) (CD)
HIST 112 American History Since Reconstruction (4) (CD)	HSTA 102 American History II (4) (CD)
HIST 263 United States Since 1945 (4) (CD)	HSTA 215 Post-World War II America (4) (CD)
PHIL 100 Introduction to Philosophy (4) (CD)	PHL 101 Introduction to Philosophy: Reason & Reality (4) (CD)
POLS 121 American National & State Government (4) (CD)	ISSS 121 American National & State Government (4) (CD)
POLS 250 Political Theory (4) (CD)	PSCI 250 Introduction to Political Theory (4) (CD)
See course @ right	ISSS 202 Political Geography of the Rocky Mountain West (4) (CD)

Introduction to Academic Degrees

Bachelor Degrees

Candidates for the Bachelor of Arts and Bachelor of Science degrees normally follow a four-year program, while candidates for the Bachelor of Applied Science degree normally follow a two-year program at UMW after completion of an Associate of Applied Science degree. The Montana University System requires the completion of a minimum of 120 credit hours for the Bachelor of Applied Science, Bachelor of Arts, and Bachelor of Science degrees in Biology, Business Administration, Early Childhood Education, Environmental Interpretation, Environmental Science, Health & Human Performance, Mathematics, and Natural Horsemanship. The University System requires a minimum of 128 credit hours for the Bachelor of Science degree in Elementary Education and the Secondary Education content area and BA/BS double major with Secondary Education degrees at UMW.

The baccalaureate degree is conferred upon satisfactory completion of the designated curriculum and all general degree requirements. Refer to the various degree outlines for specific course requirements and to the graduation requirements listed in the Enrollment & Graduation section of this Catalog.

The equivalent of one academic year, or two semesters of full-time resident study, is required of any student planning to earn a Bachelor's degree at UMW. During this period, the student must earn not fewer than 30 semester credits. A minimum of 20 credits of the last 30 semester credits must be in residence.

Candidates for a second Bachelor's degree must complete a minimum of 30 credits and two semesters in residence, as well as the courses to satisfy the requirements of the second degree. In the case where the first Bachelor's degree was earned at UMW, a minimum of 15 credits toward the second degree must be taken in residence.

A student working toward two baccalaureate degrees at the same time must complete the courses required in both curricula and also complete a minimum of 30 credits beyond the minimum credits required for one of the degrees. An *Application for Graduation or Program Completion* form must be filed with the Registrar's Office at least one semester before graduation.

Associate Degrees

The Associate degrees are generally four semesters of academic work that lead to a general understanding and knowledge base in a given area. Information on these degrees is available from the appropriate department as listed on the following page. See page 30 for residency requirements for associate degrees.

Certificate Programs

The Certificate programs are generally two semesters of academic work that lead to a certificate of completion in a given area. Contact the appropriate department for further information on these programs. Generally, all classes required for a certificate must be completed at UMW because of the specialized nature of these programs.

Pre-professional Programs

Pre-professional programs should be planned to meet the needs of individual students and the requirements of the professional program/school to which the student will transfer. In consultation with the appropriate UMW faculty advisor and the professional school's representative, the student should plan a program to meet the desires and requirements of the professional school the student wishes to attend.

Many medical and veterinary schools prefer students who are well grounded in the fundamentals of science and who also have a sound liberal arts base. UMW can provide comprehensive preparation in a four-year program with its BS: Biology degree. Most medical schools require, as a minimum, courses in mathematics, physics, English, biology, and chemistry. Since some schools have additional requirements, students should contact representatives at professional schools for assistance in course selection. Students transferring to bachelor's degree nursing schools should carefully plan their program to include not more than a basic two-year pre-professional program at UMW and should consult with representatives at the degree-granting institution regarding proper course selection at UMW.

Law schools in the United States select students who show high promise in the analysis of abstract materials, written and oral expression, and general academic excellence. The pre-law advisor assists students with selection of courses, pre-law requirements, and general preparation for application to law school. Pre-law students select various majors, depending on their interests.

Students planning to pursue careers in engineering should be able to satisfy the mathematics, physics, and chemistry requirements at UMW prior to transferring to a professional engineering school. Depending upon the engineering profession selected, students may be required by the engineering school to take additional upper level courses in these subject areas. Students should consult with a faculty advisor at the transfer institution to develop a program of study for engineering.

College of Arts & Sciences

Bachelor of Applied Science Degree

Bachelor of Arts Degrees

BA: English*

English Minors: Creative Writing
Professional Communications
Literature

BA—Interdisciplinary Social Science Majors

BA: Anthropology & Sociology

BA: Global Politics

BA: Interdisciplinary Social Science*

BA: Modern History*

BA: Psychology

ISSS Minors (see each degree for Minor choices):

Anthropology	Modern History	Sociology
Global Politics	Psychology	Systems of Thought
Legal Studies		

BA: Visual Arts Option

Visual Arts Related Areas: Business Pre-Art Therapy
Illustration Studio Art

Other BA Degree Related Areas Available:

Drama	Music
Equine Studies	Visual Arts (not to be taken with Visual Arts Option)

Bachelor of Science Degrees

BS: Biology*

Options: Integrative Biology
Molecular Bioscience
Wildlife Ecology

BS: Environmental Interpretation

Options: Biological Naturalist Pre-professional Conservation Officer
Geological Naturalist

BS: Environmental Science

Options: Geochemistry Geology
Sustainable Natural Wetlands Management
Resource Management

BS: Mathematics*

Options: Mathematical Biology
Mathematical Ecology
Mathematical Geology

Certificate Programs

Computerized Machine Tool Technology Certificate
(*IT courses at Helena College UM; contact UMW Provost for availability of this program*)
Early Childhood Certificate

Associate Degrees

Associate of Arts
Associate of Science
Associate of Applied Science: Business
Associate of Applied Science: Early Childhood Education
Associate of Applied Science: Education Studies
Associate of Applied Science: Equine Studies
Associate of Applied Science: Natural Horsemanship
Associate of Applied Science: Tourism & Recreation

School of Education, Business, & Technology

Bachelor of Science Degrees

BS: Business Administration

Options: Equine Management	Small Business Management
Health & Fitness	Tourism
Management	Web & Digital Media

BS: Health & Human Performance

BS: Natural Horsemanship

Options: Natural Horsemanship: Management
Natural Horsemanship: Psychology
Natural Horsemanship: Science

BS: Early Childhood Education

BS: Elementary Education

Elementary Education Minor: Early Childhood Education

Education Degree Option: Coaching

Education Degree Middle School Options:

Earth Science	Instructional Technology
Life Science	Mathematics
Physical Science	Social Studies

BS—Secondary Education Majors

BS: Art Education K-12

BS: Business & Computer Applications Education

BS: Industrial Technology Education

(*IT courses at Helena College UM; contact UMW Provost for availability of this degree*)

BS: Music Education K-12

BS: Physical Education & Health K-12

Secondary Education Double Majors*

BA: English* & Secondary Education Double Major

BA: Interdisciplinary Social Science* & Secondary Education Double Major

BA: Modern History* & Secondary Education Double Major

BS: Biology* & Secondary Education Double Major

BS: Earth Science & Secondary Education Double Major

BS: General Science Broadfield & Secondary Education Double Major

BS: Mathematics* & Secondary Education Double Major

Education Degree Minors

Art K-12

Biology

Business & Computer Applications

Computer Science K-12

Drama K-12

Earth Science

English

Physical Education & Health K-12

History

Industrial Technology (*IT courses at Helena College UM; contact UMW Provost for availability of this degree*)

Library Media K-12

Literacy K-12

Mathematics

Music K-12

Special Education K-12

Education Degree Options

Coaching Option

Special Education Concentration

***Secondary Education Double Majors that correlate to the corresponding BA or BS content area degree in left-hand column.**

College of Arts & Sciences

The College of Arts & Sciences offers the following degrees:

Associate of Arts (A.A.) (page 49)

Associate of Science (A.S.) (page 49)

Bachelor of Applied Science (B.A.S.) (page 61)

Bachelor of Arts (B.A.)

BA: English (page 63)

BA: Visual Arts (page 76)

Interdisciplinary Social Science Majors:

BA: Anthropology & Sociology (page 68)

BA: Global Politics (page 69)

BA: Interdisciplinary Social Science (page 70)

BA: Modern History (page 72)

BA: Psychology (page 74)

Bachelor of Science (B.S.)

BS: Biology (page 81)

BS: Environmental Interpretation (page 89)

BS: Environmental Science (page 92)

BS: Mathematics (page 98)

B.A. or B.S. Content Areas offered with Secondary Education as Double Majors:

BA: English & Secondary Education Double Major (page 66/125)

BA: Interdisciplinary Social Science & Secondary Education Double Major (page 71/128)

BA: Modern History & Secondary Education Double Major (page 73/130)

BS: Biology & Secondary Education Double Major (page 84/121)

BS: Earth Science & Secondary Education Double Major (page 124)

BS: General Science Broadfield & Secondary Education Double Major (page 126)

BS: Mathematics & Secondary Education Double Major (page 101/129)

For further information on the Bachelor of Applied Science and Associate degrees, students should contact their faculty advisor.

School of Education, Business, & Technology

The School of Education, Business, & Technology offers the following degrees:

Certificate Programs (page 48)

(generally one-year programs)

- Computerized Machine Tool Technology Certificate Program [*courses offered at Helena College UM; contact UMW Provost for availability of this program*]
- Early Childhood Education Certificate Program

Associate of Applied Science (A.A.S.) degrees

(generally two-year programs)

- AAS: Business (page 50)
- AAS: Early Childhood Education (page 52)
- AAS: Education Studies (page 54)
- AAS: Equine Studies (page 56)
- AAS: Natural Horsemanship (page 58)
- AAS: Tourism & Recreation (page 60)

Bachelor of Science (B.S.) degrees offered through the School of Education, Business, & Technology

- BS: Business Administration (page 85)
- BS: Early Childhood Education (page 105)
- BS: Elementary Education (page 113)
- BS: Health & Human Performance (page 96)
- BS: Natural Horsemanship (page 102)

Bachelor of Science (B.S.) degrees in Secondary Education and K-12 Education

- BS: Art Education K-12 (page 120)
- BS: Business & Computer Applications Education (page 122)
- BS: Industrial Technology Education [*IT courses at Helena College UM; contact UMW Provost for availability of this program*] (page 127)
- BS: Music Education K-12 (page 131)
- BS: Physical Education & Health K-12 (page 132)

College of Arts & Sciences Majors available as Double Majors with Secondary Education (B.A., B.S.)

- BA: English & Secondary Education Double Major (page 66/125)
- BA: Interdisciplinary Social Science & Secondary Education Double Major (page 71/128)
- BA: Modern History & Secondary Education Double Major (page 73/130)
- BS: Biology & Secondary Education Double Major (page 84/121)
- BS: Earth Science & Secondary Education Double Major (page 124)
- BS: General Science Broadfield & Secondary Education Double Major (page 126)
- BS: Mathematics & Secondary Education Double Major (page 101/129)

CERTIFICATE PROGRAMS

Computerized Machine Tool Technology Certificate Program (IT courses at Helena College UM)

Computerized Machine Tool Technology Certificate.....29 credits
Please contact theUMW Provost for information regarding availability of this program.

UMW Pre-CCN Course	CCN Equivalent Course	
IT 130 Graphic Communication	See course @ left	3
IT 135 Computer-Aided Drafting	See course @ left	4
IT 140 Metal Materials/Processes	See course @ left	4
IT 240 Wood/Synthetic Product Systems	See course @ left	3
IT 241 Machining	MCH 200 Machining	3
IT 260 Computer-Aided Mfg/Metals	See course @ left	4
IT 345 Computer-Aided Manufacturing	See course @ left	4
IT 400 Internship	See course @ left	4

Early Childhood Certificate Program

Early Childhood Certificate.....30 credits
Students must maintain a 3.00 average with no grade lower than a "C-".

ED 142 Intro to Early Childhood	EDEC 108 Intro/EC Ed	1
ED 143 Intro to Early Childhood Lab	EDEC 109 Intro/EC Ed Lab	1
ED 242 Meeting Needs of Families	EDEC 210 Meet Needs/Families	2
ED 243 Meeting Needs of Families Lab	EDEC 211 Meet Needs/Faml Lab	1
ED 144 Creating an Envt for Learning	EDEC 220 Creat Envt/Lrng EC	2
ED 145 Creating an Envt for Learning Lab	EDEC 221 Crt Envt/Lrng EC Lab	1
ED 240 Positive Child Discipline	EDEC 230 Pos Child Guid	2
ED 241 Positive Child Discipl Lab	EDEC 231 Pos Child Guid Lab	1
ED 250 Child/Adol Growth/Develop	EDEC 247 Chld/Adol Devel	3
ED 251 Child/Adol Growth/Develop Lab	EDEC 248 Chld/Adol Devel Lab	1
ED 344 Early Childhd Profess	EDEC 265 Ldrshp/Prof in EC Ed	2
ED 345 Early Childhd Profess Lab	EDEC 266 Ldrshp/Prof in EC Ed Lab	1
ED 320 Early Childhd Curric I	EDEC 281 EC Curr Des/Impl I	2
ED 321 Early Childhd Curric I Lab	EDEC 282 EC Curr Des/Impl I Lab	1
ED 324 Early Childhd Curric II	EDEC 283 EC Curr Des/Impl II	2
ED 325 Early Childhd Curric II Lab	EDEC 284 EC Curr Des/Impl II Lab	1
Select 1 from the following:		3
ED 292 Intro to Bus/Early Childhd (3)	EDEC 268 Intro/Bus for EC Prog (3)	
ED 341 Exceptional Learner (3)	See course @ left	
Elective	Elective	3

**Note: All Certificate Programs are exempt from the
UMW Information & Technology Literacy exam requirement for graduation.**

ASSOCIATE DEGREES

Associate of Arts

The Associate of Arts (A.A.) degree is a two-year general transfer degree. It is recommended for students who expect to transfer to a four-year program and work toward a Bachelor of Arts (B.A.) degree. It may also be used for students who do not expect to work toward a baccalaureate degree but who wish an extension of their general education that is recognized by the award of a two-year college degree. A student in good standing in the Associate of Arts degree program may transfer to a Bachelor's degree program at Montana Western or other institution with little, if any, loss of time. Students are encouraged to plan their program carefully to avoid taking coursework that will not count toward their intended ultimate undergraduate degree. If transferring to another institution, students should obtain the degree requirements from that institution and plan their coursework at Montana Western accordingly. The courses to be included in the A.A. program must be chosen carefully by the individual in consultation with and approval by the Montana Western advisor and the appropriate staff of the institution to which the student will transfer, if applicable. Students planning on transferring into a Montana Western baccalaureate degree program should work with their advisors to complete degree completion checklists for both degrees. All courses taken for the A.A. should double count as meeting the requirements of the desired baccalaureate degree.

Associate of Arts (A.A.) Degree Requirements

General Education (see General Education section, page 42)	General Education Credits	31-32
Other Credits Should be chosen to meet the requirements of the desired B.A. or other degree major. NOTE: for Social Science, students select from the following academic rubric areas: Anthropology (<i>ANTY</i>), History: American (<i>HSTA</i>), History: World (<i>HSTR</i>), Interdisciplinary Studies: Social Science (<i>ISSS</i>), Philosophy (<i>PHL</i>), Politics (<i>PSCI</i>), Psychology (<i>PSYX</i>), Sociology (<i>SOCI</i>).	Other Credits	<u>28-29</u>
	TOTAL CREDITS REQUIRED	60

Associate of Science

The Associate of Science (A.S.) degree is a two-year general transfer degree. It is recommended for students who expect to transfer to a four-year program and work toward a Bachelor of Science (B.S.) degree. It may also be used for students who do not expect to work toward a baccalaureate degree but who wish an extension of their general education that is recognized by the award of a two-year college degree. A student in good standing in the A.S. degree program may transfer to a Bachelor's degree program at Montana Western or other institution with little, if any, loss of time. Students are encouraged to plan their program carefully to avoid taking coursework that will not count toward their intended ultimate undergraduate degree. If transferring to another institution, students should obtain the degree requirements from that institution and plan their coursework at Montana Western accordingly. The courses to be included in the A.S. program must be chosen carefully by the individual in consultation with and approval by the Montana Western advisor and the appropriate staff of the institution to which the student will transfer, if applicable. Students planning on transferring into a Montana Western baccalaureate degree program should work with their advisors to complete degree completion checklists for both degrees. All courses taken for the A.S. should double count as meeting the requirements of the desired baccalaureate degree.

Associate of Science (A.S.) Degree Requirements

General Education (see General Education section, page 42)	General Education Credits	31-32
Other Credits Should be chosen to meet the requirements of the desired B.S. or other degree major). NOTE: for Social Science, students select from the following academic rubric areas: Anthropology (<i>ANTY</i>), History: American (<i>HSTA</i>), History: World (<i>HSTR</i>), Interdisciplinary Studies: Social Science (<i>ISSS</i>), Philosophy (<i>PHL</i>), Politics (<i>PSCI</i>), Psychology (<i>PSYX</i>), Sociology (<i>SOCI</i>).	Other Credits	<u>28-29</u>
	TOTAL CREDITS REQUIRED	60

Associate of Applied Science: Business

Program Mission Statement

The AAS: Business degree provides a variety of program options to suit the student's career plans. The broadly based program provides the opportunity to develop, improve, or update knowledge and skills, as well as specialize in a selected area. This is an articulated degree through Tech Prep.

Graduate Outcomes

Program graduates:

- can define and create a business plan, define the concept of entrepreneurship, and identify basic types of start-up ventures.
- understand the process of filing for legal protection of ideas, and understand the legal issues surrounding starting or expanding businesses.
- understand and apply fundamental accounting principles, skills, and processes.
- understand the basic legal processes and concepts associated with business.
- possess at least a basic working knowledge of computer hardware and software tools including word processing, spreadsheets, and databases.
- understand market price determination, production theory, elements of value, and distribution theory.
- exhibit effective oral and written communication skills for successful interaction in the business setting.
- utilize computer software and hardware tools for problem-solving and decision-making.
- can apply microeconomic theory to personal and business decision-making.

Assessment

The graduate outcomes for the AAS: Business are assessed through the graduate/exit survey, employer survey, alumni survey, and review of collected student-generated exhibits over time. The assessment plan for the AAS: Business is available at http://my.umwestern.edu/shares/bus_share/aasbus.html.

General Education Core (see page 42 for full list)

English	4
Math	4
Science	4
Economics	4

General Education Credits **16**

Business Core

UMW Pre-CCN Course	CCN Equivalent Course	
BUS 241 Financial Accounting	ACTG 201 Prin/Fin Acctng	4
BUS 242 Managerial Acctng	ACTG 202 Prin/Manag Acctng	4
BUS 280 Business Law	BGEN 235 Business Law	4
BUS 253 Bus Stats/Rsrch	BGEN 253 Bus Stats/Rsrch	4
BUS 201 Small Bus Develop	BMGT 210 Sm Bus Entrepreneur	4
BUS 217 Bus/Electronic Comm	See course @ left	4
COMS 135 Microcomp Appl	CAPP 131 Basic MS Office	4
Job Shadow		1

Business Core Credits **29**

Option Area

Select one Option (page 51):	24
Fitness Specialist (24)	
Management Specialist (24)	
Office Systems Technology (24)	

Option Area Credits **24**

TOTAL CREDITS REQUIRED **69**

AAS: Business Option Areas

Fitness Specialist Option

UMW Pre-CCN Course	CCN Equivalent Course	
HHP 311 Athletic Training I	AHAT 210 Prev/Care Athletic Inj	4
HHP 143 Found/Health/PE	KIN 205 Foundation in HHP	4
HHP 241 Pers/Comm Health	HEE 340 Meth/Hlth Educ	4
HHP 347 Org/Adm/Hlth Enhanc	HEE 410 Org/Adm/Sport Fitness	4
HHP 317 Exercise Physiol	KIN 320 Exercise Physiol	4
HHP 364 Nutrition; or NUTR 221 Basic Human Nutrition	NUTR 411 Nutr/Sports Exercise	4
Total Credits		24

Management Specialist Option

BUS 325 Prin/Prac/Mgt	BMGT 335 Mgt & Org	4
BUS 347 Prin/Prac/Mrktng	BMKT 325 Prin/Marketing	4
BUS 304 Leadership	See course @ left	4
Select 1 from the following:		4
COMS 205 Bus Info Systems	BMIS 270 MIS Found/Bus (4)	
COMS 236 Adv Microcomp Appl	CAPP 251 Adv MS Office (4)	
Select 1 from the following:		4
BUS 327 Risk Mgt/Insurance	BMGT 327 Risk Mgt/Insurance (4)	
BUS 329 Human Resrc Mgt	BMGT 329 Human Resrc Mgt (4)	
Select 1 course from the following rubrics:		4
BUS/COMS/ECON/HTR	BUS/CAPP/COMS/ECNS/ECON/ITS	
Total Credits		24

Office Systems Technology Option

COMS 205 Business Info Systems	BMIS 270 MIS Found/Business	4
COMS 236 Adv Microcomp Appl	CAPP 251 Adv MS Office	4
COMS 212 Intro/Web Design	See course @ left	4
COMS 235 Video/Audio Design	See course @ left	4
COMS 242 Digital Print Media	See course @ left	4
COMS 210 Comp Hrdwr/Softwr Mgt	ITS 205 Comp Hrdwr/Sftwr Mgt	4
Total Credits		24

Associate of Applied Science: Early Childhood Education

Program Mission Statement

The AAS: Early Childhood Education degree prepares early childhood practitioners to meet the unique needs of children from birth through age eight and their families in a variety of early childhood settings including child care homes and centers, Head Starts, pre-schools, etc. The program features a lab with each early childhood course, allowing ample opportunity to “learn through doing”. Students also have many opportunities to interact with peers and professionals in the field.

This is an articulated degree through Tech Prep. Courses are offered in Billings, Bozeman, Butte, Dillon, Great Falls, Hamilton, Havre, Helena, and Missoula. See BS: Early Childhood Education (page 105) for an advanced educational opportunity in early childhood.

Graduate Outcomes

Program graduates will:

- know and understand young children’s characteristics and needs.
- know and understand the multiple influences on development and learning.
- use developmental knowledge to create healthy, respectful, supportive, and challenging learning environments.
- know about and understand family and community characteristics.
- support and empower families and communities through respectful, reciprocal relationships.
- involve families and communities in their children’s development and learning.
- understand the goals, benefits, and uses of assessment.
- know about and use observation, documentation, and other appropriate assessment tools and approaches.
- understand and practice responsible assessment.
- know about assessment partnerships with families and other professionals.
- know, understand, and use positive relationships and supportive interactions.
- know and understand the importance, central concepts, inquiry tools, and structures of content areas or academic disciplines.
- use own knowledge and other resources to design, implement, and evaluate meaningful, challenging curriculum to promote positive outcomes.
- identify and involve themselves with the early childhood field.
- know about and uphold ethical standards and other professional guidelines.
- engage in continuous, collaborative learning to inform practice.
- integrate knowledgeable, reflective, and critical perspectives on early education.

Assessment

The graduate outcomes for the AAS: Early Childhood Education are assessed through employer surveys, alumni surveys, student exit surveys, review of portfolio artifacts, observations of students in practicum sites, early childhood content structured oral comprehensive interview, program self-study, and reports from external reviews. The assessment plan for the AAS: Early Childhood Education is available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accaasece/>.

AAS: Early Childhood Education

Students must maintain a 3.00 GPA in the following Early Childhood Education core courses with no grade lower than a “C-”:
 ED 142/143 (*EDEC 108/109*), ED 144/145 (*EDEC 220/221*), ED 240/241 (*EDEC 230/231*),
 ED 250/251 (*EDEC 247/248*), ED 320/321 (*EDEC 281/282*), ED 324/325 (*EDEC 283/284*).

General Education (page 42)

UMW Pre-CCN Course	CCN Equivalent Course	
Behavioral/Social Science	Behavioral/Social Science	3-4
English	English	3-4
Math	Math	3-4
Natural Science	Natural Science	3-4
COMS 101 Intro/Comptr/Pres	CAPP 100 Shd Crs: Cmptr Lit	1

General Education Credits

13-17

Early Childhood Core

ED 142 Intro/Early Childhood	<i>EDEC 108 Intro/EC Ed</i>	1
ED 143 Intro/Early Childhood Lab	<i>EDEC 109 Intro/EC Ed Lab</i>	1
ED 242 Meeting Needs/Family	<i>EDEC 210 Meet Needs/Fam</i>	2
ED 243 Meet/Needs/Family Lab	<i>EDEC 211 Meet Needs/Fam Lab</i>	1
ED 144 Creat/Envnt/Learning	<i>EDEC 220 Creat Envt/Lrng EC</i>	2
ED 145 Creat/Envnt/Learning Lab	<i>EDEC 221 Crt Envt/Lrng EC Lab</i>	1
ED 240 Positv Child Discipline	<i>EDEC 230 Positv Child Guid</i>	2
ED 241 Positv Child Discipline Lab	<i>EDEC 231 Positv Child Guid Lab</i>	1
ED 250 Child/Adol Growth/Dev	<i>EDEC 247 Chld/Adol Devel</i>	3
ED 251 Child/Adol Growth/Dev Lab	<i>EDEC 248 Chld/Adol Devel Lab</i>	1
ED 344 Early Childhd Profess	<i>EDEC 265 Ldrshp/Prof/EC Ed</i>	2
ED 345 Early Childhd Profess Lab	<i>EDEC 266 Ldrshp/Prof/EC Ed Lab</i>	1
ED 320 Early Childhd Curric I	<i>EDEC 281 EC Curr Des/Impl I</i>	2
ED 321 Early Childhd Curric I Lab	<i>EDEC 282 EC Curr Des/Impl I Lab</i>	1
ED 324 Early Childhd Curric II	<i>EDEC 283 EC Curr Des/Impl II</i>	2
ED 325 Early Childhd Curric II Lab	<i>EDEC 284 EC Curr Des/Impl II Lab</i>	1
Cultural Course	Cultural Course	3-4
Art, Drama, Music Elective	Art, Drama, Music Elective	3-4
Health, Safety, Nutrition Elective	Health, Safety, Nutrition Elective	3-4

Core Credits

33-36

Professional Electives

Complete 7-14 credits from the following: (other courses may apply—contact Advisor)		7-14
ED 200 Early Childhd Intrnshp (V 1-6)	<i>EDEC 298 Early Childhd Intrnshp (V 1-6)</i>	
ED 326 Infnt/Tddlr Dev/Group Care (4)	<i>EDEC 249 Infnt/Tod Dev/Group Care (4)</i>	
ED 341 Exceptional Learner (3)	See course @ left	
ED 421 Crtvty/Yng Child: Explrng Reggio Emilia & Proj Approach (3)	<i>EDEC 452 Explor Reggio Emilia & Proj Approach (3)</i>	

Professional Elective Credits

7-14

TOTAL CREDITS REQUIRED

60

Associate of Applied Science: Education Studies

Program Mission Statement

The AAS: Education Studies degree combines carefully selected General Education, Professional Education, and technology coursework with hands-on field experiences that provide the future teacher or paraprofessional (teacher's aide) with the expertise to effectively offer support and assistance in instruction to students under the supervision of the classroom teacher. Field experiences must take place at approved off-campus sites.

A bachelor's degree in education is required to be eligible for a teaching license. The AAS degree is an excellent halfway point to a bachelor's degree. With careful planning with faculty advisors, courses in this degree can be applied to a BS degree in Elementary Education, Secondary Education, or K-12 Education.

Graduate Outcomes

Program graduates will:

- become proficient in reading, writing, and content area skills.
- understand and recognize individual learning differences.
- understand and acknowledge the differences in development and characteristics of learners.
- use a variety of instructional strategies to encourage students' development.
- create learning environments that encourage positive social interaction.
- plan instruction based upon knowledge of subject matter, students, the community, and curriculum goals.
- understand assessment strategies.
- understand how to use reflection to evaluate the effects of his/her choices and actions on others.

Assessment

The graduate outcomes for the AAS: Education Studies are assessed through students' discipline-specific knowledge, skills, and abilities in their courses in at least one of the following ways: portfolio, presentation, exams, and assignments. The assessment plan for the AAS: Education Studies is available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accasaid/>.

AAS: Education Studies

Pre-Elementary Education

General Education

UMW Pre-CCN Course	CCN Equivalent Course	
ENG 102 Found/Language	WRIT 101 Coll Writing I	4
Any math course 100-level or above	Any math (M) course 100-level or above	4
Humanities: Expressive Arts Select 4 credits from the following:		4
ART 101 Fundamentals of Art (4)	ARTZ 100 Beginning Art (4)	
MUS 101 Music Fundamentals (2)	MUSI 103 Fund/Mus Creation (4)	
DR 101 Drama Fundamentals (2)	THTR 101 Intro/Theatre (4)	
Natural Sciences Select 1 from the following:		4
BIO 101 Intro/Life Science (4)	BIOB 101 Discover Biol (4)	
CHEM 101 Intro/Chem (4)	CHMY 121 Intro/Gen Chem (4)	
GEO 101 Intro/Geol (4)	GEO 101 Intro/Physcl Geol (4)	
PHYS 101 Intro/Physcis (4)	PHSX 103 Our Physcl World (4)	

General Education Credits

16

Pre-Elementary Education Core

COMS 115 Intro to Computers	See course @ left	4
ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psych Found/Tchg/Lrning	EDU 222 Ed Psych/Child Devel	4
ED 270 Literacy/Lang/Texts	EDU 233 Lit/Lang/Texts	4
See course @ right	EDU 234 Read/Writ Comm/All Lrnrs K-8	4
See course @ right	EDU 291 Intro/Serv/Citiz/Comm	4
ED 328 Curr/Instr/Assess/Mgt (3) and ED 329 Curr/Instr/Assess/Mgt Pract (1)	EDU 382 Assess/Curric/Instruc (4)	4
See course @ right	EDU 391F Child/Yng Adult Lit	4
HHP 241 Pers/Community Hlth	HEE 340 Meth/Hlth Educ	4

Core Credits

36

Professional Electives

Select 8 credits	8
Students may wish to consult with their faculty advisor to select courses that apply toward the BS: Elementary Education	

Professional Elective Credits

8

TOTAL CREDITS REQUIRED

60

Pre-Secondary Education or Pre-K-12 Education

General Education

UMW Pre-CCN Course	CCN Equivalent Course	
ENG 102 Found/Language	WRIT 101 Coll Writing I	4
Any math course 100-level or above	Any math (M) course 100-level or above	4
Humanities: Expressive Arts —Select 4 credits		4
Natural Sciences —Select 4 credits		4

General Education Credits

16

Pre-Elementary Education Core

COMS 115 Intro to Computers	See course @ left	4
ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psych Found/Tchg/Lrning	EDU 222 Ed Psych/Child Devel	4
See course @ right	EDU 234 Read/Writ Comm/All Lrnrs K-8	4
See course @ right	EDU 291 Intro/Serv/Citiz/Comm	4
ED 328 Curr/Instr/Assess/Mgt (3) and ED 329 Curr/Instr/Assess/Mgt Pract (1)	EDU 382 Assess/Curric/Instruc (4)	4
HHP 241 Pers/Community Hlth	HEE 340 Meth/Hlth Educ	4

Core Credits

28

Professional Electives

Select 16 credits	16
Students may wish to consult with their faculty advisor to select courses that apply toward a BS in Secondary Education or K-12 Education	

Professional Elective Credits

16

TOTAL CREDITS REQUIRED

60

Associate of Applied Science: Equine Studies

Program Mission Statement

The mission of the AAS: Equine Studies is to provide students with a realistic venue for pursuing their passion for horses. The program is designed to increase students' knowledge of the science, behavior, care, and management of horses, and to expand their awareness of the equine industry well above that of the average horseperson. Montana Western's experiential approach and broad-based curriculum allows the successful graduate to pursue a wide range of equine-related professions.

Students in the AAS: Equine Studies will have an emphasis in Management, which prepares students for running an equine-related business. Students interested in continuing into the BS: Natural Horsemanship degree program (page 102) in the Science or Psychology Options are encouraged to take electives in those subject areas.

Graduate Outcomes

Program graduates will:

- be well-versed in general knowledge about the equine industry including the common breeds, equine activities and events, and equine-related career options.
- understand the principles of equine nutrition and basic horse care to maximize horse health and performance.
- understand the basic anatomy and physiology of the horse, and be conversant with the common disease and lameness problems seen in horses.
- be knowledgeable about selecting, evaluating, and purchasing horses.
- understand and implement basic preventative herd health programs for horses.
- communicate effectively, both orally and in writing, on equine-related subjects with a wide variety of equine professionals and others in the industry.
- work collegially with others.
- possess the knowledge and skills required to assess a horse's basic health status.
- be able to assess a horse's conformation and gait and relate it to that horse's suitability, function, and health.
- be able to recognize and evaluate a variety of horse feeds and pasture situations.
- be conversant about and able to recognize common disease problems in horses.
- understand and evaluate the effectiveness of equine preventative health programs.

Assessment

The graduate outcomes for the AAS: Equine Studies are assessed through the graduate/exit survey, employer survey, alumni survey, feedback from internship supervisors, and review of collected student-generated exhibits over time. The assessment plan for the AAS: Equine Studies is available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accaasequine/>.

AAS: Equine Studies

General Education

UMW Pre-CCN Course	CCN Equivalent Course	
MATH 101 Logic or higher	<i>M 100-level course or higher</i>	4
ENG 102 Found/Language	<i>WRIT 101 Coll Writing I</i>	4
Behavioral & Social Science Select 1 from the following: ¹		4
ECON 250 Prin/Economics (4)	<i>ECNS 203 Prin/Micro/Macro (4)</i>	
PSY 100 General Psych (4)	<i>PSYX 100 Intro/Psych (4)</i>	
Select 1 from the following:		4
BIO 101 Intro/Life Sci (4)	<i>BIOB 101 Discover Biol (4)</i>	
BIO 111 Biology I (4)	<i>BIOB 160 Prin/Living Syst (4)</i>	

General Education Credits

16

Equine Studies Core

EQST 101 Intro/Equine Studies	<i>EQUS 101 Intro/Equine Studies</i>	4
EQST 102 Equine Select/Judging	<i>EQUS 102 Eqn Select/Judging</i>	4
EQST 200 Internship	<i>EQUH 298 Internship</i>	4
EQST 201 Basc Horse Care/Nutr	<i>EQUS 201 Basc Horse Care/Nutr</i>	4
EQST 202 Basc Equine Science I	<i>EQUS 202 Equine Sci I</i>	4
EQST 203 Basc Equine Science II	<i>EQUS 203 Equine Sci II</i>	4
EQST 204 Equine Facil Mgt	<i>EQUS 204 Equine Facil Mgt</i>	4

Core Credits

28

EQST: Management Option

BUS 241 Financial Accounting	<i>ACTG 201 Prin/Fin Acctng</i>	4
BUS 280 Business Law	<i>BGEN 235 Business Law</i>	4
BUS 201 Small Bus Development	<i>BMGT 210 Sm Bus Entrepreneur</i>	4
Professional Electives Select 8 credits from:		8
BUS 242 Mangrl Actg (3)	<i>ACTG 202 Prin/Mngrl Actg (4)</i>	
BUS 253 Bus Rsrch/Stat Anal (4)	<i>BGEN 253 Bus/Stats/Rsrch (4)</i>	
BUS 217 Bus/Electr Comm (4)	See course @ left	
COMS 135 Microcmptr Appl (3)	<i>CAPP 131 Basic MS Office (4)</i>	
ECON 250 Prin/Econ (4)	<i>ECNS 203 Prin/Mico/Macro Econ (4)</i>	
Any EQST course not taken in Equine Studies core	Any <i>EQUS</i> course not taken in Equine Studies core	

Option Credits

20

TOTAL CREDITS REQUIRED

64

Associate of Applied Science: Natural Horsemanship

Program Mission Statement

The mission of the AAS: Natural Horsemanship is to provide students with an education in equine theory and science combined with the practical skills of natural horsemanship. Horsemanship skills taught in the practical classes are heavily based on the principles of equine behavior along with the horse training methods of experts renowned in natural horsemanship and similar disciplines. Academic aspects of the program are designed to increase students' knowledge of the science, care, and management of horses, and to expand their awareness of the equine industry well above that of the average horseperson. Montana Western's experiential approach and broad-based curriculum allows the successful graduate to pursue a wide range of equine-related professions.

In addition to general admission to UMW, students interested in the Natural Horsemanship Program must apply by March 1st for the introductory Natural Horsemanship classes that will start that fall (August). The Natural Horsemanship Admissions committee will evaluate prospective students based on a combination of academic ability, horsemanship experience, natural horsemanship experience (if any), and student desire for participation in the program. Application forms for the program are available from the Admissions Office or through the UMW Natural Horsemanship website at http://my.umwestern.edu/shares/bus_share/eq.html.

Natural Horsemanship students must provide their own horse. Housing and feed for that horse will be provided by the university in collaboration with the Montana Center for Horsemanship. UMW natural horsemanship instructors will determine the ultimate suitability of the horse; stallions or untrained horses are not acceptable.

Natural Horsemanship program students are assessed a program tuition charge each semester. Montana Western's Natural Horsemanship program is demanding for both the students and their horses. Completion of the program in the allotted time frame demands that the student take a class overload. The UMW Academic Admissions and Standards Committee generally requires that a student taking a class overload maintain a B average. Therefore, a goal of academic excellence is a "must" for the interested participant. See BS: Natural Horsemanship, page 102.

To ensure that the Bachelor's degree program graduates only the most outstanding students, a secondary assessment of prospective Bachelor's degree students will be made after the second year, or between the Associate of Applied Science and Bachelor's degrees. Students will have to demonstrate a given level of proficiency in horsemanship, theory about natural horsemanship, and knowledge of basic equine science and horse care to advance to the 300-400 level natural horsemanship courses.

Graduate Outcomes

Program graduates:

- are proficient in methods of horsemanship based on the theories of natural horsemanship and similar disciplines.
- understand the principles of equine behavior and how they relate to horsemanship.
- are well-versed in general knowledge about the equine industry including the common breeds, equine activities and events, and equine-related career options.
- understand the principles of equine nutrition and basic horse care to maximize horse health and performance.
- understand the basic anatomy and physiology of the horse, and are conversant with the common disease and lameness problems seen in horses.
- understand and implement basic preventative herd health programs for horses.
- communicate effectively, both orally and in writing, on equine-related subjects with a wide variety of equine professionals and others in the industry.
- work collegially with others.
- are able to assess and work with a horse in most situations encountered during normal handling and riding activities.
- possess the knowledge and skills required to assess a horse's basic health status.
- are able to assess a horse's conformation and gait and relate it to that horse's suitability, function, and health.
- are able to recognize and evaluate a variety of horse feeds and pasture situations.
- are conversant about and able to recognize common disease problems in horses.
- understand and can evaluate the effectiveness of equine preventative health programs.

Assessment

The graduate outcomes for the AAS: Natural Horsemanship are assessed through the graduate/exit survey, employer survey, alumni survey, feedback from internship supervisors, and review of collected student-generated exhibits over time. The assessment plan for the AAS: Natural Horsemanship is available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accasnatural/>.

AAS: Natural Horsemanship

General Education

UMW Pre-CCN Course	CCN Equivalent Course	
MATH 101 Logic or higher	<i>M 100-level course or higher</i>	4
ENG 102 Found/Language	<i>WRIT 101 Coll Writing I</i>	4
Behavioral & Social Sciences Select 1 from the following: ¹		4
ECON 250 Prin/Economics (4)	<i>ECNS 203 Prin/Micro/Macro (4)</i>	
PSY 203 Compar Psych (4)	<i>PSYX 252 Fund/Compar Psych (4)</i>	
Select 1 from the following:		4
BIO 101 Intro/Life Sci (4)	<i>BIOB 101 Discover Biol (4)</i>	
BIO 111 Biology I (4)	<i>BIOB 160 Prin/Living Syst (4)</i>	

General Education Credits

16

Natural Horsemanship Core

EQST 101 Intro/Equine Studies	<i>EQUS 101 Intro/Equine Studies</i>	4
EQST 155 Intro/NH: Gain Conf/Rspct	<i>EQUH 155 Intro/NH: Gain Conf/Respect</i>	3
EQST 200 Internship	<i>EQUH 298 Internship</i>	4
EQST 201 Basic Horse Care/Nutr	<i>EQUS 201 Basic Horse Care/Nutr</i>	4
EQST 202 Basic Equine Sci I	<i>EQUS 202 Equine Sci I</i>	4
EQST 203 Basic Equine Sci II	<i>EQUS 203 Equine Sci II</i>	4
EQST 204 Equine Facilities Mgt	<i>EQUS 204 Equine Facil Mgt</i>	4
EQST 252 NH: Bldg/Relationship	<i>EQUH 252 NH: Bldg/Relationship</i>	3
EQST 254 NH: Harmony w/Horse I	<i>EQUH 254 NH: Harmony w/Horse I</i>	3
EQST 255 NH: Harmony w/Horse II	<i>EQUH 255 NH: Harmony w/Horse II</i>	3

Core Credits

36

NH: Management Option

BUS 201 Small Bus Development	<i>BMGT 210 Sm Bus Entrepreneur</i>	4
BUS 241 Financial Accounting	<i>ACTG 201 Prin/Fin Acctng</i>	4
BUS 280 Business Law	<i>BGEN 235 Business Law</i>	4
Professional Electives Select 8 credits from:		8
BUS 242 Mangrl Actg (3)	<i>ACTG 202 Prin/Mngrl Actg (4)</i>	
BUS 253 Bus Rsrch/Stat Anal (4)	<i>BGEN 253 Bus/Stats/Rsrch (4)</i>	
BUS 217 Bus/Electr Comm (4)	See course @ left	
COMS 135 Microcmpr Appl (3)	<i>CAPP 131 Basic MS Office (4)</i>	
Any EQST course not taken in Natural Horsemanship core	Any EQST/EQUS/EQUH course not taken in Natural Horsemanship core	

Option Credits

20

TOTAL CREDITS REQUIRED

72

Associate of Applied Science: Tourism & Recreation

Note: This program is currently on moratorium. Contact the Provost regarding availability of this degree.

Program Mission Statement

The mission of the AAS: Tourism & Recreation is to introduce students to the tourism industry and its various components. This program aspires to develop professionals who are able to succeed in entry-level professional positions in hospitality, tourism, and recreation.

Graduate Outcomes

Program graduates:

- develop and manage effective customer service systems including recognizing potential problems, formulating effective solutions to service problems, calming upset customers, and training frontline customer service personnel.
- establish short- and long-term career goals.
- understand and apply fundamental accounting principles, skills, and processes.
- understand the fundamental concepts and practices of marketing including global marketing management, e-commerce, e-business, and e-marketing.
- possess at least a basic working knowledge of computer hardware and software tools including word processing, spreadsheets, and databases.
- are familiar with the tourism industry and its various components.
- understand and apply leadership techniques and principles including positive interpersonal relationships, motivation, listening, trust-building, positive attitudes, delegating responsibilities, and decision-making.
- identify and can describe major tourism attractions throughout the world and particularly in the United States.
- possess real-world experience in a tourism and recreation setting.
- utilize computer software and hardware tools to present information in a clear and concise format.
- exhibit effective oral and written communication skills for successful interaction in a customer service environment.
- present a professional image through written and oral presentations and business communications.
- have an understanding of spatial organization of human activities and settlement.
- understand how economics impacts and drives business decisions.
- understand the history and social impact of leisure and recreation on society.

Assessment

The graduate outcomes for the AAS: Tourism and Recreation are assessed through the graduate/exit survey, employer survey, alumni survey, feedback from internship supervisors, and review of collected student-generated exhibits over time. The assessment plan for the AAS: Tourism and Recreation is available on the web at my.umwestern.edu/administration/vcaa/accreditation/accaastourism/.

AAS: Tourism & Recreation.....68 credits

UMW Pre-CCN Course	CCN Equivalent Course	
BUS 201 Small Bus Development	BMGT 210 Sm Bus Entrepreneur	4
BUS 202 Customer Service	See course @ left	3
BUS 210 Career Planning	See course @ left	2
BUS 217 Bus/Electronic Comm	See course @ left	4
BUS 241 Financial Accting	ACTG 201 Prin/Fin Acctng	4
BUS 304 Leadership	See course @ left	4
BUS 347 Prin/Prac/Marketing	BMKT 325 Prin/Marketing	4
COMS 115 Comp Basics/Educators	See course @ left	4
ECON 250 Prin/Economics	ECNS 203 Prin/Micro/Macro	4
ENG 102 Found/Language	WRIT 101 Coll Writing I	4
HTR 112 Fund/Tourism	HTR 112 Fund/Tourism	3
HTR 200 Internship	HTR 298 Internship	6
HTR 210 Destination Geog	HTR 210 Destination Geog	4
HTR/HHP 240 Leisure Services	HTR 240 Leisure Services	4
MATH Elective	Math/M Elective	4
Electives	Electives	6
Select 1 of the following:		4
GEOG 102 Human Geog (4)	GPHY 121 Human Geog (4)	
GEOG 202 Reg Geog/No Amer (4)	GPHY 246 Geog/No Amer (4)	
See course @ right	ISSS 202 Pol Geog/Rky Mtn West (4)	

Bachelor of Applied Science

The Bachelor of Applied Science (BAS) degree program is designed to allow graduates with an Associate of Applied Science (AAS) degree to earn a bachelor's degree with minimal loss of the time spent and credits earned in obtaining the AAS degree. Students may take/apply for one of the AAS degrees at UMW to meet the associate degree portion of the BAS. In most cases, students will need to earn an additional 60 credits beyond the AAS degree. Students will be encouraged to take as many 300- and 400-level courses as are appropriate to the student's program.

- Earned Associate of Applied Science (AAS) degree from a regionally accredited institution.
- Completion of at least 60 semester credits beyond the student's AAS degree (at least 30 of these credits must be upper division 300- or 400-level courses approved by the student's advisor). These 60 credits must be approved by the Provost no later than the end of the first term of enrollment in the BAS program, and the residency requirement for a Bachelor's degree at UMW applies. Included in this category are:
 - Completion of UMW's General Education program (page 42) or completion of the MUS General Education program or an approved General Education curriculum at another Montana University System campus. General Education courses will transfer on a course-by-course basis if an entire General Education curriculum has not been completed at another MUS campus.
 - Completion of an Option area of 20-28 credits individually designed by the student in consultation with an advisor and approved by the Provost in one of the areas listed below.
 - Electives for a total of 60 additional credits beyond the AAS degree.

AAS Credits **60**

General Education Credits **31-32**

Option Area Credits **20-28**

Elective Credits **0-9**

TOTAL CREDITS REQUIRED **120**

Option Area	20-28
Fine Arts & Humanities (art, drama, English, foreign language, humanities, music, philosophy)	
Business (business, computer science, economics, tourism & recreation)	
Early Childhood Education	
Health & Human Performance	
Industrial Technology	
Mathematics	
Natural Science (biology, chemistry, geology, physics)	
Social & Behavioral Science (anthropology, geography, history, political science, psychology, sociology)	
Interdisciplinary Core (approved by student's advisor)	

Bachelor of Arts Degrees

The College of Arts & Sciences offers these Bachelor of Arts degrees:

- BA: English (page 63)
- BA: Visual Arts (page 76)

BA—Interdisciplinary Social Science Majors:

- BA: Anthropology & Sociology (page 68)
- BA: Global Politics (page 69)
- BA: Interdisciplinary Social Science (page 70)
- BA: Modern History (page 72)
- BA: Psychology (page 74)

Students in these degree programs are required to complete the General Education program (31-32 credits), an internship or thesis, elective courses, and a minimum of one BA Minor/Related Area, for a minimum of 120 total credits.

The BA Minor/Related Area is a prescribed combination of courses that focuses on a specific subject area and provides the student with an in-depth knowledge that complements a chosen Bachelor of Arts Major/Option. Students should consult with their faculty advisor about Minors/Related Areas.

Students must complete a minimum of ten semester credits of approved and required resident courses to complete a BA Minor/Related Area.

Double Majors with Secondary Education

Some of the BA degrees in the College of Arts & Sciences are also available as a Double Major with Secondary Education. For example, the BA: English & Secondary Education Double Major substitutes the Secondary Education Professional Education Core and Student Teaching as requirements in place of the Minor/Related Area and Internship required for the BA: English.

- BA: English & Secondary Education Double Major (page 66/125)
- BA: Interdisciplinary Social Science & Secondary Education Double Major (page 71/128)
- BA: Modern History & Secondary Education Double Major (page 73/130)

Bachelor of Arts: English

Program Mission Statement

The BA: English degree offers students the opportunity to develop superior knowledge and skills in oral and written communications. Graduates are positioned to enter fields including editing, journalism, and public relations, or gain acceptance into graduate school (e.g., MFA). This course of study encourages students to become empowered and astute readers, writers, speakers, and listeners. Moving beyond traditional approaches, students develop their own voices in writing and speaking. Students respond critically and creatively to literatures in seminar formats and small classes. Whether it is an issue of revision or grammar, faculty encourage open inquiry and a critical understanding of the question of interpretation.

A liberal arts education forms the foundation of our present society and culture. The study of literature, the practice of writing, compels people toward self-reflection where they discover not only those possible sites of commonality, but also how important it is to value our differences. Studying literature and writing thus creates a stronger and more civic-minded person, a person more apt to comprehend the complexity of existence. As technology drives us further from our neighbors but closer to those more distant, we need a citizenry informed by tradition but with the courage to create and invent new approaches when necessary. We need a citizenry able to articulate their thoughts formally and informally, in writing and in speech, while acknowledging the importance of diverse opinion to understanding and knowledge.

The BA: English degree emphasizes individuality and the freedom to pursue a history of ideas through a broad and eclectic range of courses. While writing courses prepare students for continued academic success, it is Montana Western's goal to teach "writing for life," encouraging writers to apply their craft for both self-articulation and for occupational purposes. Montana Western's perspective on the study of literature and writing is to both teach and learn through new and innovative processes and foster creative and innovative approaches to learning in the classroom and beyond.

With this degree, students will be able to engage the world more fully, with greater insight and understanding. They will have the ability to nurture their creative spirit and mind, and enjoy life more fully and completely, because they will have learned the skills to engage ideas more deeply and complexly.

Graduate Outcomes

Program graduates will demonstrate:

- an understanding of the primary literary theories that have shaped and continue to shape literature.
- acquaintance with a broad spectrum of literatures and contexts including non-Western literatures.
- an understanding of the experiences of gender, race, and ethnicity reflected in literature.
- familiarity with and appropriate applications of current conventions in research and writing.
- mastery of oral communication for effective interaction with colleagues and the community.
- mastery of key concepts of literary analysis and evaluation.
- praxis in the process of writing, from drafting through revision.

Assessment

The graduate outcomes for the BA: English degree are assessed through graduate/exit surveys, employer surveys, alumni surveys, feedback from internship supervisors, review of collected student-generated exhibits over time, and program self-study and/or reports from external reviews. The assessment plan for the BA: English is available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accliterature/>.

BA: English Major

General Education (see page 42 for full list)

General Education Credits

31-32

English Major

Major Credits

48

UMW Pre-CCN Course	CCN Equivalent Course	
ENG 204 Creative Writ Wkshp	CRWR 240 Intr/Crtv Writ Wkshp	4
ENG 279 Fund/Lit Theory	LIT 300 Lit Criticism	4
Select 1 from the following:		4
ENG 263 Early Amer Voices (4)	LIT 210 Amer Lit I (4)	
ENG 264 Amer Romance (4)	LIT 264 Amer Romance (4)	
ENG 265 Real/Nat/Modern (4)	LIT 265 Real/Nat/Modern (4)	
ENG 266 Gen/Conflicts (4)	LIT 266 Gen/Conflicts (4)	
Select 1 from the following:		4
ENG 273 Oral Tradition (4)	LIT 273 Oral Literature (4)	
ENG 274 Manuscript Trad (4)	LIT 274 Manuscript Trad (4)	
ENG 276 Declining Empire (4)	LIT 276 Declining Empire (4)	
ENG 275 Print Culture (4)	LIT 277 Print Culture (4)	
ENG 330 Mythology (4)	LIT 285 Mythologies (4)	12
Select 3 from the following:		
ENG 320 Lit in Translation (4)	LIT 302 Lit in Translation (4)	
ENG 362 Sem/Women's Lit (4)	LIT 335 Women & Lit (4)	
ENG 339 Literary Regions (4)	LIT 339 Literary Regions (4)	16
ENG 361 Poetry & Thought (4)	LIT 361 Poetry & Thought (4)	
Select 4 from the following:		
ENG 413 Hist/Struc/Natur Lang (4)	LING 413 His/Struc/Natr Lang (4)	
ENG/DR 441 Drama Hist/Lit Gnr (4)	LIT 441 Drama Hist/Lit Gnr (4)	
ENG/DR 455 Shakespeare (4)	LIT 473 Studies/Shakespeare (4)	
ENG 479 Sem/Literary Theory (4)	LIT 479 Studies/Lit Theory (4)	
ENG 452 Sem/Literary Period (4)	LIT 494 Sem: Lit Period (4)	
ENG 453 Genre Seminar (4)	LIT 494 Sem: Genre (4)	4
ENG 454 Authors Seminar (4)	LIT 494 Sem: Maj Authors (4)	
Complete 4 credits from the following Capstone options:		
ENG 400 Coop Ed/Intnrshp	LIT 498 Intern/Coop Ed WRIT 498 Intern/Coop Ed	
ENG 498 Sr Proj/Thesis	LIT 499 Sr Proj/Thesis WRIT 499 Sr Proj/Thesis	

Minor (see page 65 for full list)

Minor Credits

28

Select any one BA: Minor or Related Area (English or other program). Students may also opt to take no Minor/Related Area and instead take 40 total elective credits with at least 8 upper level elective credits.	28
Note: Some Major and Minor/Related Area combinations will require completion of additional prerequisites for some classes.	

Electives

Elective Credits

12-13

Select from any catalog courses	12-13
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TOTAL CREDITS REQUIRED 120

**For English teaching licensure,
see BA: English & Secondary Education Double Major (page 66/125)**

BA: English Minors

Creative Writing Minor

UMW Pre-CCN Course	CCN Equivalent Course	
ENG 204 Creative Writ Wkshp	CRWR 240 Intr/Creatv Writ Wkshp	4
ENG 302 Fiction Wkshp	CRWR 310 Intrmed Fiction Wkshp	4
ENG 301 Poetry Wkshp	CRWR 311 Intrmed Poetry Wkshp	4
ENG 303 Nonfiction Wkshp	CRWR 312 Intrmed Nonfiction Wkshp	4
Select 2 from the following:		8
ENG 402 Adv Fiction Wkshp (4)	CRWR 410 Adv Fiction Wkshp (4)	
ENG 401 Adv Poetry Wkshp (4)	CRWR 411 Adv Poetry Wkshp (4)	
ENG 403 Adv Nonfiction Wkshp (4)	CRWR 412 Adv Nonfiction Wkshp (4)	
Select 1 from the following:		4
ENG 314 Editorial Wkshp (4)	See course @ left	
ENG 361 Poetry & Thought (4)	LIT 361 Poetry & Thought (4)	
ENG 479 Sem/Literary Theory (4)	LIT 479 Studies/Literary Theory (4)	
ENG 453 Genre Seminar (4)	LIT 494 Sem: Genre (4)	
ENG 313 Writ/Publication (4)	WRIT 313 Writ/Publication (4)	
ENG 350 Tech/Prof Communic (4)	WRIT 321 Adv Tech Writing (4)	
Total Credits		28

Literature Minor

Select 4 from the following:		16
ENG 263 Early Amer Voices (4)	LIT 210 Amer Lit I (4)	
ENG 264 Amer Romance (4)	LIT 264 Amer Romance (4)	
ENG 265 Real/Nat/Modern (4)	LIT 265 Real/Nat/Modern (4)	
ENG 266 Gen/Conflicts (4)	LIT 266 Gen/Conflicts (4)	
ENG 273 The Oral Tradition (4)	LIT 273 Oral Lit (4)	
ENG 274 The Manuscript Tradition (4)	LIT 274 The Manuscript Tradition (4)	
ENG 276 Declining Empire (4)	LIT 276 Declining Empire (4)	
ENG 275 The Print Culture (4)	LIT 277 The Print Culture (4)	
ENG 330 Mythology (4)	LIT 285 Mythologies (4)	
Select 2 from the following:		8
ENG 279 Fund/Literary Theory (4)	LIT 300 Literary Criticism (4)	
ENG 320 Lit in Translation (4)	LIT 302 Lit in Translation (4)	
ENG 362 Sem/Women's Lit (4)	LIT 335 Women & Lit (4)	
ENG 339 Literary Regions (4)	LIT 339 Literary Regions (4)	
ENG 361 Poetry & Thought (4)	LIT 361 Poetry & Thought (4)	
Select 1 from the following:		4
ENG 413 Hist/Struc/Natur of Lang (4)	LING 413 Hist/Struc/Natur of Lang (4)	
ENG/DR 441 Drama Hist/Lit Genre (4)	LIT 441 Drama Hist/Lit Genre (4)	
ENG/DR 455 Shakespeare (4)	LIT 473 Studies/Shakespeare (4)	
ENG 479 Sem/Literary Theory (4)	LIT 479 Studies/Literary Theory (4)	
ENG 452 Seminar/Literary Period (4)	LIT 494 Sem: Literary Period (4)	
ENG 453 Genre Seminar (4)	LIT 494 Sem: Genre (4)	
ENG 454 Authors Seminar (4)	LIT 494 Sem: Major Authors (4)	
Total Credits		28

Professional Communications Minor

ENG 303 Nonfiction Wkshp	CRWR 312 Intrmed Nonfiction Wkshp	4
ENG 403 Adv Nonfiction Wkshop	CRWR 412 Adv Nonfiction Wkshp	4
ENG 314 Editorial Wkshp	See course @ left	4
ENG 313 Writ/Publication	WRIT 313 Writ/Publication	4
ENG 350 Tech/Profess Comm	WRIT 321 Adv Technical Writing	4
See course @ right	WRIT 430 Technol Literacy	4
Complete 4 credits from the following:		4
ENG 400 Coop Ed/Internship	See course @ left	
Total Credits		28

BA: English & Secondary Education Double Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

General Education (see page 42 for full list)

General Education Credits

31-32

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

English Major

Major Credits

44

UMW Pre-CCN Course	CCN Equivalent Course	
ENG 204 Creative Writ Wkshp	CRWR 240 Intro/Creatv Writ Wkshop	4
ENG 279 Fund/Lit Theory	LIT 300 Lit Criticism	4
ENG 330 Mythology	LIT 285 Mythologies	4
ENG 413 Hist/Struc/Natur of Lang	LING 413 Hist/Struc/Natur of Lang	4
ENG/DR 455 Shakespeare	LIT 473 Studies/Shakespeare	4
Select 1 from the following:		4
ENG 263 Early Amer Voices (4)	LIT 210 Amer Lit I (4)	
ENG 264 Amer Romance (4)	LIT 264 Amer Romance (4)	
ENG 265 Real/Nat/Modern (4)	LIT 265 Real/Nat/Modern (4)	
ENG 266 Gen/Conflicts (4)	LIT 266 Gen/Conflicts (4)	
ENG 273 Oral Trad (4)	LIT 273 Oral Lit (4)	
ENG 274 Manuscript Trad (4)	LIT 274 Manuscript Trad (4)	
ENG 276 Declining Empire (4)	LIT 276 Declining Empire (4)	
ENG 275 Print Culture (4)	LIT 277 Print Culture (4)	
Select 3 from the following:		12
ENG 320 Lit in Translation (4)	LIT 302 Lit in Translation (4)	
ENG 362 Sem/Women's Lit (4)	LIT 335 Women & Lit (4)	
ENG 339 Literary Regions (4)	LIT 339 Literary Regions (4)	
ENG 361 Poetry & Thought (4)	LIT 361 Poetry & Thought (4)	
Select 2 from the following:		8
ENG/DR 441 Drama Hist/Lit Genre (4)	LIT 441 Drama Hist/Lit Genre (4)	
ENG 479 Sem/Literary Theory (4)	LIT 479 Studies/Lit Theory (4)	
ENG 452 Sem/Literary Period (4)	LIT 494 Sem: Lit Period (4)	
ENG 453 Genre Seminar (4)	LIT 494 Sem: Genre (4)	
ENG 454 Authors Seminar (4)	LIT 494 Sem: Maj Authors (4)	

Additional courses strongly recommended for Secondary Education

See course @ right	EDU 391F Child/Yng Adult Lit (4)	
ENG 280 Visions of America (4)	LIT 218 Visions of America (4)	
DR 241 Play Prod/Intro/Direct (4)	THTR 276 Play Prod/Intro/Direct (4)	
ENG 350 Tech/Profess Comm (4)	WRIT 321 Adv Technical Writing (4)	

Professional Education Core (see page 118 for recommended course sequence)

Professional Ed Core Credits

36

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
Take both courses in same semester:	Take both courses in same semester:	
ENG 352 Meth/Teaching Comp (4)	EDU 497L Meth: Integ Lit/Comp I	4
ENG 353 Meth/Teaching Lit (4)	EDU 497C Meth: Integ Lit/Comp II	4
Select 1 from the following:		4
HHP 241 Personal/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Electives

Elective Credits

4-5

Select from any catalog courses	4-5
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Student Teaching

Student Teaching Credits

12

ED 473 Stu Teaching-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED

128

Bachelor of Arts

Interdisciplinary Social Sciences Majors

Program Mission Statement

The mission of the BA degree programs in the Interdisciplinary Social Sciences is to establish an integrated, multidisciplinary foundation for more focused study in one of the Major Areas offered by the department. Together, a departmental Major and Minor Area or the Interdisciplinary Social Science Major are intended to prepare students for entry into graduate or professional programs.

Graduate Outcomes

ANTHROPOLOGY & SOCIOLOGY MAJOR

- Graduates demonstrate a comprehension of human groups and how they develop, how they are structured, and how they function.
- Graduates possess written and oral communication skills necessary to demonstrate problem-solving and technological skills consistent with the objectives of the Anthropology & Sociology Major.
- Graduates can demonstrate the ability to carry out independent, original scholarly work, which includes the ability to: identify and formulate problem statements appropriate to the academic discipline; select matching investigation methods; and collect, analyze, and interpret information.

GLOBAL POLITICS MAJOR

- Graduates demonstrate a comprehension of and ability to apply political thinking, defined as the ability to interpret the concepts of government, knowledge, and subjectivity, supported by the use of legal, historical, and sociological evidence to pose and answer questions relating to the distribution and exercise of power as well as the evaluation of how power should be distributed and exercised throughout the world.
- Graduates possess written and oral communication skills necessary to demonstrate problem-solving and technological skills consistent with the objectives of the Global Politics Major.
- Graduates can demonstrate the ability to carry out independent, original scholarly work, which includes the ability to: identify and formulate problem statements appropriate to the academic discipline; select matching investigation methods; and collect, analyze, and interpret information.

INTERDISCIPLINARY SOCIAL SCIENCE MAJOR

- Graduates possess written and oral communication skills necessary to demonstrate problem-solving and technological skills consistent with the objectives of the Interdisciplinary Social Science Major.
- Graduates can demonstrate the ability to carry out independent, original scholarly work, which includes the ability to: identify and formulate problem statements appropriate to the academic discipline; select matching investigation methods; and collect, analyze, and interpret information.

MODERN HISTORY MAJOR

- Graduates learn to think historically, meaning: understanding the importance of chronology in determining cause and effect relationships between events; developing an ability to effectively compare the effects of similar events in different contexts (recognizing how the past and present are connected); and developing the ability to effectively compare and evaluate varied interpretations of the same events or issues.
- Graduates possess written and oral communication skills necessary to demonstrate problem-solving and technological skills consistent with the objectives of the Modern History Major.
- Graduates can demonstrate the ability to carry out independent, original scholarly work, which includes the ability to: identify and formulate problem statements appropriate to the academic discipline; select matching investigation methods; and collect, analyze, and interpret information.

PSYCHOLOGY MAJOR

- Graduates demonstrate an understanding of the basic history, theories, and research methods of psychology as the scientific study of the thoughts and actions of individuals.
- Graduates possess written and oral communication skills necessary to demonstrate problem-solving and technological skills consistent with the objectives of the Psychology Major.
- Graduates can demonstrate the ability to carry out independent, scholarly work, which includes the ability to: identify and formulate problem statements appropriate to the academic discipline; select matching investigation methods; and collect, analyze, and interpret information.

Assessment

The graduate outcomes for the BA degree programs in the Interdisciplinary Social Sciences are assessed through the graduate/exit survey, alumni survey, feedback from internship supervisors, review of collected student-generated exhibits over time, and program self-study and/or reports from external reviews. The assessment plans for the BA degrees in the Interdisciplinary Social Sciences are available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accsocial/>.

BA: Anthropology & Sociology Major

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
Highly Recommended General Education Courses:		
PHIL 100 Intro/Philosophy (4)	PHL 101 Intro/Phil: Rsn/Reality (4)	
MATH 131 Probability (4)	STAT 121 Probability (4)	

General Education Credits

31-32

Anthropology & Sociology Major

ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/Soc Sci	ISSS 222 Qual Rsrch Meth/Soc Sci	4
SOC/ANTH 315 Polit Sociology	ISSS 315 Polit Sociology	4
SOC 425 MT Indian Sovereignty	ISSS 425 MT Indian Sovereignty	4
SOC 450 Social Stratification	ISSS 450 Social Stratification	4
SOC/ANTH 475 Cultural Ecology	ISSS 475 Cultural Ecology	4
SOC/ANTH 484 Economic Sociology	ISSS 484 Economic Anth/Soc	4
SOC/ANTH 485 Gndr/Econ/Social Chng	ISSS 485 Gndr/Econ/Social Chng	4
Select 1 from the following:		4
ANTH 105 Intro/Ctrl Anthro (4)	ANTY 220 Culture/Society (4)	
SOC 115 Intro/Sociology (4)	SOCI 101 Intro/Sociology (4)	
Select 1 from the following:		4
ANTH 409 Seminar (4)	ANTY 494 Sem/Wkshop (4)	
SOC 409 Seminar (4)	SOCI 494 Sem/Wkshop (4)	
Select 1 from from the following Capstone options:		4
ANTH 400 Coop Ed/Intern (4)	ANTY 498 Intern/Coop Ed (4)	
SOC 400 Coop Ed/Intern (4)	SOCI 498 Intern/Coop Ed (4)	
ANTH 498 Sr Proj/Thesis (4)	ANTY 499 Sr Proj/Thesis (4)	
SOC 498 Sr Proj/Thesis (4)	SOCI 499 Sr Thesis/Capstone (4)	
HPSS rubric 409 Seminar (4)	HPSS rubric 494 Sem/Wkshp (4)	
HPSS Department rubrics: ANTH/ANTY/GEOG/GPHY/HIST/HSTA/HSTR/ISSS/PHIL/PHL/ POLS/PSCI/PSY/PSYX/SOC/SOCI		

Major Credits

40

Minor

Select any one from the following ISSS Minors (page 75) (non-ISSS Minors by departmental permission only):	24
Global Politics (24)	
Legal Studies (24)	
Modern History (24)	
Psychology (24)	
Systems of Thought (24)	

Minor Credits

24

Electives

Select from any catalog courses	24-25
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Elective Credits

24-25

TOTAL CREDITS REQUIRED

120

BA: Global Politics Major

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
Highly Recommended:		
PHIL 100 Intro/Philosophy (4)	PHL 101 Intro/Phil: Rsn/Reality (4)	
MATH 131 Probability (4)	STAT 121 Probability (4)	

General Education Credits

31-32

Global Politics Core

ECON/GEOG/POLS 201 The World Econ	<i>ISSS 201 The World Economy</i>	4
See course @ right	<i>ISSS 213 Intro/Global Politics</i>	4
ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/Soc Sci	<i>ISSS 222 Qual Rsrch Meth/Soc Sci</i>	4
POLS 250 Political Theory	<i>PSCI 250 Intro/Political Theory</i>	4
POLS 409 Seminar	<i>PSCI 494 Seminar/Workshop</i>	4
Select 1 from the following:		4
POLS 121 Amer Natl/State Govt (4)	<i>ISSS 121 Amer Natl/State Govt (4)</i>	
See course @ right	<i>ISSS 202 Pol Geog/Rcky Mtn West (4)</i>	
See course @ right	<i>PSCI 294 Seminar/Workshop (4)</i>	
Select 3 from the following:		12
POLS 321 Comparative Politics (4)	<i>ISSS 321 Comparative Politics (4)</i>	
POLS 341 Political Economy (4)	<i>ISSS 341 Political Economy (4)</i>	
POLS 313 Intntl Rel/Amer Diplomcy (4)	<i>PSCI 331 Intntl Relations Theory (4)</i>	
POLS 470 Constitutional Law (4)	<i>PSCI 471 Amer Constit Law (4)</i>	
Select 1 from the following Capstone options:		4
POLS 400 Coop Ed/Internship (4)	<i>PSCI 498 Internship (4)</i>	
POLS 498 Sr Proj/Thesis (4)	<i>PSCI 499 Sr Proj/Thesis (4)</i>	
HPSS rubric 409 Seminar (4)	<i>HPSS rubric 494 Seminar/Wkshp (4)</i>	
HPSS Department rubrics: ANTH/ANTY/GEOG/GPHY/HIST/HSTA/HSTR/ISSS/PHIL/PHL/ POLS/PSCI/PSY/PSYX/SOC/SOCI		

Major Credits

40

Minor

Select any one from the following ISSS Minors (page 75) (non-ISSS Minors by departmental permission only):	24
Anthropology (24)	
Legal Studies (24)	
Modern History (24)	
Psychology (24)	
Sociology (24)	
Systems of Thought (24)	

Minor Credits

24

Electives

Select from any catalog courses	24-25
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Elective Credits

24-25

TOTAL CREDITS REQUIRED

120

BA: Interdisciplinary Social Science Major

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
Highly Recommended:		
PHIL 100 Intro/Philosophy (4)	PHL 101 Intro/Phil: Reason/Reality (4)	
MATH 131 Probability (4)	STAT 121 Probability (4)	

General Education Credits

31-32

Interdisciplinary Social Science Major & Minor

Select 3 from the following ISSS Minors (page 75); or 2 from the following ISSS Minors and 1 non-ISSS Minor from another department (more than 1 non-ISSS Minor by departmental permission only); or the Secondary Education Professional Core (page 118):		76-82
Anthropology (24) Global Politics (24) Legal Studies (24) Modern History (24) Psychology (24) Sociology (24) Systems of Thought (24) Secondary Education Professional Core (30)		
Select 1 Capstone option from one of selected Minors (in non-ISSS Minor by Departmental permission only):		4
HPSS rubric 409 Seminar (4)	HPSS rubric 494 Seminar/Wkshp (4)	
HPSS rubric 400 Coop Ed/Intnshp (4)	HPSS rubric 498 Internship (4)	
HPSS rubric 498 Sr Proj/Thesis (4)	HPSS rubric 499 Sr Proj/Thes/Cpstn (4)	
HPSS Department rubrics: ANTH/ANTY/GEOG/GPHY/HIST/HSTA/HSTR/ISSS/PHIL/PHL/ POLS/PSCL/PSY/PSYX/SOC/SOCI		

Major & Minor Credits

76-82

Electives

Select from any catalog courses	6-13
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Elective Credits

6-13

TOTAL CREDITS REQUIRED

120

**For Social Science Broadfield teaching licensure,
see BA: Interdisciplinary Social Science & Secondary Education Double Major (page 71/128)**

BA: Interdisciplinary Social Science & Secondary Education Double Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The Interdisciplinary Social Science Major enables teachers to teach multiple subjects in secondary schools. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. The Modern History Major is recommended. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
Highly Recommended:		
PHIL 100 Intro/Philosophy (4)	PHL 101 Intro/Phil: Reason/Reality (4)	
MATH 131 Probability (4)	STAT 121 Probability (4)	

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

General Education Credits

31-32

Interdisciplinary Social Science Major

ISS & Secondary Education Double Majors must take the following two ISSS Minors (page 75):		48
Global Politics Minor (24) [must include either <i>ISSS 121</i> or <i>ISSS 202</i>]		
History Minor (24) [must include 1 non-American History course <u>and</u> <i>HSTA 355</i>]		
Select 1 Capstone option from one of the selected Minors (in non-ISSS Minor by Departmental permission only):		4
HPSS rubric 409 Seminar (4)	HPSS rubric 494 Sem/Wkshp (4)	
HPSS rubric 400 Coop Ed/Intern (4)	HPSS rubric 498 Intern/Coop Ed (4)	
HPSS rubric 498 Sr Proj/Thesis (4)	HPSS rubric 499 Sr Proj/Thesis/Cpstrn (4)	
HPSS Department rubrics: ANTH/ANTY/GEOG/GPHY/HIST/HSTA/HSTR/ISSS/PHIL/PHL/ POLS/PSCI/PSY/PSYX/SOC/SOCI		

Major Credits

52

Professional Education Core (see page 118 for recommended course sequence)

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
ED 357 Meth/Mat/Soc Sci	EDU 497H Meth: 5-12 Soc Studies	4
Select 1 from the following:		4
HHP 241 Personal/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take <i>ANTY 220</i> (ANTH 105) as an elective prior to enrolling in <i>EDU 311</i> (ED 425/426). *CCN course number to be determined A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Professional Ed Core Credits

32

Electives

Select from any catalog courses	1-2
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Elective Credits

1-2

Student Teaching

ED 473 Stu Tchg-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lnrs (may be taken during or prior to student teaching)	4

Student Teaching Credits

12

² Students in an internship program (e.g., Class 5 teachers) will substitute *EDU 498 Internship* for *EDU 495*. Consult with the Director of Field Experiences to determine the appropriate number of credits.

TOTAL CREDITS REQUIRED

128

BA: Modern History Major

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
Highly Recommended:		
PHIL 100 Intro/Philosophy (4)	PHL 101 Intro/Phil: Reason/Reality (4)	
MATH 131 Probability (4)	STAT 121 Probability (4)	

General Education Credits

31-32

Modern History Major

ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/Soc Sci	ISSS 222 Qual Rsrch Meth/Soc Sci	4
Select 3 from the following:		12
HIST 111 Amer Hist to Civil War (4)	HSTA 101 Amer Hist I (4)	
HIST 112 Amer Hist/Reconstr (4)	HSTA 102 Amer Hist II (4)	
HIST 101 European Civ I (4)	HSTR 101 West Civ I (4)	
HIST 102 European Civ II (4)	HSTR 102 West Civ II (4)	
Select 1 from the following:		4
HIST 240 Hist/Far East (4)	HSTR 255 Hist/Far East (4)	
HIST 225 Africa/Mid East (4)	HSTR 260 Africa/Mid East (4)	
HIST 274 World Hist (4)	HSTR 274 World Hist (4)	
HIST 209 Seminar	HSTR 294 Seminar/Wkshp (4)	
Select 1 from the following:		4
HIST 456 US Cultural Hist (4)	HSTA 412 Amer Thought/Cltr (4)	
HIST 452 Europ Intell Hist (4)	HSTR 423 Europ Intell Hist (4)	
See course @ right	HSTR 491 Philosophies of History (4)	
Select 1 from the following:		4
HIST 409 Seminar (4)	HSTA/HSTR 494 Sem/Workshop (4)	
Select 2 additional 300- or 400-level History courses		8
Select 1 from the following Capstone options:		4
HIST 400 Coop Ed/Intern (4)	HPSS rubric 494 Seminar/Wkshp (4)	
HIST 498 Sr Proj/Thesis (4)	HSTA/HSTR 498 Intern/Coop Ed (4)	
HPSS rubric 409 Seminar (4)	HSTA/HSTR 499 Sr Proj/Thesis/Cpstm (4)	
HPSS Department rubrics: ANTH/ANTY/GEOG/GPHY/HIST/HSTA/HSTR/ISSS/PHIL/PHL/ POLS/PSCL/PSY/PSYX/SOC/SOCI		

Major Credits

40

Minor

Select one ISSS Minor below (page 75); or non-ISSS Minor by departmental permission only; or the Modern History & Secondary Education Double Major (page 73/130)	24-30
Anthropology (24) Global Politics (24) Legal Studies (24) Psychology (24) Sociology (24) Systems of Thought (24) Secondary Education Professional Core (30)	

Minor Credits

24-30

Electives

Select from any catalog courses	18-25
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Elective Credits

18-25

TOTAL CREDITS REQUIRED

120

**For History teaching licensure,
see BA: Modern History & Secondary Education Double Major (page 73/130)**

BA: Modern History & Secondary Education Double Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. It is strongly recommended that Modern History Majors also complete the Interdisciplinary Social Science Major. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

General Education (see page 42 for full list)

General Education Credits **31-32**

UMW Pre-CCN Course	CCN Equivalent Course	
Highly Recommended:		
PHIL 100 Intro/Philosophy (4)	PHL 101 Intro/Phil: Reason/Reality (4)	
MATH 131 Probability (4)	STAT 121 Probability (4)	
GEOG 202 Reg Geog/No Amer (4)	GPHY 246 Geog/No Amer (4)	

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

Modern History Major

Major Credits **40**

ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/SS	ISSS 222 Qual Rsrch Meth/Soc Sci	4
Select 3 from the following (HSTA 101 and HSTA 102 required):		12
HIST 111 Amer Hist to Civil War (4)	HSTA 101 Amer Hist I (4)	
HIST 112 Amer Hist/Reconstr (4)	HSTA 102 Amer Hist II (4)	
HIST 101 European Civ I (4)	HSTR 101 West Civ I (4)	
HIST 102 European Civ II (4)	HSTR 102 West Civ II (4)	
Select 1 from the following:		4
HIST 240 Hist/Far East (4)	HSTR 255 Hist/Far East (4)	
HIST 225 Africa/Middle East (4)	HSTR 260 Africa/Mid East (4)	
HIST 274 World Hist (4)	HSTR 274 World Hist (4)	
See course @ right	HSTR 294 Seminar/Wkshop (4)	
Select 1 from the following:		4
HIST 456 US Cultural Hist (4)	HSTA 412 Amer Thought/Clttr (4)	
HIST 452 Europ Intell Hist (4)	HSTR 423 Europ Intell Hist (4)	
See course @ right	HSTR 491 Philosophies of History (4)	
Select 1 from the following:		4
HIST 409 Seminar (4)	HSTA/HSTR 494 Sem/Workshop (4)	
Select 2 additional 300- or 400-level History courses (HSTA 355 required)		8
Select 1 from the following Capstone options:		4
HPSS rubric 409 Seminar (4)	HPSS rubric 494 Seminar/Wkshop (4)	
HIST 400 Coop Ed/Intern (4)	HSTA/HSTR 498 Intern/Coop Ed (4)	
HIST 498 Sr Proj/Thesis (4)	HSTA/HSTR 499 Sr Proj/Thesis/Cpstn (4)	
HPSS Department rubrics: ANTH/ANTY/GEOG/GPHY/HIST/HSTA/HSTR/ ISSS/PHIL/PHL/POLS/PSCI/PSY/PSYX/SOC/SOCI		

Professional Education Core (see page 118 for recommended course sequence)

Professional Ed Core Credits **32**

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mlticltl/Global Ed ¹ (3)	EDU 311 Cultr/Div/Ethics in Global Ed ¹ (4)	4
ED 426 Mlticltl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
ED 357 Meth/Mat in Soc Sci	EDU 497H Meth: 5-12 Soc Studies	4
Select 1 from the following:		4
HHP 241 Personal/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Electives

Elective Credits **12-13**

Select from any catalog courses	12-13
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Student Teaching

Student Teaching Credits **12**

ED 473 Stu Tchg-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to stu tchg)	4

²Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED **128**

BA: Psychology Major

General Education (see page 42 for full list)

General Education Credits

31-32

UMW Pre-CCN Course	CCN Equivalent Course	
Highly Recommended:		
BIO 111 Biology I (4)	BIOB 160 Prin/Living Systems (4)	
CHEM 131 Gen Chemistry (4)	CHMY 141 College Chem I (4)	
PHIL 100 Intro/Philosophy (4)	PHL 101 Intro/Phil: Rsn/Reality (4)	
PSY 100 Gen Psychology (4)	PSYX 100 Intro/Psychology (4)	

Psychology Major

Major Credits

40

PSY 275 Develop Psych	PSYX 230 Develop Psych	4
PSY 201 Intro/Cognition	PSYX 280 Fund/Memory/Cognition	4
PSY 300 Quant Rsrch Meth/Behav Sci	PSYX 322 Quant Rsrch Meth/Behav Sci	4
See course @ right	PSYX 356 Human Neuropsychology	4
PSY/SOC 452 Social Psych/Grp Dyn	PSYX 360 Soc Psych	4
PSY 437 Psych/Personality	PSYX 385 Psych/Personality	4
PSY 438 Abnormal Psych	PSYX 440 Abnormal Psych/Rsrch	4
BIO/MATH 233 Biostatistics	STAT 233 Biostatistics	4
MATH 131 Probability	STAT 121 Probability	4
Select 1 from the following Capstone options:		4
HPSS rubric 409 Seminar (4)	HPSS rubric 494 Sem/Wkshp (4)	
PSY 400 Coop Ed/Internship (4)	PSYX 498 Intern/Coop Ed (4)	
PSY 498 Sr Proj/Thesis (4)	PSYX 499 Sr Thesis/Capstone (4)	
HPSS Department rubrics: ANTH/ANTY/GEOG/GPHY/HIST/HSTA/HSTR/ISSS/PHIL/PHL/ POLS/PSCI/PSY/PSYX/SOC/SOCI		

Minor Area

Minor Credits

24

Select any one from the following ISSS Minors (page 75) (or non-ISS Minors by departmental permission only):	24
Anthropology (24) Global Politics (24) Legal Studies (24) Modern History (24) Sociology (24) Systems of Thought (24)	

Electives

Elective Credits

24-25

Select from any catalog courses		24-25
Highly Recommended Electives:		
BIO 255 Cell Biology (4)	BIOB 260 Cell/Molec Biol (4)	
CHEM 132 General Chem II (4)	CHMY 143 College Chem II (4)	
BIO/MATH 331 Bioinformatics (4)	STAT 331 Bioinformatics (4)	
MATH 433 Stochastic Modeling (4)	STAT 433 Stochastic Modeling (4)	

TOTAL CREDITS REQUIRED

120

BA: Interdisciplinary Social Science Minors

Not all Minors may be taken with all ISSS BA degrees. See degree for list of Minors for that degree.

Anthropology Minor

UMW Pre-CCN Course	CCN Equivalent Course	
ANTH 105 Intr/Cultural Anthro	ANTY 220 Culture & Society	4
ANTH 409 Seminar	ANTY 494 Seminar/Wkshp	4
ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/Soc Sci	ISSS 222 Qual Rsrch Meth/Soc Sci	4
SOC 425 MT Indian Sovereignty	ISSS 425 MT Indian Sovereignty	4
ANTH/SOC 475 Cltrl Ecology	ISSS 475 Cltrl Ecology	4
Select 1 from the following:		4
HIST 240 Hist/Far East (4)	HSTR 255 Hist/Far East (4)	
HIST 225 Africa/Mid East (4)	HSTR 260 Africa/Mid East (4)	

Total Credits **24**

Global Politics Minor

ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/Soc Sci	ISSS 222 Qual Rsrch Meth/Soc Sci	4
POLS 250 Political Theory	PSCI 250 Intro/Polit Theory	4
POLS 409 Seminar	PSCI 494 Seminar/Wkshp	4
Select 1 from the following:		4
POLS 121 Amer Natl/State Govt (4)	ISSS 121 Amer Natl/State Govt (4)	
ECON/GEOG/POLS 201 The Wrld Economy (4)	ISSS 201 The World Economy (4)	
See course @ right	ISSS 202 Polit Geog/Rocky Mtn West (4)	
See course @ right	ISSS 213 Intro/Global Politics (4)	
Select 2 from the following:		8
POLS 321 Compar Politics (4)	ISSS 321 Compar Politics (4)	
POLS 341 Political Economy (4)	ISSS 341 Political Economy (4)	
POLS 313 Intntl Rel/Amer Dipl (4)	PSCI 331 Intntl Rel Theory (4)	
POLS 470 Constit Law (4)	PSCI 471 Amer Constit Law (4)	

Total Credits **24**

Legal Studies Minor

POLS 121 Amer Natl/State Govt	ISSS 121 Amer Natl/State Govt	4
ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/Soc Sci	ISSS 222 Qual Rsrch Meth/Soc Sci	4
POLS 250 Political Theory	PSCI 250 Intro/Political Theory	4
POLS 470 Constit Law	PSCI 471 Amer Constit Law	4
Select 2 from the following:		8
BUS 280 Business Law (4)	BGEN 235 Business Law (4)	
ENVS 381 Nat Resource Law (4)	ENST 382 Enviro Law (4)	
SOC 310 Restor Justice (4)	SOCI 317 Restor Justice (4)	

Total Credits **24**

Modern History

ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/Soc Sci	ISSS 222 Qual Rsrch Meth/Soc Sci	4
Select 2 from the following (must include either HSTA 101 or HSTA 102):		8
HIST 111 Amer Hist to Cvl War (4)	HSTA 101 Amer Hist I (4)	
HIST 112 Amer Hist Since Recon (4)	HSTA 102 Amer Hist II (4)	
HIST 263 US Since 1945 (4)	HSTA 215 Post-WW II Amer (4)	
HIST 101 Europ Civ I (4)	HSTR 101 West Civ I (4)	
HIST 102 Europ Civ II (4)	HSTR 102 West Civ II (4)	
HIST 240 History/Far East (4)	HSTR 255 Hist/Far East (4)	
HIST 225 Africa/Middle East (4)	HSTR 260 Africa/Middle East (4)	
HIST 274 World Hist (4)	HSTR 274 World Hist (4)	
See course @ right	HSTR 294 Seminar/Wkshp (4)	
Select 2 from the following:		8
Any 300- or 400-level HIST course	Any 300- or 400-level HSTA or HSTR course	
Select 1 from the following:		4
HIST 409 Seminar (4)	HSTA/HSTR 494 Sem/Wkshp (4)	

Total Credits **24**

Psychology

UMW Pre-CCN Course	CCN Equivalent Course	
PSY 201 Intro/Cognition	PSYX 280 Fund/Mem/Cognition	4
PSY 275 Develop Psych	PSYX 230 Develop Psych	4
PSY 300 Quant Rsrch Meth/Behav Sci	PSYX 322 Qnt Rsrch Meth/Bhv Sci	4
PSY 437 Psych/Personality	PSYX 385 Psych/Personality	4
PSY/SOC 452 Social Psych/Grp Dyn	PSYX 360 Soc Psych	
MATH 131 Probability	STAT 121 Probability	4

Total Credits **24**

Sociology Minor

ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/Soc Sci	ISSS 222 Qual Rsrch Meth/Soc Sci	4
SOC 425 MT Indian Sovereignty	ISSS 425 MT Indian Sovereignty	4
SOC 115 Intro/Sociology	SOCI 101 Intro/Sociology	4
SOC 409 Seminar	SOCI 494 Seminar/Wkshp	4
Select 2 from the following:		8
ANTH/SOC 315 Polit Soc (4)	ISSS 315 Polit Sociol (4)	
SOC 450 Social Stratif (4)	ISSS 450 Social Stratif (4)	
SOC/ANTH 475 Cultural Ecol (4)	ISSS 475 Cultural Ecol (4)	
SOC/ANTH 484 Econ Sociol (4)	ISSS 484 Econ Anth/Soc (4)	
SOC/ANTH 485 Gndr/Econ/Soc Chng	ISSS 485 Gndr/Econ/Soc Chng	

Total Credits **24**

Systems of Thought Minor

ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/Soc Sci	ISSS 222 Qual Rsrch Meth/Soc Sci	4
Select 2 from the following:		8
PHIL 100 Intro/Philosophy (4)	PHL 101 Intro/Phil:Rsn/Real (4)	
See course @ right	PHL 191 Hist/Phil/Soc Sci* (4)	
PHIL/ENVS 201 Hist/Phil/Sci (4)	PHL 241 Hist/Phil/Sci (4)	
POLS 250 Polit Theory (4)	PSCI 250 Intro/Polit Theory (4)	
Select 3 from the following:		12
HIST 456 US Cltrl Hist (4)	HSTA 412 Amer Thought/Clttr (4)	
HIST 452 Euro Intell Hist (4)	HSTR 423 Euro Intell Hist (4)	
See course @ right	HSTR 491 Phil of History* (4)	
SOC 305 Social Theory (4)	ISSS 305 Anth & Soc Theory (4)	
ENG 279 Fund/Literary Theory (4)	LIT 300 Literary Criticism (4)	
ENG 479 Sem/Literary Theory (4)	LIT 479 Studies/Lit Theory (4)	
POLS 409 Seminar (4)	PSCI 494 Seminar/Wkshp (4)	

Total Credits **24**

*Common Course Number to be determined

Bachelor of Arts: Visual Arts Option

Program Mission Statement

The mission of the BA: Visual Arts Option is to provide education to those seeking personal enrichment and/or career opportunities related to the visual arts, including practicing studio artists and employees of art galleries, museums, and community arts centers, and provide educational preparation for those seeking continued graduate study in the visual arts.

Graduate Outcomes

Program graduates will demonstrate:

- skill with more than one artistic medium.
- understanding and use of vocabulary and theories of visual design.
- understanding of how art and artists reflect their culture or historical context.
- the use of electronic technologies to research art, artists, or create art.
- the ability to create artwork that visually communicates an idea and/or feeling to others.
- the ability to write about artists, about art history, and art criticism.
- the ability to discern the potential content of artwork.

Assessment

The graduate outcomes for the BA: Visual Arts Option are assessed through the graduate/exit survey, employer survey, alumni survey, feedback from internship supervisors, review of collected student-generated exhibits over time, and program self-study and/or reports from external reviews. The assessment plan for the BA: Visual Arts Option is available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accvisual/>.

BA: Visual Arts Option

General Education (see page 42 for full list)

Taking ART rubric courses is recommended to fulfill both General Education Humanities categories for this Option
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General Education Credits 31-32

Visual Arts Core

UMW Pre-CCN Course	CCN Equivalent Course	
ART 211 Art History I	ARTH 200 Art/World Civ I	4
ART 212 Art History II	ARTH 201 Art/World Civ II	4
ART 141 Drawing	ARTZ 105 Vis Lang-Drawing	4
ART 140 Color & Design	ARTZ 106 Vis Lang-2-D Fndtns	4
ART 271 Sculpture	ARTZ 108 Vis Lang-3-D Found	4
In consultation with your advisor, select <u>two</u> 2-D courses, <u>one</u> 3-D course, and <u>one</u> additional 200-level studio elective from the following:		16
ART 170 Intro/Photography [2-D] (4)	See course @ left	
ART 267 Painting [2-D] (4)	ARTZ 221 Painting I (4)	
ART 261 Watercolor [2-D] (4)	ARTZ 224 Watercolor I (4)	
ART 231 Ceramics [3-D] (4)	ARTZ 231 Ceramics I (4)	
ART 247 Glass [3-D] (4)	ARTZ 241 Glass I (4)	
ART 277 Fibers [3-D] (4)	ARTZ 267 Fibers Arts I (4)	
ART 243 Printmaking [2-D] (4)	ARTZ 271 Printmaking I (4)	
ART 270 Photography [2-D] (4)	See course @ left	
ART 225 Digital Media [2-D] (4)	MART 226 Intr/Dig Media 2D (4)	
Two 300-level Art courses	See courses @ left	8

Core Credits 44

Internship/Thesis

ART 499 Sr Exhibit & Thesis (4)	ARTZ 499A Sr Exhib & Thesis (4)	4
Students may additionally complete:		1-8
ART 400 Coop Ed/Internship (V 1-15)	ARTZ 498 Intrn/Coop Ed (V 1-15)	
ART 498 Sr Proj/Thesis (V 1-15)	ARTZ 499 Sr Proj/Thesis (V 1-15)	

Internship/Thesis Credits 4-12

Related Area (pages 78-79)

Select any one BA: Related Area	20-28
Note: Some Option/Related Area combinations will require completion of additional prerequisites for some classes.	

Related Area Credits 20-28

Electives

Select from any catalog courses (must have advisor's approval)	4-21
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Elective Credits 4-21

TOTAL CREDITS REQUIRED 120

BA: Visual Arts Option Related Areas

Business Related Area

UMW Pre-CCN Course	CCN Equivalent Course	
BUS 241 Financial Acctng	ACTG 201 Prin/Fin Actng	4
BUS 280 Business Law	BGEN 235 Business Law	4
BUS 201 Small Bus Development	BMGT 210 Sm Bus Entrepreneur	4
BUS 217 Bus/Elec Comm	See course @ left	4
COMS 115 Cmptr Basics/Educators	See course @ left	4
ECON 250 Prin/Economics	ECNS 203 Prin/Micro/Macro	4
Select 1 from the following:		4
BUS 329 Human Res Mgt (3)	BMGT 329 Hum Res Mgt (4)	
BUS 325 Prin/Prac/Mgt (3)	BMGT 335 Mgt & Org (4)	

Total Credits **28**

Illustration Related Area

ART 328 Illustration	See course @ left	4
ART 428 Adv Stu: Illustration	See course @ left	4
BUS 201 Small Bus Development	BMGT 210 Sm Bus Entrepreneur	4
ART 225 Digital Media	MART 226 Intr/Dig Media 2D	4
ART 325 Digital Media II	MART 326 Intrmed Dig Med 2D	4

Total Credits **20**

Pre-Art Therapy Related Area

PSY 275 Develop Psych	PSYX 230 Develop Psych	4
PSY 201 Intro/Cognition	PSYX 280 Fund/Mem/Cognit	4
PSY 452 Soc Psych/Grp Dyn	PSYX 360 Social Psych	4
PSY 437 Psych/Personality	PSYX 385 Psych/Personality	4
PSY 438 Abnormal Psych	PSYX 440 Abnorm Psych/Rsrch	4

Total Credits **20**

Studio Art Related Area

In consultation with your advisor, select 20 credits from the following courses, including at least 12 credits in Advanced Studio/Directed Study:		20
ART 342 Human Figure (4)	ARTZ 211 Drawing I (4)	
ART 371 Sculpture II (4)	ARTZ 251 Sculpture I (4)	
ART 341 Drawing II (4)	ARTZ 311 Drawing II (4)	
ART 367 Painting II (4)	ARTZ 321 Painting II (4)	
ART 331 Ceramics II (4)	ARTZ 331 Ceramics II (4)	
ART 347 Glass II (4)	ARTZ 341 Glass II (4)	
ART 377 Fibers II (4)	ARTZ 367 Fibers Art II (4)	
ART 343 Printmaking II (4)	ARTZ 371 Printmaking II (4)	
ART 381 Art Media Wkshp (V 1-4)	ARTZ 481 Computer Art III (4)	
ART 425-477 Adv Studio (V 1-4)	ARTZ 490 Directed Study courses (V 1-4)	
ART 325 Digital Media II (4)	MART 326 Intrmed Dig Media (4)	

Total Credits **20**

Bachelor of Arts

Other Available Related Areas

Drama Related Area

General Education

For Humanities: Literary & Artistic Studies category: FA 101/ARTH 160	4
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UMW Pre-CCN Course	CCN Equivalent Course	
FA 301 Contemp Arts Issues	ARTH 350 Cont Art/Art Crit	4
ENG 280 Visions/America	LIT 218 Visions/America	4
DR 441 Drama Hist/Lit Genre	LIT 441 Drma Hist/Lit Genr	4
ENG/DR 455 Shakespeare	LIT 473 Stdies/Shakespeare	4
DR 276 Acting Fund/Styles	THTR 120 Intro/Acting I	4
DR 243 Stagecraft/Costumes	THTR 202 Stgrcft I: Light/ Costumes	4
Select 2-4 credits from the following:		2-4
DR 217 Theatre Prac (V 1-2)	THTR 205 Thtr Wkshp II (V 1-2)	
DR 241 Play Prod/Intro/Dir (4)	THTR 276 Play Prod/Intro/ Dir (4)	
DR 346 Drama/Youth (2)	THTR 338 Drama/Youth (2)	
DR 401 Creatv Drama Meth (2)	THTR 401 Crtv Drma/ Improv (2)	
DR 466 Storytelling (2)	THTR 435 Storytelling (2)	
DR/ED/ENG 291/391/491 Film Courses (1-3)	See course @ left	

Total Credits **26-28**

Equine Studies Related Area

EQST 101 Intro/Equine Studies	EQUS 101 Intro/Equi Stdies	4
EQST 102 Equine Select/Judg	EQUS 102 Horse Conf/Select	4
EQST 201 Basic Horse Care/ Nutrition	EQUS 201 Basic Horse Care/Nutrition	4
EQST 202 Basic Equine Sci I	EQUS 202 Equine Sci I	4
EQST 203 Basic Equine Sci II	EQUS 203 Equine Sci II	4
EQST 204 Equine Facil Mgt	EQUS 204 Equine Facil Mgt	4
EQST 401 Adv Horse Care/ Nutrition	EQUS 425 Adv Horse Care/ Nutrition	4

Total Credits **28**

Music Related Area

UMW Pre-CCN Course	CCN Equivalent Course	
MUS 131 Music Theory I (2)	MUSI 107 Music Thry I/ Aural Percep (4)	4
MUS 141 Appld Musshp I (2)		
MUS 132 Music Theory II (2)	MUSI 109 Music Thry II/ Aural Percep (4)	4
MUS 142 Appld Musshp II (2)		
MUS 162 Voice in Class	MUSI 152 Voice in Class	4
MUS 115 Beg Guitar	MUSI 160 Beg Guitar	2
MUS 202 Intro/Music Lit	MUSI 202 Intro/Music Lit	4
MUS 461 Music History	See course @ left	4
Select 2 credits from the following:		2
MUS 365 Vocal Ensmble ² (1)	MUSI 312 Choir III: UMW ² (1)	
MUS 316 Concert Band ² (1)	MUSI 314 Band III: UMW Concert Band ² (1)	

Total Credits **24**

Visual Arts Related Area

(Not to be taken with BA: Visual Arts Option)

ART 140 Color/Design	ARTZ 106 Vis Lang-2-D Fnd	4
Select 1 from the following:		4
ART 211 Art History I (4)	ARTH 200 Art/Wrld Civ I (4)	
ART 212 Art History II (4)	ARTH 201 Art/Wrld Civ II (4)	
In consultation with your advisor, select 1 from the following:		4
ART 141 Drawing (4)	ARTZ 105 Vis Lang-Draw (4)	
ART 271 Sculpture (4)	ARTZ 108 Vis Lng-3-D Fnd (4)	
ART 170 Intro/Photog [2-D] (4)	See course @ left	
ART 267 Painting [2-D] (4)	ARTZ 221 Painting I (4)	
ART 261 Watercolor [2-D] (4)	ARTZ 224 Watercolor I (4)	
ART 231 Ceramics [3-D] (4)	ARTZ 231 Ceramics I (4)	
ART 247 Glass [3-D] (4)	ARTZ 241 Glass I (4)	
ART 277 Fibers [3-D] (4)	ARTZ 267 Fibers Arts I (4)	
ART 243 Printmaking [2-D] (4)	ARTZ 271 Printmaking I (4)	
ART 225 Digtl Media [2-D] (4)	MART 226 Intr/Dig Med (4)	
One 300-level studio course in same medium selected above		4
One 400-level Advanced Studio course in same medium selected above		4

Total Credits **20**

¹ With instructor approval

² Repeatable

Bachelor of Science Degrees

Bachelor of Science degrees offered within the College of Arts & Sciences:

- BS: Biology (page 81)
- BS: Environmental Interpretation (page 89)
- BS: Environmental Science (page 92)
- BS: Mathematics (page 98)

Double Majors with Secondary Education

Some of the Bachelor of Science degrees offered within the College of Arts & Sciences are also available as a Double Major with Secondary Education for students interested in teaching. For instance, in place of the Option Area and Internship required for the BS: Biology degree, the Biology & Secondary Education Double Major substitutes the Secondary Education Professional Education Core and the Student Teaching as requirements.

- Biology & Secondary Education Double Major (page 84/121)
- Mathematics & Secondary Education Double Major (page 101/129)

Two other combinations of Double Major are available. These are not stand-alone majors, and must be taken in conjunction with the Secondary Education major:

- Earth Science & Secondary Education Double Major (page 124)
[Note: Students completing the Earth Science program may also consider completing the BS: Environmental Science, Geology Option]
- General Science Broadfield & Secondary Education Double Major (page 126)

Bachelor of Science degrees offered within the School of Education, Business, & Technology:

- BS: Business Administration (page 85)
 - Business & Computer Applications: Advising Protocol for Educator Licensure (page 88/123)
- BS: Health & Human Performance (page 96)
- BS: Natural Horsemanship (page 102)

Bachelor of Science: Biology

Program Mission Statement

The mission of the Department of Biology is to provide students an outstanding and comprehensive undergraduate education in the life sciences. We strive to provide our students a fundamental understanding of the processes that govern living systems and the techniques necessary to study them. We prepare students to pursue careers in the life sciences, to understand complex biological issues, and to use scientific thinking throughout their lives. Student development occurs through a rigorous course of study that emphasizes interdisciplinary, experience-based classes and research projects. Faculty accessibility to students is a priority; therefore, we endeavor to offer small classes with integrated labs and research experiences that promote student and faculty interaction. Students gain work experience through thesis research and/or internships that are supervised by faculty and/or professional mentors. The Department serves the campus through (1) supporting the General Education program; (2) providing the scientific content that contributes to the certification of pre-service teachers; and (3) offering a Bachelor of Science degree, which includes various areas of focus or specialization.

Students graduating with this degree will be extremely well prepared to compete with peers for careers in many areas of the biological sciences. This degree is perfect for students interested in attaining careers after graduation in cutting edge fields such as the pharmaceutical industry, biotechnology, wildlife biology, ecology, government and private research labs, forensics, wildlife law enforcement, and many more. In addition, the curriculum of this degree has been tailored to provide students with all of the coursework necessary to attend top graduate and professional schools including Ph.D. and M.S. programs (in areas such as wildlife biology, ecology, molecular or cellular biology), veterinary medicine, medical school, dental school, pharmacy school, physician assistant, physical therapy, nursing, sports medicine, athletic training, and many others.

The Option Areas listed for the BS: Biology degree are designed to allow the student to attain additional coursework in a number of very popular and exciting areas within the biological sciences, while still preserving the student's flexibility to choose a career anywhere within biology. The Wildlife Ecology Option Area is designed for students who want to continue on to graduate studies in the exciting field of wildlife biology or ecology and for students who wish to begin a professional wildlife biology career. Job opportunities for students in this option include careers in the private sector with environmental consulting firms and laboratories, in state fish, wildlife and ecology departments, federal land and wildlife management agencies, or with non-governmental organizations working in fields of conservation and management of fish and wildlife. The Molecular Bioscience Option Area is perfect for students interested in many aspects of biomedical science including those interested in careers in the pharmaceutical industry, biotechnology, forensics, and research labs, as well as for those who wish to pursue advanced degrees in the biomedical sciences, including Ph.D., M.D., and D.V.M., or in many of the professional health sciences fields such as physical therapy, pharmacy, physician assistant, occupational therapy, sports medicine, athletic training, nursing, and more. The Molecular Bioscience Option Area is especially appropriate for students who want to continue on to veterinary school and is the only degree that contains all the prerequisite courses for acceptance into most veterinary schools. Finally, the Integrative Biology Option Area is designed for students who want more flexibility in the coursework required for their BS: Biology degree. This degree is especially appropriate for students who transfer to Montana Western with science courses that are not perfect equivalents of our required courses, and for students who would like to take courses from across different scientific disciplines.

All degree programs within the BS: Biology require students to complete an internship or senior thesis as part of their educational experience. This internship/thesis component is an especially important aspect of this degree, providing students with hands-on experience as they become actively involved in their own education. In many cases, students perform an internship by working or volunteering for an employer in their chosen area of interest. In addition, Montana Western's active faculty members provide students with a variety of opportunities to perform cutting-edge research projects in novel areas of cell/molecular biology, wildlife biology, ecology, and mathematical biology, as well as other areas within the discipline. These research opportunities allow students to closely interact with professors to design and implement experiments to address interesting and novel questions in biology, which can form the basis of a senior thesis project. In total, the Biology degree enables our students to gain both depth and breadth in preparation for their professional careers.

Graduate Outcomes

Program graduates will:

- display an understanding of basic concepts in the diverse fields of biology and related fields including cell biology, zoology, ecology, wildlife biology, molecular biology, genetics, evolution, inorganic chemistry, organic chemistry, statistics, calculus, and physics.
- acquire practical experience with research techniques and methods in the biological sciences by mastering basic laboratory and field techniques for asking biological questions.
- demonstrate ability to read and understand primary scientific literature in his/her discipline.
- exhibit ability to write a basic scientific paper.
- acquire real-world experience in biology through an internship or a senior thesis project.
- acquire skills and methods necessary to collect, analyze, and present data relevant to their field of study.
- demonstrate mastery of oral communication for effective interaction with colleagues and the community.
- demonstrate ability to use the scientific method for asking biological-related questions and formulating questions in a testable manner.
- develop the ability to conduct research both independently and as a member of a team.

Assessment

The graduate outcomes for the BS: Biology degree are assessed through the graduate/exit survey, employer survey, alumni survey, feedback from internship supervisors, review of collected student-generated exhibits over time, and program self-study and/or reports from external reviews. The assessment plan for the BA: Biology is available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accbiology/>.

BS: Biology

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
BIO 111 Biology I	<i>BIOB 160 Prin/Living Systems</i>	4
CHEM 131 Gen Chemistry	<i>CHMY 141 College Chem I</i>	4
MATH 131 Probability	<i>STAT 121 Probability</i>	4

General Education Credits 31-32

Major Core

BIO 112 Biology II	<i>BIOB 170 Prin/Biol Diversity</i>	4
BIO 255 Cell Biology	<i>BIOB 260 Cell/Molec Biol</i>	4
BIO 343 Genetics	<i>BIOB 375 Gen Genetics</i>	4
BIO 450 Evolution	<i>BIOB 420 Evolution</i>	4
BIO 477 Ecology	<i>BIOE 370 Gen Ecology</i>	4
BIO 214 Gen Botany	<i>BIOO 220 Gen Botany</i>	4
CHEM 132 Gen Chemistry	<i>CHMY 143 College Chem II</i>	4
CHEM 331 Organic Chem	<i>CHMY 321 Organic Chem I</i>	4
CHEM 332 Organic Chem	<i>CHMY 323 Organic Chem II</i>	4
MATH 201 Calculus I	<i>M 171 Calculus I</i>	4
PHYS 233 Gen Physics	<i>PHSX 220 Physics I</i>	4
PHYS 234 Gen Physics	<i>PHSX 222 Physics II</i>	
Select 1 from the following:		4
MATH 232 Statistics (4)	<i>STAT 217 Intrmed Stat Cncpts (4)</i>	
MATH/BIO 233 Biostats (4)	<i>STAT 233 Biostats (4)</i>	

Major Core Credits 52

Internship/Thesis

Select 1 from the following:		3
HHP 400 Coop Ed/Intern (3)	<i>KIN 498 Intern/Coop Ed (3)</i>	
BIO 400 Coop Ed/Intern (3)	<i>BIOB 498 Intern/Coop Ed (3)</i>	
See course @ right	<i>BIOB 494P Sem: Public Pres</i>	1

Internship/Thesis Credits 4

Option Area

Select one Option Area (page 83):	24
Integrative Biology (24)	
Molecular Bioscience (24)	
Wildlife Ecology (24)	

Option Area Credits 24

Electives

Select from any catalog courses	8-9
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Elective Credits 8-9

TOTAL CREDITS REQUIRED 120

**For Biology teaching licensure,
see BS: Biology & Secondary Education Double Major (page 84/121)**

BS: Biology Option Areas

Integrative Biology Option

UMW Pre-CCN Course	CCN Equivalent Course	
Select 2 courses at the 200-400 level from these rubrics (only 1 may be 200-level): <i>BIOB/BIOE/BIOH/BIOM/BIOO/WILD</i>		8
Select 4 elective courses at the 300-400 level from any of these rubrics: <i>BIOB/BIOE/BIOH/BIOM/BIOO/CHMY/ENSC/ EQUS/GEO/HHP/M/PHSX/STAT/WILD</i> or other course rubrics approved by a Biology advisor		16

Total Credits

24

Molecular Bioscience Option

BIO 425 Molec Biology	<i>BIOB 425 Adv Cell/Molec Biology</i>	4
BIO 262 Microbiology	<i>BIOM 260 Gen Microbiology</i>	4
CHEM 441 Biochemistry	See course @ left	4
Select 3 from the following:		12
BIO 270 Conserv Biol (4)	<i>BIOE 250 Conserv Biol (4)</i>	
BIO 371 Hum Anat/Physiol (4)	<i>BIOH 365 Hum AP I/Hlth Prof (4)</i>	
BIO 372 Hum Anat/Physiol (4)	<i>BIOH 370 Hum AP II/Hlth Prof (4)</i>	
See course @ right	<i>BIOM 427 Gen Parasitology (4)</i>	
BIO 479 Vertebrate Zool (4)	<i>BIOO 450 Vertebrate Zool (4)</i>	
MATH 401 Determ Modeling (4)	<i>M 414 Determ Models (4)</i>	
PHYS 235 Gen Physics III (4)	<i>PHSX 224 Physics III (4)</i>	
MATH/BIO 331 Bioinformatics (4)	<i>STAT 331 Bioinformatics (4)</i>	
MATH/BIO 332 Adv Field Stats (4)	<i>STAT 335 Adv Field Stats (4)</i>	
MATH 433 Stochastic Modeling (4)	<i>STAT 433 Stochastic Modeling (4)</i>	
BIO 471 Wildlife Ecol/Mgt (4)	<i>WILD 471 Wildlife Ecol/Mgt (4)</i>	
<i>BIOO 340 Biol/Mgt of Fishes (4)</i>	<i>WILD 473 Fisheries Ecol/Mgt (4)</i>	

Total Credits

24

Wildlife Ecology Option

BIO 270 Conserv Biology	<i>BIOE 250 Conserv Biology</i>	4
BIO 355 Systematic Botany	<i>BIOO 435 Plant Systematics</i>	4
BIO 471 Wildlife Ecol/Mgt	<i>WILD 471 Wildlife Ecol/Mgt</i>	4
Select 2 from the following:		8
BIO 473 Ornithology (4)	<i>BIOO 470 Ornithology (4)</i>	
BIO 475 Mammalogy (4)	<i>BIOO 475 Mammalogy (4)</i>	
<i>BIOO 340 Biol/Mgt of Fishes (4)</i>	<i>WILD 473 Fisheries Ecol/Mgt (4)</i>	
Select 1 from the following:		4
BIO 425 Molec Biology (4)	<i>BIOB 425 Adv Cell/Molec Biol (4)</i>	
See course @ right	<i>BIOE 425 Wetlands Ecology (4)</i>	
See course @ right	<i>BIOM 427 Gen Parasitology (4)</i>	
BIO 273 Entomology (4)	<i>BIOO 262 Intro/Entomology (4)</i>	
BIO 479 Vertebrate Zool (4)	<i>BIOO 450 Vertebrate Zool (4)</i>	
BIO 473 Ornithology (4)	<i>BIOO 470 Ornithology (4)</i>	
BIO 475 Mammalogy (4)	<i>BIOO 475 Mammalogy (4)</i>	
MATH 401 Determ Modeling (4)	<i>M 414 Determ Models (4)</i>	
MATH/BIO 332 Adv Field Stats (4)	<i>STAT 335 Adv Field Stats (4)</i>	
MATH 433 Stochastic Modeling (4)	<i>STAT 433 Stochastic Modeling (4)</i>	
<i>BIOO 340 Biol/Mgt of Fishes (4)</i>	<i>WILD 473 Fisheries Ecol/Mgt (4)</i>	

Total Credits

24

BS: Biology & Secondary Education Double Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or teaching minor) to increase their hiring options. For Biology majors, adding the General Science Broadfield Major is recommended. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

General Education (see page 42 for full list)

General Education Credits

31-32

UMW Pre-CCN Course	CCN Equivalent Course	
BIO 111 Biology I	BIOB 160 Prin/Living Syst	4
CHEM 131 Gen Chem	CHMY 141 College Chem I	4
ENVS 201 Hist/Phil/Science	PHL 241 Hist/Phil/Science	4
MATH 131 Probability	STAT 121 Probability	4

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

Biology Major Content Core

Major Credits

52

BIO 112 Biology II	BIOB 170 Prin/Biol Diversity	4
BIO 255 Cell Biology	BIOB 260 Cell/Molec Biol	4
BIO 343 Genetics	BIOB 375 Gen Genetics	4
BIO 450 Evolution	BIOB 420 Evolution	4
BIO 477 Ecology	BIOE 370 Gen Ecology	4
BIO 214 Gen Botany	BIOO 220 Gen Botany	4
CHEM 132 Gen Chem	CHMY 143 College Chem II	4
CHEM 331 Organic Chem	CHMY 321 Organic Chem I	4
CHEM 332 Organic Chem	CHMY 323 Organic Chem II	4
MATH 201 Calculus I	M 171 Calculus I	4
PHYS 233 Gen Physics	PHSX 220 Physics I	4
PHYS 234 Gen Physics	PHSX 222 Physics II	4
Select 1 from the following:		4
MATH 232 Statistics (4)	STAT 217 Int Statistcl Cncpts (4)	
MATH/BIO 233 Biostatistics (4)	STAT 233 Biostatistics (4)	

Secondary Education majors do not take **BIOB** or **HHP 400/ACT 498**, or **BIOB 494P**.

Additional courses recommended for Secondary Education

BIO 371 Hum Anat/Physiol (4)	BIOH 365 Hum Anat/Phys I/Hlth Prof (4)
BIO 372 Hum Anat/Physiol (4)	BIOH 370 Hum Anat/Phys II/Hlth Prof (4)
BIO 262 Microbiology (4)	BIOB 260 Gen Microbiol (4)

For Biology & Secondary Education Double Major

(courses below substitute for the Biology Option Area and the Biology Internship)

Professional Education Core (see page 118 for recommended course sequence)

Professional Ed Core Credits

32

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
ED 355 Meth/Mat Exper Sci Ed	EDU 497S Meth: 5-12 Science	4
Select 1 from the following:		4
HHP 241 Pers/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426).		
*CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Electives

Elective Credits

0-1

Select from any catalog courses	0-1
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Student Teaching

Student Teaching Credits

12

ED 473 Stu Tchg-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED

128

Bachelor of Science: Business Administration

Program Mission Statement

Offering a unique combination of traditional business courses and options that incorporate technology, problem-based learning, and hands-on and team-based projects, the BS: Business Administration degree is designed to challenge students to acquire the practical, intellectual, technological, problem-solving, and communications skills necessary for successful participation in a diverse, dynamic, and global society. While the program is delivered using a small business, rural context, graduates are well prepared for joining a large corporation as well as pursuing a master's degree in business administration.

Graduate Outcomes

Program graduates:

- understand and apply fundamental concepts and practices of business administration, primarily management, marketing, finance, and operations.
- understand and apply economic principles.
- develop an ability to identify problems, collect and assess data, and present solutions using innovation and organizational skills.
- utilize computer software and hardware tools for problem-solving, decision-making, and communication.
- exhibit effective oral and written communications skills for successful interactions in business settings.
- demonstrate creative, ethical behavior in individual and team-based projects while learning to stay focused and use personal initiative to accomplish established goals.
- recognize and respect the diversity implicit in global society.

Assessment

The University of Montana Western has received specialized accreditation for its Bachelor of Science and Bachelor of Applied Science degree programs in Business through the International Assembly for Collegiate Business Education (IACBE), Olathe, Kansas.

Graduate outcomes are assessed using both direct and indirect measures: oral/written communications skills assessed at beginning, midpoint, and end of the BS: Business Administration program, nationally recognized and normed standardized exam administered to all senior students, internship evaluation from supervisors, exit interviews with graduating seniors, alumni surveys, and cumulative evaluation of faculty performance. An assessment plan can be obtained from the Department of Business & Technology.

BS: Business Administration

General Education (see page 42 for full list)

General Education Credits **31-32**

UMW Pre-CCN Course	CCN Equivalent Course	
ECON 252 Prin/Microecon	ECNS 201 Prin/Micro	4

Business Administration Core

Core Credits **50**

BUS 241 Financial Acctng	ACTG 201 Prin/Fin Acctng	4
BUS 242 Managerial Acctng	ACTG 202 Prin/Manag Acctng	4
BUS 341 Business Finance	BFIN 322 Business Finance	4
BUS 280 Business Law	BGEN 235 Business Law	4
BUS 253 Bus Rsrch/Statist Analysis	BGEN 253 Bus Stats/Rsrch	4
BUS 355 Operations Mgt	BMGT 322 Operations Mgt	4
BUS 325 Prin/Prac/Mgt	BMGT 335 Mgt & Org	4
BUS 461 Sm Bus Mgt/Strat Planning	BMGT 499 Capstone	4
BUS 347 Prin/Prac/Mrktng	BMKT 325 Prin/Marketing	4
BUS 217 Bus/Elec Comm	See course @ left	4
COMS 135 Comp Applications	CAPP 131 Basic MS Office	4
BUS 400 Internship	See course @ left	6

Option Area

Option Area Credits **32**

Select one Option (page 87):	32
Equine Management (32)	
Health & Fitness Mgt (32)	
Small Business Management (32)	
Web & Digital Media (32)	

Electives

Elective Credits **6-7**

6-7 credits from any general education rubric category for which prerequisites have been met (must be non-business courses; these rubrics shall NOT BE used to meet this requirement: ACTG/BUS/CAPP/COMS/ED/EDU/EQST/EQUH/EQUS/HHP/HTR/IT)	6-7
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TOTAL CREDITS REQUIRED **120**

BS: Business Administration

Option Areas

Equine Management Option

UMW Pre-CCN Course	CCN Equivalent Course	
BUS 201 Sm Bus Develop	BMGT 210 Sm Bus Entrep	4
BUS 461 Sm Bus Mgt/Strat Plan	BMGT 499 Capstone	4
EQST 101 Intro/Equine Studies	EQUS 101 Intro/Eqn Stdies	4
EQST 102 Equine Selec/Judging	EQUS 102 Egn. Selec/Judg	4
EQST 201 Bsc Horse Care/Nutr	EQUS 201 Basic Horse Care/Nutrition	4
EQST 202 Bsc Equine Science I	EQUS 202 Equine Sci I	4
EQST 203 Bsc Equine Science II	EQUS 203 Equine Sci II	4
EQST 204 Equine Facilities Mgt	EQUS 204 Equine Facil Mgt	4

Total Credits **32**

Health & Fitness Management Option

HHP 311 Athletic Training I	AHAT 210 Prev/Care Athl Inj	4
HHP 241 Pers/Comm Health	HEE 340 Meth/Hlth Educ	4
HHP 347 Org/Adm/Hlth Enhanc	HEE 410 Org/Adm/Sprt Fimss	4
HHP 143 Found/Health/PE	KIN 205 Found/Sci Fund/HHP	4
HHP 317 Exercise Physiol	KIN 320 Exercise Physiol	4
HHP 315 Biomechanics	KIN 325 Biomechanics	4
HHP 416 Cond Prog Devel	KIN 410 Adv Strngth Trng/Conditioning	4
HHP 364 Nutrition	NUTR 411 Nutr/Sports Exercs	4

Total Credits **32**

Small Business Management Option

BUS 327 Risk Mgt/Ins	BMGT 327 Risk Mgt/Ins	4
BUS 329 Hum Rsrc Mgt	BMGT 329 Hum Rsrc Mgt	4
BUS 301 Entrepreneurship	BMGT 448 Entrepreneurship	4
BUS 349 Consumer Behavior	BMKT 337 Consmr Behav	4
BUS 304 Leadership	See course @ left	4
ECON 434 Rsrc Economics	ECNS 332 Econ/Nat Rsrcs	4
Select 1 from the following:		4
COMS 205 Bus Info Systems (4)	BMIS 270 MIS Found/Bus	
COMS 236 Adv Micro Appl (4)	CAPP 251 Adv MS Office (4)	
4 credits from any general education rubric category for which prerequisites have been met (must be non-business courses; these rubrics shall NOT BE used to meet this requirement: ACTG/BUS/CAPP/COMS/EDU/ EQST/EQUH/EQUS/HHP/HTR/IT)		4

Total Credits **32**

Tourism Option

Note: This program is currently on moratorium. Contact the Provost regarding availability of this degree.

UMW Pre-CCN Course	CCN Equivalent Course	
BUS 202 Customer Serv	See course @ left	3
BUS 304 Leadership	See course @ left	4
ECON 334 Econ/Tour/Rec	ECNS 334 Econ/Tour/Rec	3
HTR 112 Fund/Tourism	HTR 112 Fund/Tourism	3
HTR 210 Destination Geog	HTR 210 Destination Geog	4
Select 9 credits from the following:		9
HTR 350 Resort Mgt (3)	BMGT 350 Resort Mgt (3)	
HTR 355 Mtg Planning (3)	BMGT 355 Conven Mgt (3)	
HTR 345 Special Events (3)	BMGT 401 Event Mgt (3)	
HTR 322 Group Travel (3)	HTR 322 Group Travel (3)	
8 credits from any general education rubric category for which prerequisites have been met (must be non-business courses; these rubrics shall NOT BE used to meet this requirement: ACTG/BUS/CAPP/COMS/ED/EDU/EQST/EQUH/EQUS/ HHP/HTR/IT)		8

Total Credits **34**

Web & Digital Media Option

COMS 205 Bus Info Systems	BMIS 270 MIS Found/Bus	4
COMS 210 Comp Hrdwr/Sftwr Mgt	ITS 205 Cmp Hrd/Sftwr Mgt	4
COMS 212 Intro/Web Design	See course @ left	4
COMS 235 Video/Audio Design	See course @ left	4
COMS 242 Dig Print Media	See course @ left	4
COMS 325 Dig Graphics/Animat Design	See course @ left	4
COMS 335 Adv Web Design	See course @ left	4
COMS 410 Capstone Project	See course @ left	4

Total Credits **32**

Other Options

Related Areas in any Catalog discipline may be used as the student's Option. The Related Area will consist of not less than 34 credits including all of the following:

Completion of all courses in chosen Related Area		34 min
Completion of the following:		6-8
BUS 201 Sm Bus Develop (3)	BMGT 210 Sm Bus Entrep (4)	
BUS 461 Sm Bus Mgt/Strat Plan (3)	BMGT 499 Capstone (4)	

Secondary Business Education Teaching Option:

Students who have completed the BS: Business Administration and would like to obtain a teaching license in business education must complete Secondary Education requirements (page 88).

Business & Computer Applications: Advising Protocol for Educator Licensure (for students who have a Bachelor's Degree in Business and are seeking a teaching license)

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

Required:

1. Bachelor's degree in Business.
2. Must meet the following minimum requirements for entrance into the Teacher Education Program (TEP):
 - a. overall GPA in undergraduate Business degree program, with no grade lower than C- in courses required for the major.
 - b. completion of the TEP application form.
3. Must complete all requirements of TEP, including successful completion of Gateways 1, 2, and 3 of the TEP evaluation process.
4. Must pass a criminal background check prior to being admitted to the field experiences for the professional education classes and prior to student teaching.
5. Contact the Director of Field Experiences for licensure information.

Following is the class layout for those students who already have obtained a BS: Business Administration and would like to get their teaching certification.

Students must complete the required education courses below:

UMW Pre-CCN Course	CCN Equivalent Course	
BUS 351 Methods & Materials in Business Theory Subjects	See course @ left	2
COMS 351 Methods & Materials in Computer Applications	<i>BMIS 397 Methods & Materials in Computer Applications</i>	2
ED 120 Becoming a Professional Educator	<i>EDU 201 Introduction to Education with Field Experience</i>	4
ED 253 Psychological Foundations of Teaching & Learning	<i>EDU 222 Educational Psychology & Child Development</i>	4
See course @ right	<i>EDU 306 School Law & Advocacy for All K-12 Learners</i>	4
ED 425 Multicultural/Global Education (3)	<i>EDU 311 Cultures, Diversity, & Ethics in Global Education (4)</i>	4
ED 426 Multicultural/Global Education Practicum (1)		
ED 328 Curriculum, Instruction, Assessment & Management (3)	<i>EDU 382 Assessment, Curriculum, & Instruction (4)</i>	4
ED 329 Curriculum, Instruction, Assessment & Management Practicum (1)		
ED 445 Methods of Teaching Content Area Literacy	<i>EDU 481 Content Area Literacy</i>	2
See course @ right	<i>EDU 491D Educational Management & Discipline for Secondary Education</i>	4
ED 473 Student Teaching-Secondary	<i>EDU 495S Student Teaching: 5-12</i>	8
Select 1 from the following:		4
HHP 241 Personal & Community Health (4)	<i>HEE 340 Methods of Health Education (4)</i>	
HHP 245 Human Sexuality (4)	<i>HTH 220 Human Sexuality (4)</i>	

Students may also be required to take additional computer application courses, depending upon the courses they have previously taken:

COMS 205 Business Information Systems (4)	<i>BMIS 270 MIS Foundations for Business (4)</i>
COMS 135 Microcomputer Applications (4)	<i>CAPP 131 Basic Microsoft Office (4)</i>
COMS 236 Advanced Microcomputer Applications (4)	<i>CAPP 251 Advanced Microsoft Office (4)</i>
COMS 339 Database Management (3)	<i>CAPP 258 Advanced Microsoft Access (3)</i>
COMS 212 Introduction to Web Design (4)	See course @ left
COMS 210 Computer Hardware & Software Management (4)	<i>ITS 205 Computer Hardware & Software Management (4)</i>

For Those Who Already Hold a Teaching License

For individuals who already hold a teaching license in another secondary education content area, adding a new content area endorsement in Business & Computer Applications Education requires completion of appropriate content coursework, including COMS 351 (*BMIS 397*) and BUS 351. Some professional education courses may be waived. These individuals are not required to complete student teaching (ED 473/*EDU 495S*) or an internship, unless seeking an additional degree. Individuals with an elementary education license must complete a teaching internship in an appropriate secondary classroom (4 credits of supervised internship for at least two semesters).

Bachelor of Science: Environmental Interpretation

Program Mission Statement

The mission of the BS: Environmental Interpretation degree is to provide students with an understanding of the natural processes that create and shape Earth's environments and the skills to communicate their understanding of these processes to a lay audience. Students will become informed, critical thinkers capable of evaluating environmental processes and issues, and will develop the skills to communicate their understanding to other people, especially those with little informal training in the natural sciences. Student development occurs through a course of study that emphasizes interdisciplinary, field-based projects that have societal relevance and require them to communicate their understanding to others. Students gain authentic experience communicating their understanding of the natural world through internships that are supervised by faculty and/or non-academic mentors.

The BS: Environmental Interpretation degree is designed to prepare students to pursue career opportunities as environmental interpreters, naturalists, informal science educators, and conservation enforcement officers. The intellectual foundation of the Environmental Interpretation degree is a strong background in the field-based natural sciences in combination with courses that focus on communicating the natural sciences to the public, requires a holistic understanding of how the natural world works, and the societal implications and applications of this knowledge.

The University of Montana Western has an agreement with the National Outdoor Leadership School (NOLS), a recognized leader in outdoor education, which allows students to seamlessly transfer earned credits between NOLS and UMW. UMW also holds institutional membership with the National Association for Interpretation (NAI) and offers students the opportunity to take part in the Certified Interpretive Guide (CIG) curriculum and certification process as part of the BS program curriculum.

Graduate Outcomes

Program graduates will:

- demonstrate knowledge about the natural processes that create and shape our environment.
- acquire skills and methods necessary to communicate discipline-specific knowledge to others.
- demonstrate knowledge of the concepts central to his/her field of study.

Assessment

The graduate outcomes for the BS: Environmental Interpretation degree are assessed through the graduate/exit survey, employer survey, alumni survey, feedback from internship supervisors, review of collected student-generated exhibits over time, and program self-study and/or reports from external reviews. The assessment plan for the BS: Environmental Interpretation is available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accenviroint/>.

BS: Environmental Interpretation Major

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
BIO 111 Biology I	BIOB 160 Prin/Living Systems	4
PSY 100 Gen Psychology	PSYX 100 Intro/Psychology	4
MATH 131 Probability	STAT 121 Probability	4

General Education Credits **31-32**

Major Core

ANTH 105 Intro/Ctrl Anthro	ANTY 220 Culture/Society	4
BIO 112 Biology II	BIOB 170 Prin/Biol Diversity	4
BIO 103 Intro/Ethnobotany	BIOO 120 Intro/Ethnobotany	4
BIO 214 Gen Botany	BIOO 220 Gen Botany	4
ENVS 280 Enviro Interp I	ENST 275 Enviro Interp I	4
ENVS 381 Natural Resource Law	ENST 382 Enviro Law	4
ENVS 480 Enviro Interp II	ENST 475 Enviro Interp II	4
ENVS 260 Wldlnds Skills: Night Sky	See course @ left	2
ENVS 269 Wldlnds Skills: Map/Comp/GPS	See course @ left	2
GEO 150 Enviro Geology	GEO 103 Intro/Enviro Geology	4
GEO 230 Geol/Amer West	GEO 230 Geol/Amer West	4
ENVS 372 Our Wildland Heritage	NRSM 372 Our Wildland Heritage	4
ENVS 441 Sust Resource Mgt	NRSM 441 Sust Resource Mgt	4
Select 1 from the following:		4
CHEM 101 Intro/Chemistry (4)	CHMY 121 Intro/Gen Chemistry (4)	
CHEM 131 Gen Chemistry (4)	CHMY 141 College Chem I (4)	

Core Credits **52**

Internship/Thesis

ENVS 495 Internship/Thesis Presentation	ENSC/ENST 494P Sem: Pblic Pres	1
Select 3 credits from the following:		3
ENVS 400 Internship	ENSC/ENST 498 Intern/Coop Ed	
ENVS 498 Sr Thesis	ENSC/ENST 499 Sr Thesis/ Capstn	

Internship/Thesis Credits **4**

Option

Select one Option:	24
Biological Naturalist (24)	
Geological Naturalist (24)	
Pre-professional Conservation Officer (24)	

Option Credits **24**

Electives

Select from any catalog courses	8
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Elective Credits **8**

TOTAL CREDITS REQUIRED **120**

BS: Environmental Interpretation

Option Areas

Biological Naturalist Option

UMW Pre-CCN Course	CCN Equivalent Course	
See course @ right	BIOE 425 Wetlands Ecology	4
BIO 355 Systematic Botany	BIOO 435 Plant Systematics	4
BIO 475 Mammalogy	BIOO 475 Mammalogy	4
ENVS 429 Enviro Field Studies	ENSC 429 Enviro Field Studies	4
Select 2 from the following:		8
BIO 471 Wildlife Ecol/Mgt (4)	BIOO 450 Vertebrate Zoology (4)	
BIO 473 Ornithology (4)	BIOO 470 Ornithology (4)	
BIO 479 Vertebrate Zoology (4)	WILD 471 Wildlife Ecol/Mgt (4)	

Total Credits

24

Geological Naturalist Option

ENVS 348 Soil Science	ENSC 348 Soil Science	4
GEOL 226 Rocks/Min/Resources	GEO 226 Rocks/Min/Resources	4
GEOL 330 Structure/Tectonics	GEO 315 Structural Geology	4
GEOL 378 Surficial Processes	GEO 378 Surficial Processes	4
Select 2 from the following:		8
ENVS 429 Enviro Field Studies (4)	ENSC 429 Enviro Field Studies (4)	
GEOL 432 Depositional Envs (4)	GEO 309 Sediment/Stratigraphy (4)	
GEOL 480 Hydrogeology (4)	GEO 421 Hydrology (4)	

Total Credits

24

Pre-professional Conservation Officer Option

BIO 355 Systematic Botany	BIOO 435 Plant Systematics	4
ENVS 429 Enviro Field Studies	ENSC 429 Enviro Field Studies	4
ENVS 372 Wildland Heritage	NRSM 372 Our Wildland Heritage	4
Select 1 from the following:		4
See course @ right	ISSS 202 Polit Geog/Rcky Mtn West (4)	
SOC 320 Mediation (4)	SOCI 360 Mediation (4)	
Select 2 from the following:		8
BIO 479 Vertebrate Zoology (4)	BIOO 450 Vertebrate Zoology (4)	
BIO 473 Ornithology (4)	BIOO 470 Ornithology (4)	
BIO 475 Mammalogy (4)	BIOO 475 Mammalogy (4)	

Total Credits

24

Bachelor of Science: Environmental Science

Program Mission Statement

The mission of the BS: Environmental Science degree is to provide students with an in-depth understanding of the natural processes that create and shape our environment, as well as knowledge of the human impact on the environment. Students will become informed, critical thinkers capable of scientifically evaluating complex issues involving the environment. Student development occurs through a course of study that emphasizes interdisciplinary, field-based research projects that have societal relevance. Students also gain authentic disciplinary experience through thesis research and/or internships that are supervised by faculty and/or industry mentors.

Many careers for those with BS: Environmental Science degrees are available in the area of natural resources study and management. Those with a background in environmental sciences are needed in many state and federal agencies as well as in private industry and consulting firms. The degree prepares students for entry-level positions in many of these areas and provides excellent background for the graduate training required for entry into and success in graduate programs in many science areas.

Graduate Outcomes

Program graduates will:

- demonstrate knowledge about the natural processes that create and shape our environment.
- acquire skills and methods necessary to collect, analyze, and present data relevant to their field of study.
- develop the ability to conduct research both independently and in a team.
- be able to communicate effectively with colleagues and the community.
- demonstrate knowledge of the concepts central to his/her field of study, including scientific and quantitative skills.

Assessment

The graduate outcomes for the BS: Environmental Science degree are assessed through the graduate/exit survey, employer survey, alumni survey, feedback from internship supervisors, review of collected student-generated exhibits over time, and program self-study and/or reports from external reviews. The assessment plan for the BS: Environmental Science degree is available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accenviro/>.

BS: Environmental Science

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
BIO 111 Biology I	BIOB 160 Prin/Living Systems	4
GEO 150 Enviro Geology	GEO 103 Intro/Enviro Geology	4
MATH 131 Probability	STAT 121 Probability	4

General Education Credits

31-32

Major Core

BIO 214 Gen Botany	BIOO 220 Gen Botany	4
CHEM 131 Gen Chemistry	CHMY 141 College Chem I	4
CHEM 132 Gen Chemistry	CHMY 143 College Chem II	4
ENVS 269 Wldlnds Skills: Map/Comp/GPS	See course @ left	2
ENVS 348 Soil Science	ENSC 348 Soil Science	4
ENVS/ENSC 391 GIS Seminar	ENSC 394 GIS Seminar	2
ENVS 429 Enviro Field Studies	ENSC 429 Enviro Field Studies	4
GEO 226 Rocks/Min/Resources	GEO 226 Rocks/Min/Resources	4
MATH 201 Calculus I	M 171 Calculus I	4
ENVS 441 Sust Resource Mgt	NRSM 441 Sust Resource Mgt	4
PHYS 233 Gen Physics I	PHSX 220 Physics I	4
Select 1 from the following:		4
MATH 232 Statistics (4)	STAT 217 Intrmed Stat Cncpts (4)	
MATH/BIO 233 Biostatistics (4)	STAT 233 Biostatistics (4)	

Major Core Credits

48

Internship/Thesis

ENVS 495 Internship/Thesis Presentation	ENSC/ENST 494P Sem: Pblc Pres	1
Select 3 credits from the following:		3
ENVS 400 Internship	ENSC/ENST 498 Intern/Coop Ed	
ENVS 498 Sr Thesis	ENSC/ENST 499 Sr Thesis/ Capstn	

Internship/Thesis Credits

4

Option

Select one Option:	28
Environmental Geochemistry (28)	
Geology (28)	
Sustainable Natural Resource Management (28)	
Wetlands Management (28)	

Option Credits

28

Electives

Select from any catalog courses	8
Note: Students seeking federal employment or graduate school in the sciences should take the following: MATH 202 Calculus II/M 172 Calculus II; and either PHYS 234 General Physics/PHSX 222 Physics II or PHYS 235 General Physics III/PHSX 224 Physics III.	

Elective Credits

8

TOTAL CREDITS REQUIRED

120

**For Earth Science teaching licensure,
see Advising Protocol
BS: Environmental Science & Secondary Education (page 95)**

BS: Environmental Science

Option Areas

Environmental Geochemistry Option

UMW Pre-CCN Course	CCN Equivalent Course	
See course @ right	<i>BIOE 425 Wetlands Ecology</i>	4
CHEM 331 Organic Chem	<i>CHMY 321 Organic Chem I</i>	4
CHEM 332 Organic Chem	<i>CHMY 323 Organic Chem II</i>	4
GEOL 432 Depositional Envtls	<i>GEO 309 Sediment/Stratigraphy</i>	4
GEOL 378 Surficial Processes	<i>GEO 378 Surficial Processes</i>	4
GEOL 480 Hydrogeology	<i>GEO 421 Hydrology</i>	4
GEOL/CHEM 431 Enviro Geochem	<i>GEO/CHMY 431 Enviro Geochem</i>	4
Total Credits		28

Geology Option

GEOL 230 Geol/Amer West	<i>GEO 230 Geol/Amer West</i>	4
GEOL 432 Depositional Envtls	<i>GEO 309 Sediment/Stratigraphy</i>	4
GEOL 330 Structure/Tectonics	<i>GEO 315 Structural Geology</i>	4
GEOL 378 Surficial Processes	<i>GEO 378 Surficial Processes</i>	4
GEOL 480 Hydrogeology	<i>GEO 421 Hydrology</i>	4
GEOL/CHEM 431 Enviro Geochem	<i>GEO/CHMY 431 Enviro Geochem</i>	4
GEOL 409 Geology Seminar	<i>GEO 494 Sr Geol Seminar</i>	4
Total Credits		28

Sustainable Natural Resource Management Option

BIO 103 Intro/Ethnobotany	<i>BIOO 120 Intro/Ethnobotany</i>	4
BIO 355 Systematic Botany	<i>BIOO 435 Plant Systematics</i>	4
ENVS 180 Appl Sust Landscape Hort	See course @ left	4
ENVS 280 Enviro Interp I	<i>ENST 275 Enviro Interp I</i>	4
ENVS 381 Natural Resource Law	<i>ENST 382 Enviro Law</i>	4
GEOL 378 Surficial Processes	<i>GEO 378 Surficial Processes</i>	4
GEOL 480 Hydrogeology	<i>GEO 421 Hydrology</i>	4
Total Credits		28

Wetlands Management Option

See course @ right	<i>BIOE425 Wetlands Ecology</i>	4
BIO 355 Systematic Botany	<i>BIOO 435 Plant Systematics</i>	4
GEOL 432 Depositional Envtls	<i>GEO 309 Sediment/Stratigraphy</i>	4
GEOL 378 Surficial Processes	<i>GEO 378 Surficial Processes</i>	4
GEOL 480 Hydrogeology	<i>GEO 421 Hydrology</i>	4
GEOL/CHEM 431 Enviro Geochem	<i>GEO/CHMY 431 Enviro Geochem</i>	4
<i>Select 1 from the following:</i>		4
ENVS 381 Natural Resource Law (4)	<i>ENST 382 Enviro Law (4)</i>	
ENVS 180 Appl Sust Landscape Hort (4)	See course @ left	
Total Credits		28

Advising Protocol

BS: Environmental Science & Secondary Education

(for Students Interested in a Teaching Career)

Students planning to obtain a BS: Environmental Science, with a Geology Option, who also wish to teach in secondary schools (grades 5-12), may wish to simultaneously pursue the double major in Earth Science & Secondary Education.

(Note: students cannot apply for a major in Earth Science alone—it must be awarded in conjunction with the Major in Secondary Education; see page 124.)

Admission to the Teacher Education Program (TEP) and completion of all requirements of the Teacher Education Program are required (see page 118).

Students pursuing the BS: Environmental Science, Geology Option, would complete the following additional coursework to pursue the additional Double Major in Earth Science & Secondary Education:

UMW Pre-CCN Course	CCN Equivalent Course	
PHYS 240 Astronomy	ASTR 110 Intro/Astronomy	4
ENVS 201 Hist/Phil/Science	PHL 241 Hist/Phil/Science	4
PHYS 239 Physical Meteorol	PHSX 249 Physical Meteorol	4

Secondary Education Major:

Professional Education Core (see page 116 for recommended course sequence)

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs (2)	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
ED 355 Meth/Mat/Exper Sci Ed	EDU 497S Meth: 5-12 Science	4
Take 1 from the following:		4
HHP 241 Pers/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Professional Ed Core Credits 32

Student Teaching

ED 473 StuTeaching-Secondary	EDU 495S Stu Tchg: 5-12	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during, or prior to, student teaching)	4

Student Teaching Credits 12

Bachelor of Science: Health & Human Performance

Program Mission Statement

The mission of the BS: Health & Human Performance degree is to provide students with an in-depth understanding of the nutritional, physiological, biomechanical, psycho-social, artistic, and recreational dimensions of human activity and health, and to prepare them with the skills to successfully apply this knowledge to graduate study or professional careers in the field. Through extensive hands-on and authentic field research and experiences, students will become critical thinkers capable of applying knowledge, evaluating complex issues in the field of health and human performance, and creating new relevant knowledge based on their own investigations.

The BS: Health & Human Performance program provides preparation for students planning to pursue graduate studies or employment in the rapidly expanding fields of personal/corporate fitness and wellness programming, public health, exercise science, and exercise prescription. Students who wish to become teachers should refer to the BS: Physical Education & Health K-12 degree program (page 132).

The degree includes extensive coursework in the health and human performance field along with courses from business, communications, and leisure services. In addition, the HHP degree enables students to select 14-15 elective credits in order to further specialize their degree to match their career or graduate school goals. Since this degree is a subject area degree rather than an education degree, it would also facilitate admission to graduate studies in the field or to post-baccalaureate or graduate level teacher licensure programs requiring an undergraduate major in a specific subject area. Students currently pursuing the Physical Education & Health K-12 teaching degree can easily transition into the BS: HHP degree if they decide not to seek teacher licensure, and students in the BS: HHP degree could easily transfer into the BS: Physical Education & Health K-12 degree if they decide they do want to teach.

Graduate Outcomes

Program graduates will:

- demonstrate, apply, and communicate knowledge about factors affecting and enhancing human health and physical performance.
- demonstrate the skills and dispositions necessary to collect, analyze, and communicate information relevant to human health and physical performance.
- demonstrate the skills and dispositions necessary to work and communicate effectively with peers, clients, and the community.

Assessment

Graduate outcomes for the BS: Health & Human Performance degree are assessed through continuous student performance assessments and feedback, graduate/exit surveys, employer/graduate major professor surveys, alumni surveys, program self-study, and accreditation reviews. An assessment plan can be obtained from the Department of Health & Human Performance.

BS: Health & Human Performance

General Education (see page 42 for full list)

General Education Credits **31-32**

Health & Human Performance Major Core

Major Core Credits **68**

UMW Pre-CCN Course	CCN Equivalent Course	
HHP 311 Athletic Training I	AHAT 210 Prev/Care Athl Inj	4
BUS 304 Leadership	See course @ left	4
COMS 101 Intro/Comptr/Pres	CAPP 100 Shrt Crs: Comptr Lit	1
HHP 205 Dance/Rhythm Meth/Tech I	DANC 285 Danc/Rhyth Meth/Tech I	1
HHP 206 Dance/Rhythm Meth/Tech II	DANC 286 Danc/Rhyth Meth/Tech II	1
HHP 231 First Aid/Safety	ECP 100 First Aid/CPR	1
HHP 201 Team Sport Methods/Tech	HEE 304 Meth/Team Sports	4
HHP 202 Indiv/Dual Sport Meth/Tech	HEE 303 Meth/Lifetime Fitness Act	4
HHP 241 Pers/Comm Health	HEE 340 Meth/Hlth Educ	4
HHP 347 Org/Admin/Health Enhanc	HEE 410 Org/Admin/Sport Fitness	4
HHP 245 Human Sexuality	HTH 220 Human Sexuality	4
HHP 240 Leisure Services	HTR 240 Leisure Services	4
HHP 143 Found/Health & PE	KIN 205 Found/Sci Fund/HHP	4
See course @ right	KIN 221 Hlth Anat/Physiol	4
HHP 317 Exercise Physiology	KIN 320 Exercise Physiology	4
HHP 315 Biomechanics	KIN 325 Biomechanics	4
HHP 319 Motor Learning/Psychol	KIN 330 Motor Lrng/Control	4
HHP 416 Conditioning Prog Devel	KIN 410 Adv Strngth Trng/Cond	4
HHP 364 Nutrition; or NUTR 221 Basic Human Nutrition	NUTR 411 Nutr/Sports & Exercise	4
Select 1 from the following:		4
HHP 410 Athletic Training II (4)	AHAT 330 Adv Tech/Sprts Med (4)	
HHP 350 Coach: Pedag/Admin/Ethics (4)	COA 305 Coach: Pedag/Admin/ Ethics (4)	

Internship

Internship Credits **10**

Complete 10 credits from the following:		10
HHP 400 Coop Ed/Internship (10)	KIN 498 Intern/Coop Ed (10)	
HHP 498 Sr Proj/Thesis (10)	KIN 499 Sr Thesis/Capstone (10)	

Electives

Elective Credits **10-11**

Select from any catalog courses	10-11
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TOTAL CREDITS REQUIRED **120**

For students wishing to teach, see BS: Physical Education & Health K-12 (page 132).

Bachelor of Science: Mathematics

Program Mission Statement

The mission of the Department of Mathematics is to prepare students for professional work or postgraduate study in mathematics or mathematics education by both developing their competencies with core mathematical concepts and providing them with the experience of engaging in mathematical research.

Graduate Outcomes

Successful program graduates will be able to do a selection of the following:

- Display an understanding of basic concepts in the diverse fields of either pure or applied mathematics.
- Acquire practical experience with research techniques and methods in the mathematical sciences by mastering basic analytical, logical, and/or computational techniques commonly used in asking and answering mathematical questions.
- Demonstrate ability to read and understand primary scientific literature in their discipline.
- Exhibit ability to write a basic, scientific paper.
- Demonstrate a broad knowledge of the general variety of mathematical fields that are pursued by mathematicians and, at the same time, acquire a focused understanding of at least one specific area of pure or applied mathematics.
- Demonstrate mastery of oral communication for effective interaction with colleagues and the community.
- Demonstrate ability to conduct research, both independently and as a team.

Assessment

The graduate outcomes for the BS: Mathematics degree are assessed at various stages of the students' development within the program. In general, this means that the students' research and scientific communication skills will be assessed both near the beginning and end of their academic careers. In addition, all students pursuing a BS: Mathematics degree are assessed in their mastery of computational skills drawing from algebra, trigonometry, and calculus midway through their academic career (typically during their Calculus II course). The details of these assessment activities may be found in the program assessment plan, which may be obtained from the Department of Mathematics.

BS: Mathematics

Note: In order to receive credit toward a BS: Mathematics Major, students must earn a B- or higher in STAT 121 Probability and all courses listed in the Major Core.

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
MATH 131 Probability	STAT 121 Probability	4

General Education Credits **31-32**

Major Core

MATH 201 Calculus I	M 171 Calculus I	4
MATH 202 Calculus II	M 172 Calculus II	4
MATH 210 Computer Math	M 210 Intro/Math Sftwr	4
MATH 260 Linear Algebra	M 221 Intro/Linear Algebra	4
MATH 203 Calculus III	M 273 Multivariable Calculus	4
MATH 311 Ord Diff Equations	M 274 Intro/Diff Equations	4
MATH 341 College Geometry	M 329 Modern Geometry	4
MATH 343 Foundations of Math	M 343 Foundations of Math	4
Select 1 from the following:		4
MATH 232 Statistics (4)	STAT 217 Intrmed Stat Cncpts (4)	
MATH/BIO 233 Biostatistics (4)	STAT 233 Biostatistics (4)	
MATH 333 Mathematical Stats (4)	STAT 422 Mathematical Stats (4)	
Select 3 of the following courses: (at least one must be MATH 401/M 414 or MATH 433/STAT 433)		12
MATH 401 Deterministic Modeling (4)	M 414 Deterministic Models (4)	
MATH 441 Adv Calculus (4)	M 435 Adv Calculus I (4)	
MATH 442 Complex Variables (4)	M 472 Intro/Complex Analysis (4)	
MATH 443 Abstract Algebra (4)	M 431 Abstract Algebra (4)	
MATH 444 Adv Number Theory (4)	M 444 Adv Number Theory (4)	
See course @ right	M 494 Sem/Wkshop (4)	
MATH 498 Senior Thesis (4)	M 499 Sr Project/Thesis (4)	
MATH 433 Stochastic Modeling (4)	STAT 433 Stochastic Modeling (4)	

Core Credits **48**

Options/Electives

- In addition to completing the core mathematics courses, BS: Mathematics students have three paths available to them:
- Elect to complete one of the three Option Areas available; any remaining credits required to achieve 120 credits may be filled with any college-level catalog course.
 - Mathematical Biology (28)
 - Mathematical Ecology (28)
 - Mathematical Geology (28)
 - Elect to double major with Secondary Education (page 101/129).
 - Elect to use all remaining credits to either construct their own course of study in the mathematical sciences or to pursue other interests.

Option Credits **28**

Elective Credits **12-13**

TOTAL CREDITS REQUIRED **120**

**For Mathematics teaching licensure,
see BS: Mathematics & Secondary Education Double Major (page 101/129)**

BS: Mathematics

Option Areas

Mathematical Biology Option

General Education

UMW Pre-CCN Course	CCN Equivalent Course	
BIO 111 Biology I	BIOB 160 Prin/Living Systems	4
CHEM 131 Intro/Chemistry	CHMY 141 College Chem I	4

BIO 255 Cell Biology	BIOB 260 Cell/Molec Biol	4
BIO 343 Genetics	BIOB 375 Gen Genetics	4
BIO 450 Evolution	BIOB 420 Evolution	4
CHEM 132 Gen Chem II	CHMY 143 College Chem II	4
CHEM 331 Organic Chem	CHMY 321 Organic Chem I	4
Select 2 from the following:		8
BIO 425 Molecular Biol (4)	BIOB 425 Adv Cell/Molec Biol (4)	
BIO 262 Microbiology (4)	BIOM 260 Gen Microbiol (4)	
CHEM 441 Biochemistry ¹	See course @ left	
CHEM 332 Organic Chem (4)	CHMY 323 Organic Chem II (4)	
BIO/MATH 331 Bioinformtcs (4)	STAT 331 Bioinformtcs (4)	

Total Credits

28

¹ Prereq: CHEM 332/CHMY 323

Mathematical Ecology Option

General Education

BIO 111 Biology I	BIOB 160 Prin/Living Systems	4
CHEM 131 Intro/Chemistry	CHMY 141 College Chem I	4

BIO 112 Biology II	BIOB 170 Prin/Biol Diversity	4
BIO 255 Cell Biology	BIOB 260 Cell/Molec Biol	4
BIO 343 Genetics	BIOB 375 Gen Genetics	4
BIO 450 Evolution	BIOB 420 Evolution	4
BIO 477 Ecology	BIOE 370 Gen Ecology	4
BIO/MATH 332 Adv Fld Stats	STAT 335 Adv Field Stats	4
Select 1 from the following:		4
BIO 222 Invasive Species (4)	BIOE 222 Invasive Species (4)	
See course @ right	BIOE 250 Conservation Biol (4)	
See course @ right	BIOE 425 Wetlands Ecology (4)	
See course @ right	BIOM 427 Gen Parasitology (4)	
BIO 273 Entomology	BIOO 262 Intro/Entomology (4)	
BIO 355 Systematic Botany (4)	BIOO 435 Plant Systematics (4)	
BIO 479 Vertebrate Zool (4)	BIOO 450 Vertebrate Zool (4)	
BIO 473 Ornithology (4)	BIOO 470 Ornithology (4)	
BIO 475 Mammalogy (4)	BIOO 475 Mammalogy (4)	
BIO 471 Wldlf Ecol/Mgt (4)	WILD 471 Wildlife Ecol/Mgt (4)	
BIOO 340 Biol/Mgt of Fishes (4)	WILD 473 Fisheries Ecol/Mgt (4)	

Total Credits

28

Mathematical Geology Option

General Education

CHEM 131 Intro/Chemistry	CHMY 141 College Chem I	4
Select 1 from the following:		4
GEOL 101 Intro/Geology (4)	GEO 101 Intro/Physical Geol (4)	
GEOL 150 Enviro Geol (4)	GEO 103 Intro/Enviro Geol (4)	

CHEM 132 Gen Chemistry	CHMY 143 College Chem II	4
GEOL 226 Rocks/Min/Resources	GEO 226 Rocks/Min/Resources	4
GEOL 432 Depositional Envts	GEO 309 Sediment/Stratigraphy	4
GEOL 330 Structure/Tectonics	GEO 315 Structural Geology	4
GEOL 480 Hydrogeology	GEO 421 Hydrology	4
GEOL/CHEM 431 Env Geochem	GEO/CHMY 431 Enviro Geochem	4
Select 1 from the following:		4
ENVS 429 Env Field Studies (4)	ENSC 429 Env Field Studies (4)	
GEOL 378 Surficial Processes (4)	GEO 378 Surficial Processes (4)	

Total Credits

28

BS: Mathematics & Secondary Education Double Major

Note: In order to receive credit toward a BS: Mathematics Major, students must earn a B- or higher in STAT 121 Probability and all courses listed in the Major Core. Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
MATH 131 Probability	STAT 121 Probability	4

General Education Credits

31-32

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

Mathematics Major Core

MATH 201 Calculus I	M 171 Calculus I	4
MATH 202 Calculus II	M 172 Calculus II	4
MATH 210 Computer Math	M 210 Intro/Math Sftwr	4
MATH 260 Linear Algebra	M 221 Intro/Linear Algebra	4
MATH 203 Calculus III	M 273 Multivariable Calculus	4
MATH 311 Ord Diff Equations	M 274 Intro/Diff Equations	4
MATH 341 College Geometry	M 329 Modern Geometry	4
MATH 343 Foundations of Math	M 343 Foundations of Math	4
Select 1 from the following:		4
MATH 232 Statistics (4)	STAT 217 Intrmed Stat Cncpts (4)	
MATH/BIO 233 Biostatistics (4)	STAT 233 Biostatistics (4)	
MATH 333 Mathematical Stats (4)	STAT 422 Mathematical Stats (4)	
Select 3 of the following courses: (at least one must be MATH 401/M 414 or MATH 433/STAT 433)		12
MATH 401 Determin Modeling (4)	M 414 Deterministic Models (4)	
MATH 441 Adv Calculus (4)	M 431 Abstract Algebra (4)	
MATH 443 Abstract Algebra (4)	M 435 Adv Calculus I (4)	
MATH 444 Adv Number Theory (4)	M 444 Adv Number Theory (4)	
MATH 442 Complex Variables (4)	M 472 Intro/Complex Analysis (4)	
See course @ right	M 494 Sem/Wkshop (4)	
MATH 498 Senior Thesis (4)	M 499 Sr Project/Thesis (4)	
MATH 433 Stochastic Modeling (4)	STAT 433 Stochastic Modeling (4)	

Major Credits

48

Professional Education Core (see page 118 for recommended course sequence)

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Ltrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
MATH 341 Meth/Mater/Math or M 341 Meth/Mater/Math	EDU 497M Meth: 5-12 Math	4
Select 1 from the following:		4
HHP 241 Pers/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Professional Ed Core Credits

32

Electives

Select from any catalog courses	4-5
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Elective Credits

4-5

Student Teaching

ED 473 Stu Teaching-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4

Student Teaching Credits

12

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED

128

Bachelor of Science: Natural Horsemanship

Program Mission Statement

The mission of the BS: Natural Horsemanship program is to provide students with an education in equine theory and science combined with the practical skills of natural horsemanship. Horsemanship skills taught in the practical classes are heavily based on the principles of equine behavior along with horse training methods of experts renowned in natural horsemanship and similar disciplines. Academic aspects of the program are designed to increase students' knowledge of the science, care, and management of horses, and to expand their awareness of the equine industry well above that of the average horseperson. The University of Montana Western's experiential approach and broad-based curriculum allows the successful graduate to pursue a wide range of equine-related professions.

In addition to general admission to UMW, students interested in the Natural Horsemanship Program must apply by March 1st for the introductory Natural Horsemanship classes that will start that fall (August). The Natural Horsemanship Admissions Committee evaluates prospective students based on a combination of academic ability, horsemanship experience, natural horsemanship experience (if any), and student desire for participation in the program. Application forms for the program are available from the UMW Admissions Office or via the Natural Horsemanship website: http://my.umwestern.edu/shares/bus_share/bsnathorse.html.

Natural Horsemanship students must provide their own horse. Housing and feed for that horse will be provided by the university in collaboration with the Montana Center for Horsemanship. UMW natural horsemanship instructors will determine the ultimate suitability of the horse; stallions or untrained horses are not acceptable.

Natural Horsemanship program students are assessed a program tuition charge each semester. Montana Western's Natural Horsemanship program is demanding for both the students and their horses. Completion of the program in the allotted time frame demands that the student take a class overload. The UMW Academic Admissions & Standards Committee generally requires that a student taking a class overload maintain a "B" average. Therefore, a goal of academic excellence is a "must" for the interested participant.

To ensure that the Bachelor's degree program graduates only the most outstanding students, a secondary assessment of prospective Bachelor's degree students will be made after the second year or between the Associate of Applied Science and Bachelor's degrees. Students will have to demonstrate a given level of proficiency in horsemanship, theory about natural horsemanship, and knowledge of basic equine science and horse care to advance to the 300-400 level natural horsemanship courses.

For AAS: Natural Horsemanship, see page 58.

Graduate Outcomes

Program graduates will:

- be proficient in methods of horsemanship based on the theories of natural horsemanship and similar disciplines.
- understand the principles of equine behavior and how they relate to horsemanship.
- be knowledgeable and efficient in approaching young horse starting and initial development.
- be well-versed in general knowledge about the equine industry including the common breeds, equine activities and events, and equine-related career options.
- understand the principles of equine nutrition and basic horse care to maximize horse health and performance.
- understand the basic anatomy and physiology of the horse, and be conversant with the common disease and lameness problems seen in horses.
- understand and implement basic preventative herd health programs for horses.
- communicate effectively, both orally and in writing, on equine-related subjects with a wide variety of equine professionals and others in the industry.
- work collegially with others.
- be able to assess and work with a horse in most situations encountered during normal handling and riding activities.
- have sufficient knowledge to assess, identify, and overcome behavioral obstacles that hinder a horse's development.
- possess the knowledge and skills required to assess a horse's basic health status.
- be able to assess a horse's conformation and gait and relate it to that horse's suitability, function, and health.
- be able to recognize and evaluate a variety of horse feeds and pasture situations.
- be conversant about and able to recognize common disease problems in horses.
- understand and evaluate the effectiveness of equine preventative health programs.

Assessment

The graduate outcomes for the BS: Natural Horsemanship are assessed through the graduate/exit survey, employer survey, alumni survey, feedback from internship supervisors, review of collected student-generated exhibits over time, and program self-study and/or reports from external reviews. The assessment plan for the BS: Natural Horsemanship is available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accnatural/>.

BS: Natural Horsemanship

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
CHEM 101 Intro/Chemistry (or CHEM 131 Gen Chem for Science Option)	CHMY 121 Intro/Gen Chem (or CHMY 141 Coll Chem I for Science Option)	4
HIST 101 European Civ I or other History course	HSTR 101 Western Civ I or other HSTA/HSTR course	4
Humanities: Expressive Arts	Humanities/Expressive Arts	4
Humanities: Literary & Artistic Studies	Humanities: Literary & Artistic Studies	4
100-level MATH course or higher (or MATH 131 Probability for Science & Psychology Options)	100-level M course or higher (or STAT 121 Probability for Science & Psychology Options)	4
PSY 100 General Psych	PSYX 100 Intro/Psych	4
ENG 102 Found/Language	WRIT 101 Coll Writing I	4
Select 1 from the following:		4
BIO 101 Intro/Life Sci (4)	BIOB 101 Discover Biol (4)	
BIO 111 Biology I (4)	BIOB 160 Prin/Living Syst (4)	

General Education Credits

32

BS: Natural Horsemanship Core

EQST 155 Intro/NH: Gain Confid/Respect	EQUH 155 Intro/NH: Gain Confid/Respect	3
EQST 252 NH: Bldg/Relationship	EQUH 252 NH: Bldg/Relationship	3
EQST 254 NH: Harmony w/Horse I	EQUH 254 NH: Harmony w/Horse I	3
EQST 255 NH: Harmony w/Horse II	EQUH 255 NH: Harmony w/Horse II	3
EQST 351 NH: Refining/Foundation I	EQUH 351 NH: Refining/Fndtn I	4
EQST 352 NH: Refining/Foundation II	EQUH 352 NH: Refining/Fndtn II	4
EQST 101 Intro/Equine Studies	EQUH 101 Intro/Equine Studies	4
EQST 201 Basic Horse Care/Nutrition	EQUH 201 Basic Horse Care/Nutr	4
EQST 202 Basic Equine Science I	EQUH 202 Equine Sci I	4
EQST 203 Basic Equine Science II	EQUH 203 Equine Sci II	4
EQST 204 Equine Facilities Mgt	EQUH 204 Equine Facil Mgt	4
Select 1 from the following:		4
EQST 453 Young Horse Start/Devel (4)	EQUH 453 Young Horse Start/Dev (4)	
EQST 454 Eqn Behav/Devel/NH (4)	EQUH 454 Equine Behav (4)	

Core Credits

44

BS: Natural Horsemanship Option

Select one Option:	32
Natural Horsemanship: Management (32)	
Natural Horsemanship: Psychology (32)	
Natural Horsemanship: Science (32)	

Option Credits

32

Internship/Thesis

EQST 400 NH Internship	EQUH 498 NH Internship	4
EQST 498 Senior Thesis	EQUH 499 Sr Thesis/Capstone	2

Internship/Thesis Credits

6

Electives

Select from any catalog courses	6
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Elective Credits

6

TOTAL CREDITS REQUIRED

120

BS: Natural Horsemanship

Option Areas

Natural Horsemanship: Management Option

UMW Pre-CCN Course	CCN Equivalent Course	
BUS 241 Financial Accounting	ACTG 201 Prin/Fin Acctng	4
BUS 280 Business Law	BGEN 235 Business Law	4
BUS 201 Sm Bus Develop	BMGT 210 Sm Bus Entrep	4
ECON 250 Prin/Economics	ECNS 203 Prin/Micro/Macro	4
EQST 404 Cntmp Iss/Ethics/Equine Ind	EQUH 404 Cntmp Iss/Ethics/Equine Ind	4
Professional Electives Select 12 credits from the following:		12
BUS 242 Mangrl Actg (3)	ACTG 202 Prin/Mgrl Actg (4)	
BUS 253 Bus Rsrch/Stat Anal (4)	BGEN253 Bus Stats/Rsrch (4)	
BUS 217 Bus/Electr Comm (4)	See course @ left	
COMS 135 Microcmpr Appl (3)	CAPP 131 Basic MS Office (4)	
Any EQST course not taken in Natural Horsemanship Core	Any EQST/EQUH/EQUS course not taken in Natural Horsemanship Core	
Total Credits		32

Natural Horsemanship: Psychology Option

EQST 454 Eqn Behv/Devel/NH	EQUH 454 Equine Behavior	4
PSY 275 Devel Psych	PSYX 230 Developmental Psych	4
PSY 203 Comparative Psych	PSYX 252 Fund/Compar Psych	4
PSY/SOC 452 Soc Psych/Grp Dynmcs	PSYX 360 Social Psych	4
PSY 437 Psych/Personality	PSYX 385 Psych/Personality	4
PSY 438 Abnormal Psych	PSYX 440 Abnorm Psych/Rsrch	4
Psychology Electives Select 8 credits		8
Recommended electives:		
EQST 453 Young Horse Start/Dev (4)	EQUH 453 Young Horse Start/Dev (4)	
ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/Soc Sci (4)	ISSS 122 Qual Rsrch Meth/Soc Sci (4)	
Total Credits		32

Natural Horsemanship: Science Option

BIO 112 Biology II	BIOB 170 Prin/Biol Diversity	4
BIO 255 Cell Biology	BIOB 260 Cell/Molec Biol	4
BIO 343 Genetics	BIOB 375 Gen Genetics	4
CHEM 132 Gen Chem	CHMY 143 Coll Chem II	4
Professional Electives Select 16 credits from the following:		16
Any BIO/BIOB/BIOE/BIOH/BIOM/BIOO/CHEM/CHMY/EQST/EQUH/EQUS/M/MATH/PHYS/PHSX course not taken above		
Total Credits		32

BACHELOR DEGREES IN EDUCATION

Bachelor of Science: Early Childhood Education

Program Mission Statement

Practitioners completing the BS: Early Childhood Education program will be prepared to assume leadership roles as early childhood teachers, parent educators, early childhood program administrators, and early childhood trainers in a variety of settings. General Education courses, early childhood core courses, and early childhood specialty courses combine to provide the student with a background in liberal studies together with extensive early childhood coursework and experiences. The related area allows students to develop an area of specialization within early childhood.

This degree is designed to be accessible to both traditional students and place-bound practitioners who are currently working in the early childhood field. Many General Education courses are offered online by UMW as well as other campuses within the Montana University System. Early childhood core courses are included in Montana Western's AAS: Early Childhood Education degree program and are currently offered in Billings, Bozeman, Butte, Dillon, Great Falls, Hamilton, Havre, Helena, and Missoula. Early childhood specialty courses are offered through online and intensive (weekend, week-long) coursework.

Graduate Outcomes

Program graduates will:

- know and understand young children's characteristics and needs.
- know and understand the multiple influences on development and learning.
- use developmental knowledge to create healthy, respectful, supportive, and challenging learning environments.
- know about and understand family and community characteristics.
- support and empower families and communities through respectful, reciprocal relationships.
- involve families and communities in their children's development and learning.
- understand the goals, benefits, and uses of assessment.
- know about and use observation, documentation, and other appropriate assessment tools and approaches.
- understand and practice responsible assessment.
- know about assessment partnerships with families and other professionals.
- know, understand, and use positive relationships and supportive interactions.
- know and understand the importance, central concepts, inquiry tools, and structures of content areas or academic disciplines.
- use their own knowledge and other resources to design, implement, and evaluate meaningful, challenging curriculum to promote positive outcomes.
- identify and involve themselves with the early childhood field.
- know about and uphold ethical standards and other professional guidelines.
- engage in continuous, collaborative learning to inform practice.
- integrate knowledgeable, reflective, and critical perspectives on early education.
- design and implement meaningful, research-based, content rich experiences and environments in early childhood settings in language and literacy, mathematics, physical development and health, social competence, science, and the creative arts.
- utilize effective, developmental teaching methods that emphasize long-term, in-depth experiences based upon children's needs and interests.
- implement family, staff, program, and individual and group child assessment strategies.
- use knowledge of adult learning theory and teacher development to supervise and mentor adults and to develop effective adult workshops.
- develop a related area in a specific area of emphasis based upon future career interests and goals.
- apply environmental, curricular, and management strategies that will promote school success for students with special needs.
- examine and apply research and theories on children, families, and communities including socioeconomic conditions, family structures, relationships, stressors, supports, home language, cultural values, and ethnicity.

Assessment

The graduate outcomes for the BS: Early Childhood Education are assessed through employer surveys, alumni surveys, review of portfolio artifacts, observations of students in practicum sites, program self-study, and reports from external reviews. The assessment plan for the BS: Early Childhood Education is available on the web at <http://my.umwestern.edu/administration/vcaa/accreditation/accbsece/>.

BS: Early Childhood Education

Students must maintain a 3.00 average in the Early Childhood Core and Specialty courses with no grade lower than a “C-”

General Education (see page 42 for full UMW list)

English courses not taken through UMW must demonstrate an oral and written communication component.

General Education Credits 31-32

Early Childhood Core

UMW Pre-CCN Course	CCN Equivalent Course	
ED 142 Intro/Early Childhd	EDEC 108 Intro/EC Ed	1
ED 143 Intro/Early Childhd Lab	EDEC 109 Intro/EC Ed Lab	1
ED 242 Meet Needs/Families	EDEC 210 Meet Needs/Fam	2
ED 243 Meet Needs/Families Lab	EDEC 211 Meet Needs/Fam Lab	1
ED 144 Creat/Envnt/Learning	EDEC 220 Creat Envnt/Lrng EC	2
ED 145 Creat/Envnt/Learning Lab	EDEC 221 Crt Envnt/Lrng EC Lab	1
ED 240 Positiv Child Discipline	EDEC 230 Positiv Child Guid	2
ED 241 Positiv Child Discipline Lab	EDEC 231 Positiv Child Guid Lab	1
ED 250 Child/Adol Growth/Devel	EDEC 247 Chld/Adol Devel	3
ED 251 Child/Adol Growth/Devel Lab	EDEC 248 Chld/Adol Devel Lab	1
ED 344 Early Childhd Prof	EDEC 265 Ldrshp/Prof/EC Ed	2
ED 345 Early Childhd Prof Lab	EDEC 266 Ldrshp/Prof/ EC Ed Lab	1
ED 320 Early Childhd Curr I	EDEC 281 EC Curr Des/Impl I	2
ED 321 Early Childhd Curr I Lab	EDEC 282 EC Curr Des/Impl I Lab	1
ED 324 Early Childhd Curr II	EDEC 283 EC Curr Des/Impl II	2
ED 325 Early Childhd Curr II Lab	EDEC 284 EC Curr Des/Impl II Lab	1

Early Childhood Core Credits 24

Early Childhood Specialty Courses

ED 341 Exceptional Learner	See course @ left	3
ED 326 Infant/Toddler Dev/Grp Care	EDEC 249 Infnt/Tod Dev/Group Care (4)	4
ED 348 Math/Sci/Early Childhd	EDEC 352 Math/Sci/Early Childhd	3
ED 352 Enhanc Phys Skills/Early Chld	EDEC 353 Foster Mvmt/Young Chldrn	1
ED 424 Early Chld Assess/Outcms	EDEC 405 Assessment in EC	3
ED 422 Family/Comm/Culture, or EDU 442 Fam/Comm/Culture	EDEC 410 Fam/Comm/Culture	3
ED 354 Foster Soc Comp/Early Yrs	EDEC 430 Soc/Emot Devel/Young Chld	3
ED 455 Child Devel Rsrch	EDEC 445 Child Devel Rsrch	3
ED 346 Early Literacy	EDEC 450 Litrcy/Erly Chldhd Clssrm	3
ED 421 Creatvty/Young Child: Explor Reggio Emilia/Proj Approach	EDEC 452 Explor Reggio Emilia & Proj Approach (3)	3
ED 457 Coach/Mentor Adults, or EDU 447 Coach/Mntr Adults	EDEC 460 Mntr/Coach in ECE	3
ED 496 Early Childhood Prac	EDEC 495 EC Adv Practicum	6
Creative Arts Workshops	Creative Arts Workshops	3
Safety, Health, or Nutrition course	Safety, Health, or Nutrition course	3

Specialty Course Credits 44

Related Area

In consultation with advisor, complete courses in a selected specific area of emphasis within early childhood education (e.g., administration, infant-toddler, home visitor, school age care, exceptionality, health, safety & nutrition, technology, culture & diversity, mental health, business, or specific curriculum area such as math, science, social studies, language, etc.)	12
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Related Area Credits 12

Electives

Select 8-9 credits with input from a mentor	8-9
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Elective Credits 8-9

TOTAL CREDITS REQUIRED 120

Bachelor of Science: Elementary Education Secondary Education

Introduction

Vision and Mission

The University of Montana Western Department of Education maintains its position as a premier teacher education program. For over one hundred years, the Education Department has been preparing teachers who are successful in all settings. Montana Western's teacher education program is a nationally-recognized rural education center. As a premier program, the department is noted for producing outstanding teachers in the oldest teacher education program in the state of Montana.

The mission of the Montana Western Department of Education is to prepare effective teachers who are educational leaders for the twenty-first century.

Accreditation

The programs in Elementary and Secondary Education are accredited by the National Council for Accreditation of Teacher Education (NCATE), the Northwest Commission on Colleges and Universities (NWCCU), and the Montana Board of Public Education.

The Teacher Education Program (TEP)

The caring and distinguished faculty provides student-centered learning in a small-class environment. Montana Western students learn to meet the needs of ALL children through university instruction and their work with pre-K-12 teachers in a variety of classrooms across the nation. The faculty is committed to the following:

- Experiential learning
- Leadership development
- Social justice
- Reflective practice
- Teaching through inquiry
- Accountability to student learning

All Elementary and Secondary Education majors must apply for and be accepted into the UMW Teacher Education Program (TEP) as part of their academic preparation. The TEP considers teacher preparation a learning process that includes field observations; close interactions with faculty; proficiency in writing, communication, and professional skills; and development of strong knowledge, skills, and dispositions that meet state and national standards for exemplary teaching. To maintain consistent growth as pre-professionals, it is important that students consult with their faculty advisor prior to applying for TEP and throughout their program of study.

Students participate in a variety of field experiences, including observations in American Indian reservation schools and fieldwork in typical single-grade classrooms and rural schools. Montana Western candidates are uniquely prepared to teach in multi-age classrooms located in rural school settings.

Assessment

The graduate outcomes for the Elementary Education, Secondary Education, and K-12 programs are assessed through three Gateways of the Teacher Education Program (TEP). Detailed information regarding program requirements, policies, and procedures is found in the Teacher Education Program Student Handbook. Due to changing accreditation and licensure requirements, program requirements must change periodically. Students may expect some program and evaluation requirements to change during their time at UMW.

The most current program and TEP requirements may be viewed online at <http://my.umwestern.edu/shares/education/tep.html>.

Students may also purchase the Teacher Education Program Student Handbook at the UMW Bookstore.

Minimum Grade Requirements for Teacher Education Program (TEP)

1. Candidates must maintain an overall 2.70 Grade Point Average (GPA).
2. Candidate must maintain a 2.70 GPA or above in Major and Minor content courses (for Elementary Education, "Major courses" refers to all required General Education and professional content courses), with no grade in required content courses below C-, including courses counted for General Education.
3. For Professional Education requirements (core) courses, candidates must complete courses with no grade below B-.
4. Candidates may re-take required Professional Education courses one time only.

Program and Graduate Outcomes

Program outcomes are evaluated through a graduate/exit survey, employer survey, alumni survey, feedback from field experience supervisors and UMW coordinators, review of collected student-generated exhibits over time, scores on PRAXIS II exams, and program reports prepared for NCATE and the Montana Office of Public Instruction (OPI).

Graduate Outcomes for Effective Teachers

Upon graduation from UMW, the beginning teacher will demonstrate evidence toward completion of the following outcomes related to teaching knowledge, skills, and dispositions. Knowledge is “knowing the content,” “skills” represents the ability to perform using knowledge, and “dispositions” refer to the human qualities inherent to ethical and reflective teaching. These graduate outcomes are evaluated throughout the candidate’s coursework and at three Gateways: Gateway 1—admission to the Teacher Education Program; Gateway 2—admission to student teaching; and Gateway 3—completion of student teaching.

The following are sample indicators used to assess knowledge, skills, and dispositions.

Knowledge

The program graduate:

- understands major concepts, assumptions, debates, processes of inquiry, and ways of knowing that are central to the discipline(s) she/he teaches.
- is aware of expected developmental progressions and ranges of individual variation within each domain (physical, social, emotional, oral, and cognitive).
- understands the principles of effective classroom management.
- understands how students’ learning is influenced by individual experiences, talents, and prior learning, as well as language, culture, family, and community values.
- knows about areas of exceptionality in learning, including learning disabilities, visual and perceptual difficulties, and special physical or mental challenges.
- has developed an understanding and knowledge of diversity and exceptionality in learners, families, cultures, and communities.
- understands learning theory, subject matter, curriculum development, and student development.
- knows how to select, construct, and use assessment strategies and instruments appropriate to the learning outcomes being evaluated and to other diagnostic purposes.
- understands the major areas of research on teaching and of resources available for professional learning.
- understands and implements laws related to students’ rights and teacher responsibilities.

Skills

The program graduate:

- can create interdisciplinary learning experiences that allow students to integrate knowledge, skills, and methods of inquiry from several subject areas.
- engages students in generating knowledge and testing hypotheses according to the methods of inquiry and standards of evidence used in the discipline.
- stimulates student reflection on prior knowledge and links new ideas to already familiar ideas, taking advantage of socially constructed modes of learning.
- makes connections to students’ experiences, providing opportunities for active engagement, manipulation, and testing of ideas and materials.
- encourages students to assume responsibility for learning.
- identifies and designs instruction using multiple strategies appropriate to students’ stage of development, learning styles, multi-intelligences, strengths, and particular learning differences and needs.
- meets individual student needs, including identifying and accessing appropriate services and resources to meet exceptional learning needs.
- uses information about students’ families, cultures, and communities as a basis for connecting instruction to students’ experiences.
- brings multiple perspectives and worldviews to classroom instruction and discussions.
- creates a learning community in which individual differences are respected and valued.
- uses multiple teaching and learning strategies to engage students in experiential, individual, and socially constructed learning opportunities.
- provides leadership in the development of students’ critical thinking, problem-solving, and performance capabilities.
- helps K-12 students assume responsibility for identifying and using learning resources.
- uses a range of strategies including cooperative learning to promote positive relationships, cooperation, and purposeful learning in the classroom.
- models effective nonverbal and verbal communication, including the use of a variety of media communication tools such as audio-visual aids and computers.
- provides leadership by asking questions that effectively stimulate discussion in a variety of ways (e.g., probing for learner understanding, helping students articulate their ideas and thinking processes, promoting risk-taking and problem-solving, facilitating factual recall, encouraging convergent and divergent thinking, and stimulating curiosity).
- engages students in individual and cooperative learning activities that help them develop the motivation to achieve.
- knows how to use knowledge of learning theory, subject matter, curriculum development, and student development in planning instruction to meet curriculum goals.
- takes into account contextual considerations (instructional materials, individual student interests, needs, aptitudes, and community resources) in planning instruction.
- appropriately uses a variety of formal and informal assessment techniques (e.g., observation, portfolios of student work, teacher-made tests, performance assessments, student self-assessments, peer assessment, and standardized tests) to enhance her/his knowledge of learners, evaluate students’ progress and performances, and modify teaching and learning strategies.
- evaluates the effect of class activities and teaching strategies on individuals, groups, and the class as a whole.
- maintains useful records of student work and performance and can communicate student progress knowledgeably and responsibly, based on appropriate indicators, to students, parents, and other colleagues.
- uses information about students and educational research as a basis for reflecting on and improving practice.
- demonstrates leadership by making links with the learners’ other environments on behalf of students, by consulting with parents, counselors, teachers of other classes and activities within the schools, and professionals in other community agencies.
- takes the lead in establishing respectful cooperative relationships with parents, guardians, and families from diverse home and community situations.

Dispositions

The program graduate:

- is disposed to use students’ strengths as a basis for growth, and their errors as an opportunity for learning.
- respects every student as an individual with differing personal, family, cultural backgrounds, worldviews, and as having various talents and interests.
- values the role of students in promoting each other’s learning and recognizes the importance of peer relationships in establishing a climate of learning.
- values ongoing, documented assessment as essential to the instructional process and recognizes that many different assessment strategies are necessary for monitoring and promoting student learning.
- values both long-term and short-term planning.
- believes that plans must always be open to adjustment and revision based on student needs and changing circumstances.

- takes a leadership role in consulting with other adults regarding the education and well-being of her/his students.
- demonstrates leadership qualities through commitment to reflection, assessment, and critical thinking as an ongoing process.
- demonstrates leadership qualities through her/his commitment to engaging in and supporting appropriate professional practices.
- is concerned about all aspects of a child's well-being (cognitive, emotional, social, and physical) and is alert to signs of difficulties.

Field Experiences

Education candidates are expected to complete a series of field experiences to assist in their preparation for a career in education. Time commitments for field experiences vary, depending upon one's field of study and the requirements of the coursework associated with the field experience. Candidates may expect to complete their field experience in a location at least 65 miles from Dillon and should plan on additional financial resources to cover the costs of these experiences.

Experience in Cultural Diversity

All candidates in teacher education must complete a supervised field experience in a setting that serves persons of a culturally different background than that of the candidate. This experience must be completed prior to student teaching as part of *EDU 311*. The field experience in cultural diversity must involve interaction with the students in the diverse setting, thus providing a better understanding of the cultural group in relation to teaching and learning.

Behavioral Expectations

Every candidate who engages in a field experience or student teaching will undergo a state and federal background check and behavioral review by the Director of Field Experiences and faculty. Students who have documented misconduct or background check discrepancies will be required to meet with an appropriate administrator or the Student Review Committee to discuss an appropriate plan of action. Background checks are an additional expense for teacher candidates and may be required multiple times.

First Aid & CPR Requirement

Before student teaching, Elementary and Secondary Education Majors are required to provide proof of certification in Adult, Child, and Infant CPR and First Aid to the Registrar's Office. This requirement may be satisfied by one of the following:

1. The student receiving a passing grade in HHP 231/*ECP 100* has met these minimum requirements; or
2. The student may waive HHP 231/*ECP 100* by submitting proof of current certification in Adult, Child, and Infant CPR and First Aid from a qualified agency such as the American Red Cross or the American Heart Association and a completed waiver form to the Registrar's Office.

Application to Student Teach

Student teaching is the culmination of the undergraduate teacher preparation program. It provides the candidate with classroom practice under the guidance of an experienced teacher in a field setting. Student teaching requires one full semester (usually outside of Dillon) and should be planned accordingly.

The *Application to Student Teach* is an important part of the candidate's journey toward becoming a certified teacher. Teacher candidates planning to student teach must attend a series of student teaching meetings and apply for student teaching one full semester in advance. The application has several general requirements and requires that the candidate be interviewed to demonstrate additional competencies of the effective teaching standards.

Review of the *Application to Student Teach* is conducted by the Director of Field Experiences. Candidates are notified of their placement by the Director of Field Experiences and may not make arrangements on their own with school administrators or supervising teachers.

Student Teaching Fees & Course Registration

Regular semester fees are in effect during the semester of student teaching. Candidates planning to student teach should register for the following courses pertinent to their Major/Minor areas:

<i>EDU 495E Student Teaching: K-8</i>	Kindergarten through Grade 8
<i>EDU 495S Student Teaching: 5-12</i>	Grades 5 through 12
<i>EDU 495A Student Teaching: K-12</i>	Kindergarten through Grade 12

Student teaching assignments comprise 12-16 weeks of student teaching in a program designed with the advice of the Director of Field Experiences.

Non-Standard Student Teaching Assignment

A non-standard student teaching assignment is an assignment that is outside Montana Western's service area. These assignments require special arrangements for supervision with other institutions and qualified individuals. The student teacher must pay any extra expenses associated with arranging a non-standard student teaching assignment. Students placed outside a 250-mile radius of Dillon or placed out-of-state must pay the cost of additional expenses. Students within Montana, but outside the 250-mile radius of Dillon, pay \$1 per mile for every mile beyond a round-trip distance of 500 miles. To qualify for out-of-state or out-of-country placements, students must meet rigorous standards. Students requesting non-standard teaching assignments must meet certain requirements, which can be obtained from the Director of Field Experiences. Applications for international non-standard teaching assignments should be submitted two semesters in advance.

Licensure

Licensure is not automatic with graduation from UMW. Candidates must initiate the process with forms available from the Licensure Officer. Any new regulations or interpretations made since the effective dates of the UMW Catalog will be made known to students in the program.

To teach out-of-state, contact the Licensure Officer for appropriate procedures. Licensure requirements vary among states, but UMW graduates usually find they are initially qualified to teach in states other than Montana.

All candidates seeking licensure under the following circumstances must begin the process by consulting with the Licensure Officer.

Post-Baccalaureate Protocol 1: Teachers Who Wish to Add an Endorsement

This protocol is for teachers applying to the University of Montana Western who already hold a Montana Class 1 or Class 2 license, and who plan to add an additional teaching endorsement.

Consult with both the UMW Licensure Officer and the UMW Post-baccalaureate Program Coordinator (contact information below).

Endorsement: Refers to the content area(s) in which the teacher is qualified to teach (e.g., mathematics, history, special education, elementary education).

Level of endorsement: Refers to the grade levels the teacher is qualified to teach. In Montana, an elementary endorsement includes grades K-8; a secondary endorsement includes grades 5-12; and a few content areas include K-12 endorsement.

For practicing teachers, who already hold a Montana Class 1 or Class 2 license, who wish to add a new content area endorsement, or those wishing to add an additional endorsement level (such as teachers with an elementary endorsement who want to add a secondary endorsement, and vice versa):

- You must complete any additional content coursework or professional education courses required to meet both Montana and UMW requirements for the content area you are seeking.
- You are exempt from the UMW Teacher Education Program admission and exit requirements, but must successfully pass all required courses and an 8-credit internship. Contact the Director of Field Experiences, listed below, to establish the internship. Refer to the latest UMW catalog for course requirements, grade, and GPA requirements for the Major Core, Minor, and Professional Education Core. The UMW Post-baccalaureate Program Coordinator will assist you in determining which courses remain to be taken.
- Teachers with an elementary education endorsement who wish to add an endorsement in a secondary education content area or K-12 education content area must complete an 8-credit supervised teaching internship, typically during your final semester of coursework. The internship must be in an appropriate secondary classroom setting or, in the case of K-12 endorsement, a combination of an elementary and secondary classroom setting.
- Teachers who already have either a secondary or K-12 endorsement, but wish to add an elementary education endorsement, must complete an 8-credit supervised internship in a self-contained K-8 classroom, typically during your final semester of UMW coursework.
- For teachers who already hold an endorsement in a secondary education or K-12 education content area, adding a new secondary or K-12 content area endorsement requires completion of the appropriate content coursework and methods course(s). Some additional professional education courses may also be required. The individual will need to complete the equivalent of either a Major or a Minor in a subject area available at UMW. These individuals are not required to complete an internship or student teaching.
- For teachers who wish to complete a UMW bachelor's degree, along with the added endorsement, any waiver of credits must be approved by the UMW Department of Education. The individual must meet all required course, GPA, and admissions and exit requirements for completion of the UMW degree, but are exempt from the TEP Gateway process. Depending on Montana licensure requirements, you may be required to obtain passing scores on the applicable PRAXIS II exam. To be eligible for a UMW degree, UMW maintains a 15-credit residency requirement for the Major Core, and a 10-credit residency requirement for the Minor. "Residency" means that students wishing to obtain a UMW bachelor's degree must complete these credits from the University of Montana Western. Refer to the UMW catalog for additional academic residency requirements (additional residency requirements are typically met by the professional education course requirements).

Internship applications: Contact the UMW Director of Field Experiences, listed below, if you plan to apply for an Internship through the Montana Office of Public Instruction. The UMW Director will assist you in applying for the internship, which has a three-year time limit. This is a separate internship process from the 8-credit internship class you may have to sign up for during your UMW endorsement program.

Endorsement applications: All candidates are responsible for submitting to the UMW Licensure Officer materials required for the application for the added endorsement. Contact the UMW Licensure Officer and refer to the Montana OPI website to obtain a list of required materials and forms.

Contact Information:

UMW Licensure Officer & Director of Field Experiences:

Mr. Mike Miller
University of Montana Western, 710 S Atlantic, Dillon MT 59725
Office: Main Hall 221
Phone: 406-683-7636; email: m_miller@umwestern.edu

Post-baccalaureate Program Coordinator:

Ms. Denise Holland
University of Montana Western, 710 S Atlantic, Dillon MT 59725
Office: Business & Technology Building 212
Phone: 406-683-7203; Email: d_holland@umwestern.edu (from May-August, contact Denise via email rather than phone)

Post-Baccalaureate Protocol 2: Licensure Programs for students who do not already have a Montana Class 1 or Class 2 teaching license

This protocol is for students applying to the University of Montana Western who already hold a bachelor's degree, and who plan to earn an initial teaching license.

1. For students seeking initial licensure who do not wish to obtain a UMW education bachelor's degree:

Consult with the UMW Post-baccalaureate Program Coordinator (contact information below).

Candidates with bachelor's or master's degrees (non-education) with a major, or the equivalent of a major, in a subject area commonly taught in Montana, for which UMW has a licensure program, may enroll in a program leading to educator licensure. The previous degree must be from an accredited college.

To be eligible for educator licensure, candidates must:

- Complete the Major Core course requirements (and, if applicable, courses for the Minor) listed in the UMW catalog, with a 2.65 GPA and no grade lower than C-.

- Complete the Secondary Education, K-12 Education, or Elementary Education Professional Education course requirements with no grade lower than B-.
- Complete the admissions and exit requirements for the UMW Teacher Education Program, including successful review at Gateways 1, 2, and 3, and either Student Teaching or Internship (see expedited TEP admissions process below). Refer to the latest UMW TEP Student Handbook for details.

2. ***For students seeking initial licensure who do wish to obtain a UMW education bachelor's degree:***

Candidates must:

- Complete all UMW degree requirements (the UMW Advising Center will verify which previous courses may be applied to the UMW degree).
- Complete the Major Core and Minor content course requirements with a grade no lower than C- and a GPA of at least 2.70 for each content area.
- Complete the Professional Education course requirements with no grade lower than B-.
- Complete the admissions and exit requirements for the UMW Teacher Education Program, including successful review at Gateways 1, 2, and 3, and either student teaching or internship (see expedited TEP admissions process below). Refer to the latest UMW TEP Student Handbook for details.

To be eligible for a UMW degree, UMW maintains a 15-credit residency requirement for the Major Core, and a 10-credit residency requirement for the Minor. "Residency" means that students wishing to obtain a UMW bachelor's degree must complete these credits from the University of Montana Western. Refer to the UMW catalog for additional academic residency requirements (additional residency requirements are typically met by the professional education course requirements).

3. ***Expedited TEP admissions process:***

For students who hold a bachelor's degree from an accredited college, and do not already have a Montana Class 1 or Class 2 teaching license:

Individuals seeking a Montana teaching license, and who hold at least a bachelor's degree in an endorsable subject area, are eligible for expedited admission to the UMW Teacher Education Program (TEP). Upon completion of these requirements, you will pass through TEP Gateway 1.

Candidates must meet the following conditions, in addition to those listed above:

- Contact the UMW Post-baccalaureate Program Coordinator.
- Apply for admission to the University of Montana Western.
- As part of the UMW admissions process, provide official transcripts of all previous coursework, including transcripts showing degrees completed from an accredited college.
- Register for EDU 201 and EDU 222 during first semester or first year of attending UMW.
- Provide the following, after completion of, or during the semester you will complete *EDU 201* and *EDU 222*:
 - Two acceptable character reference letters from past employers, professors, supervisors, teachers, or other non-family/friend professionals who have been in a position to evaluate the professional skills and dispositions of the candidate.
 - Submit paperwork for a Criminal Background Check. Contact the UMW Director of Field Experiences (contact information below) for appropriate paperwork to apply for the background check, or to request that a recent background check from an employer be sent to the UMW Office of Field Experiences.
 - Service Learning Summary & Reflections: 15 service learning hours are required per semester before passing through TEP Gateway 2. If candidates are currently teaching, this is waived.
 - Complete the UMW Information & Technology Exam or take COMS 115 to assist in passing the exam (only required for students seeking a UMW degree).
 - Contact the UMW Post-baccalaureate Program Coordinator to complete the TEP Expedited Admissions Checklist and to complete a required consultation.
 - Post-baccalaureate students do not have to write the Extemporaneous Essay.

4. ***Student Teaching or Internships:***

Internship applications: Contact the UMW Director of Field Experiences (contact information below) if you plan to apply for an internship through the Montana Office of Public Instruction (OPI). The OPI Internship enables post-baccalaureate students to gain employment in schools before they complete their teacher preparation program. The UMW Director will assist you in applying for the internship, which has a three-year time limit. This is a separate internship process from the internship class you would sign up for (as a substitute for Student Teaching) at the end of your UMW licensure program.

You will establish the internship typically during your first semester at UMW. The internship replaces Student Teaching, thus interns are not expected to attend Student Teaching Meetings or Senior Seminar. Interns typically remain in their internship school placement throughout their licensure program, for a maximum of three years, and must register for an 8-credit supervised internship class, typically during their final semester of UMW coursework.

Student Teaching: Student Teaching (for students who are not in an OPI internship) occurs during the final semester of UMW coursework. Candidates in the Dillon or Butte programs must attend all of a series of UMW Student Teaching meetings during the semester prior to Student Teaching (out-of-state or overseas placements require attending these meetings two semesters prior to Student Teaching). Candidates in internships or at remote locations are not required to attend the face-to-face meetings in Dillon or Butte, but may do so upon their discretion. Candidates at remote locations will obtain instructions for completing paperwork via a Moodle course set up for this purpose. All candidates for Student Teaching must meet all deadlines for submitting paperwork and are responsible for communicating with the UMW Director of Field Experiences regarding Student Teaching or Internship requirements and placements.

Senior Seminar: Post-baccalaureate candidates are not required to attend Senior Seminar (a two-day event held at the end of each UMW semester), but are invited to attend.

Licensure applications: All candidates are responsible for submitting to the UMW Licensure Officer all materials required for the application for a teaching license. Contact the UMW Licensure Officer to obtain a list of required materials and forms.

Contact Information:**UMW Licensure Officer & Director of Field Experiences:**

Mr. Mike Miller

University of Montana Western, 710 S Atlantic, Dillon MT 59725

Office: Main Hall 221

Phone: 406-683-7636; email: m_miller@umwestern.edu

Post-baccalaureate Program Coordinator:

Ms. Denise Holland

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Office: Business & Technology Building 212

Phone: 406-683-7203; Email: d_holland@umwestern.edu (from May-August, contact Denise via email rather than phone)

Bachelor of Science: Elementary Education

The BS: Elementary Education program prepares teachers for positions in grades K-8 in rural, urban, and global classrooms. Through coursework and extensive field experiences in a variety of settings, teacher candidates are able to integrate content knowledge, curriculum, and pedagogy, with emphasis on classroom management and leadership, into effective research-based instructional practices. The Elementary Education program emphasizes integrated experiential learning.

Students majoring in Elementary Education may select the Early Childhood Education Minor (available only with the BS: Elementary Education), or select from Secondary Education-approved Majors or Minors, including the K-12 programs in Art, Computer Science, Drama, Physical Education & Health, Library Media, Literacy, Music, and Special Education. In Montana, most Minors lead to licensure endorsements.

In addition, students pursuing the BS: Elementary Education may select an Option Area to further enhance their background and potentially improve their employability. Option Areas are available in Coaching, Special Education Concentration, and Middle School Options in Instructional Technology, Mathematics, Earth Science, Life Science, Physical Science, and Social Studies. Although these Options are not licensure endorsements, they show evidence of additional study in these areas.

Introductory information on the BS: Elementary Education degree is contained on pages 107-112.

A grade of C- or higher is required in all General Education courses and all other degree requirements for non-Professional Education courses.

A grade of B- or higher is required in all required Professional Education courses.

Candidates must maintain at least a 2.70 GPA overall, and a 2.70 GPA for all content courses.

All Elementary Education candidates must purchase the Teacher Education Program Student Handbook at the UMW Bookstore during their first year at Montana Western.

The Teacher Education Program Student Handbook contains policies and procedures necessary from the first year of the program through completion.

As these requirements change periodically, candidates should review the latest Handbook yearly (<http://my.umwestern.edu/shares/education/tep.html>).

BS: Elementary Education Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and for information regarding program requirements. The Education Department strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one teaching minor or additional major) to increase their hiring options. Also, consider adding the Early Childhood Education Minor (page 115), a Middle School Option (pages 116-117), or the Coaching Option or Special Education Concentration (page 137).

General Education Requirements [Grade of C- or higher required in all courses]		32
UMW Pre-CCN Course	CCN Equivalent Course	
Written & Oral Communications--4 credits		4
ENG 102 Found/Language (4)	WRIT 101 Coll Writing I (4)	
Mathematics--4 credits		4
Any Math course above MATH 007 (4)	Any M (Math) or STAT course 100-level or higher (4)	
Behavioral & Social Sciences--7-8 credits		7-8
Any 100- or 200-level US or Amer Hist course (HIST) (4)	Any 100- or 200-level HSTA course (4)	
Select one:		
POLS 121 Amer Natl/St Govt (4) ECON/GEOG/POLS 201 Wrld Econ (4) See course @ right	ISSS 121 Amer Natl/St Govt (4) ISSS 201 The World Econ (4) ISSS 202 Polit Geog/Rcky Mtn West (4) ISSS 213 Intro/Global Politics (4) GPHY 121 Human Geog (4) GPHY 246 Geog/No Amer (4)	
Humanities: Expressive Arts--4 credits		4
Select one:		
ART 101 Fund/Art (4) MUS 101 Mus Fund/Piano (2) DR 101 Drama Fund (2)	ARTZ 100 Beg Art (4) MUSI 103 Fund/Mus Creat (4) THTR 101 Intro/Theatre (4)	
Humanities: Literary & Artistic Studies--4 credits		4
Select one:		
FA 101 Intro/Vis/Perf Arts (4) ART 212 Art Hist II (4) See course @ right ENG 112 Perf Literary Texts (4) MUS 143 Hist of Rock & Roll (4) MUS 202 Intro/Music Lit (4) PHIL 100 Intro/Philos (4) PHIL/ENVS 201 Hist/Phil/Sci (4)	ARTH 160 Global Vis Cltr (4) ARTH 201 Art/Wrld Civ II (4) Any 100- or 200-level LIT (4) COMX 217 Oral Interp/Lit (4) See course @ left MUSI 202 Intro/Music Lit (4) PHL 101 Intro/Phil: Rsn/Rlty (4) PHL 241 Hist/Phil/Sci (4)	
Natural Sciences--8 credits		8
Select two:		
BIO 101 Intro/Life Sci (4) GEOL 101 Intro/Geology (4) Or one of either: CHEM 101 Intro/Chem (4) or PHYS 101 Intro/Physics (4)	BIOB 101 Discover Biol (4) GEO 101 Intr/Phys Geol (4) Or one of either: CHMY 121 Intr/Gen Chm (4) or PHSX 103 Our Physcl Wrld (4)	
Information & Technology Exam Requirement: Pass exams or take COMS 115 to enable to pass exams.		
Major Requirements <i>Grade of C- or higher required in all courses</i>		93
Professional Content--10-12 credits Choose 2-4 credits from:		2-4
FA 101 Intro/Vis/Perf Arts (4) DR 101 Drama Fund (2) HHP 205 Dance Rthm Meth/Tech I (1) and HHP 206 Dance Rthm Meth/Tech II (1) MUS 101 Mus Fund/Piano (2) ART 101 Fund/Art (4)	ARTH 160 Global Vis Cltr (4) ARTZ 100 Beg Art (4) DANC 285 Dance Rthm Meth/ Tech I (1) and DANC 286 Dance Rthm Meth/Tech II (1) MUSI 103 Fund/Mus Creat (4) THTR 101 Intro/Theatre (4)	
Natural Science courses not chosen for General Education:		4
BIO 101 Intro/Life Sci (4) GEOL 101 Intro/Geology (4) Or one of either: CHEM 101 Intro/Chem (4) PHYS 101 Intro/Physics (4) HHP 241 Pers/Comm Hlth	BIOB 101 Discover Biol (4) GEO 101 Intro/Phys Geol (4) Or one of either: CHMY 121 Intr/Gen Chem (4) PHSX 103 Our Physcl Wrld (4) HEE 340 Meth/Hlth Ed	

Freshman & Sophomore Professional Education Courses--16 credits [Grade of B- or higher required in all courses]			
UMW Pre-CCN Course		CCN Equivalent Course	
ED 120 Becom/Prof Educator		EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psychol Found/Teach/Learn		EDU 222 Ed Psy/Child Dev	4
2,6	ED 270 Lit/Lang/Texts	EDU 233 Lit/Lang/Texts	4
1,4,5,7	See course @ right	EDU 234 Read/Writ Conn/All Lrners K-8	4
Sophomore Professional Education Courses: 12 credits			
1,3,4,5,6,8	ED 328 Curric/Instr/Assess/Mgt ED 329 Curric/Instr/Assess/Mgt Prac	EDU 382 Assess/Curr/Instr	4
3,5 or online	HHP 374 Elem Sch HPE (& Pract); or EDU 397H Meth:K-8 Hlth Ed	HEE 302 Meth/Instr Strat in Elem PE	4
3,7	See course @ right	EDU 391F Child/Yng Adult Lit	4
Junior Year Semester A--17 credits			
1,3,5,7	See course @ right	EDU 385 Math/K-8 Schools w/Pedagogy I	4
	See course @ right	EDU 386 Math/K-8 Schools w/Pedagogy II	4
2,6	See course @ right	EDU 397L Meth: Lang Arts/Soc Studies/All Lrners K-8	4
4,8	ED 381 Intro/Ltrcy/Assess/Instr ED 382 Intro/Ltrcy/Assess/Instr Prac	EDU 438 Ltrcy Assess/Diag/Inst	4
2-block stringer	HHP 231 1st Aid/Safety	ECP 100 1st Aid/CPR	1
Junior Year Semester B Professional Sequence Part 1--16 credits			
1,5	ED 234 Technol/Elem Tchrs	EDU 370 Integr Technol/Ed	4
2,6	ED 376 Arts Meth/Elem Tchrs ED 379 Music/Elem Tchrs	EDU 397A Meth: Integr Arts/ All Lrners K-8 (4)	4
3,7	See course @ right	EDU 397S Meth/Sci/Math Inq/All Lrners K-8	4
4,8, or stringer	See course @ right	EDU 306 School Law/Advoc/All K-12 Lrners (may be taken anytime after admission to TEP)	4
Senior Year Semester A Professional Sequence Part 2--12 credits			
1,5	See course @ right	EDU 391B Clssrm Mgt/El Sch	4
2,6	EDU 391H Fld Exper K-8	EDU 352 Field Exper K-8	4
1,3,5,7	ED 425 Multictrl/Global Educ ED 426 Multictrl/Global Ed Prac	EDU 311 Cultr/Divers/Ethics in Global Ed	4
Senior Year Semester B Student Teaching--12 credits			
	ED 472 Stu Tchg-Elem	EDU 495K Stu Tchg: K-8	8-12
Electives			3
Total Credits Required			128

BS: Elementary Education

Early Childhood Education Minor

The Early Childhood Education Minor gives specialized preparation in implementing developmentally appropriate practices including multi-age groupings, individualization, a learning center approach, anti-bias curriculum, integrated project-based learning, pro-social guidance techniques, inclusion of children with special needs, and viewing parents as partners. It is designed for students planning to teach children from birth through age eight. When combined with a B.S. in Elementary Education, the student is eligible to apply for a Permissive Special Competency (PSC) that is an “add on” to an elementary teaching certificate. This Minor is available with any Bachelor’s degree.

Early Childhood Education Minor

UMW Pre-CCN Course	CCN Equivalent Course	
ED 142 Intro/Early Chldhd ¹	EDEC 108 Intro/EC Ed	1
ED 143 Intro/Early Chldhd Lab ¹	EDEC 109 Intro/EC Ed Lab	1
ED 242 Meet Needs/Family ¹	EDEC 210 Meet Needs/Family	2
ED 243 Meet Needs/Family Lab ¹	EDEC 211 Meet Needs/Family Lab	1
ED 144 Creat Envt/Learning ¹	EDEC 220 Creat Envt/Lrng EC	2
ED 145 Creat Envt/Learning Lab ¹	EDEC 221 Crt Envt/Lrng EC Lab	1
ED 240 Positv Child Discip ¹	EDEC 230 Positv Child Guid	2
ED 241 Positv Child Discip Lab ¹	EDEC 231 Positv Child Guid Lab	1
ED 250 Chld/Adoles Grwth/Dev ¹	EDEC 247 Chld/Adol Growth/Devel	3
ED 251 Chld/AdolesGrwth/Dev Lab ¹	EDEC 248 Chld/Adol Growth/Devel Lab	1
ED 344 Early Chldhd Profess	EDEC 265 Ldrshp/Prof in EC Ed	2
ED 345 Early Chldhd Profess Lab	EDEC 266 Ldrshp/Prof in EC Ed Lab	1
ED 320 Early Chldhd Curric I ¹	EDEC 281 EC Curr Des/Impl I	2
ED 321 Early Chldhd Curric I Lab ¹	EDEC 282 EC Curr Des/Impl I Lab	1
ED 324 Early Chldhd Curric II ¹	EDEC 283 EC Curr Des/Impl II	2
ED 325 Early Chldhd Curric II Lab ¹	EDEC 284 EC Curr Des/Impl II Lab	1
ED 341 Exceptional Learner	See course @ left	2

Total Credits

26

¹ Students must maintain a 3.0 average in these ECE core courses with no grade lower than “C-”.

BS: Elementary Education Middle School Option Areas

Many Elementary Education graduates teach in upper elementary (grades 4-8) or middle school (grades 7-8). The following Option Areas provide candidates with a greater depth of knowledge than can be attained within a broadfield Elementary Education Major alone. To increase their hiring options, the Education Department strongly recommends that all Elementary Education majors complete either an additional Major or a Minor which leads to licensure in Montana (pages 133-136), the Early Childhood Education Minor (page 115), or one of the Middle School Option Areas listed below. These Option Areas do not lead to licensure, and must be taken in conjunction with the Elementary Education Major.

Instructional Technology Middle School Option

An "Instructional Technology Middle School Option" transcript notation is available only with the BS: Elementary Education degree. The list of courses are in addition to those required for the BS: Elementary Education degree.

Elementary Education graduates with this option will not only be prepared to integrate technology effectively into their own curriculum and instruction, but will also be able to help others more effectively integrate technology to enhance learning and teaching in K-8 classrooms.

Students should refer to the Computer Science K-12 Minor if they wish to pursue a teaching license in Computer Science.

UMW Pre-CCN Course	CCN Equivalent Course	
COMS 115 Cmp Bscs/Eductrs	See course @ left	4
COMS 210 Comp Hrdwr/Sft Mgt	ITS 205 Comp Hrdwr/Sftwr Mgt	4
COMS 234 Multimedia	CAPP 160 Mltimed:MSPub/PP	2
COMS 240 Robotics in Ed	See course @ left	1
COMS 334 Adv Multimedia	See course @ left	2
COMS 387 Telecomm	ITS 360 Bus Telecomm/Netwrkg	3
COMS Electives	COMS/CAPP Electives	3
Total Credits		19

Mathematics Middle School Option

A "Mathematics Option" transcript notation is available only with the BS: Elementary Education degree.

These courses are in addition to the mathematics courses required for the BS: Elementary Education degree. Work with a Mathematics Department faculty advisor to ensure courses are taken in the correct sequence and have all the correct prerequisites.

Students should refer to the Mathematics Major or Minor if they wish to pursue a Secondary Education teaching license in Mathematics.

MATH 112 Trig/Cmplx Nmbrs	M 112 Trig/Cmplx Nmbrs	4
MATH 131 Probability	STAT 121 Probability	4
MATH 201 Calculus I	M 171 Calculus I	4
Select 1 from the following:		4
MATH 232 Statistics (4)	STAT 217 Int Statistcl Cncpts (4)	
MATH/BIO 233 Biostats (4)	STAT 233 Biostats (4)	
MATH 333 Math Stats (4)	STAT 422 Math Stats (4)	
Select 2 electives from the following: (see course descriptions for applicable prerequisites)		7-8
COMS 111 Program Fund (3)	CSCI 110 Prog/Vis Basic I (3)	
MATH 202 Calculus II (4)	M 172 Calculus II (4)	
MATH 210 Computer Math (4)	M 210 Intro/Math Sftwr (4)	
MATH 260 Linear Algebra (4)	M 221 Intro/Linear Algebra (4)	
MATH/BIO 311 Ord Diff Equat (4)	M 274 Intro/Diff Equations (4)	
MATH 332 Adv Field Stats (4)	STAT 335 Adv Field Stats (4)	
MATH 341 College Geom (4)	M 329 Modern Geometry (4)	
MATH 343 Found/Math (4)	M 343 Found/Math (4)	
MATH 401 Determ Modlng (4)	M 414 Determ Models (4)	
MATH 433 Stochast Modlng (4)	STAT 433 Stochast Modlng (4)	
Total Credits		23-24

Earth Science Middle School Option

A "Middle School Option" transcript notation is available only with the BS: Elementary Education degree. Candidates pursuing a Science Middle School Option may substitute the Option Area for the 12 credits of science courses required for the BS: Elementary Education degree.

Students should refer to the Earth Science Major or Minor or the General Science Broadfield Major if they wish to pursue a Secondary Education teaching license in Earth Science or General Science.

Select 1 from the following:		4
BIO 101 Intro/Life Sci (4)	BIOB 101 Discover Biol (4)	
BIO 111 Biology I (4)	BIOB 160 Prin/Living Syst (4)	
BIO 112 Biology II (4)	BIOB 170 Prin/Biol Diversity (4)	
Select 1 from the following:		4
CHEM 101 Intro to Chem (4)	CHMY 121 Intro/Gen Chem (4)	
CHEM 131 Gen Chem (4)	CHMY 141 College Chem I (4)	
Select 1 from the following:		4
GEOL 101 Intro to Geol (4)	GEO 101 Intro/Phys Geol (4)	
GEOL 150 Envntl Geol (4)	GEO 103 Intro/Envntl Geol (4)	
Select 1 from the following:		4
GEOL 226 Rocks/Min/Res (4)	GEO 226 Rocks/Min/Res (4)	
GEOL 230 Geol/Amer West (4)	GEO 230 Geol/Amer West (4)	
Select 1 from the following:		4
GEOL 330 Struc/Tectonics (4)	GEO 315 Struct Geol (4)	
GEOL 378 Surf Processes (4)	GEO 378 Surf Processes (4)	
GEOL 432 Depos Envtls (4)	GEO 309 Sedim/Strat (4)	
Select 1 from the following:		4
PHYS 101 Intro/Physics (4)	PHSX 103 Our Physical Wrld (4)	
PHYS 239 Phys Meteorol (4)	PHSX 249 Phys Meteorol (4)	
PHYS 240 Astronomy (4)	ASTR 110 Intro/Astronomy (4)	
Total Credits		24*

(*includes the 12 credits required for the Elementary Ed degree)

BS: Elementary Education Middle School Option Areas

Life Science Middle School Option

A "Middle School Option" transcript notation is available only with the BS: Elementary Education degree. Candidates pursuing a Science Middle School Option may substitute the Option Area for the 12 credits of science courses required for the BS: Elementary Education degree.

Students should refer to the Biology Major or Minor or the General Science Broadfield Major if they wish to pursue a Secondary Education teaching license in Biology or General Science.

UMW Pre-CCN Course	CCN Equivalent Course	
BIO 111 Biology I	BIOB 160 Prin/Living Syst	4
BIO 112 Biology II	BIOB 170 Prin/Biol Diversity	4
Select 1 from the following:		4
BIO 214 Gen Botany (4)	BIOO 220 Gen Botany (4)	
BIO 153 Surv/MT Wild/Hab (4)	BIOO 101 Surv/MTWildf/Hab (4)	
BIO 222 Invasive Species (4)	BIOE 222 Invasv Species (4)	
BIO 255 Cell Biology (4)	BIOB 260 Cell/Molec Biol (4)	
BIO 270 Conserv Biol (4)	BIOE 250 Conserv Biol (4)	
BIO 273 Entomology (4)	BIOO 262 Intro/Entomol (4)	
Select 1 from the following:		4
BIO 262 Microbiology (4)	BIOO 260 Gen Microbiol (4)	
BIO 343 Genetics (4)	BIOB 375 Gen Genetics (4)	
BIO 355 Systemat Botany (4)	BIOO 435 Plant Systemtics (4)	
BIO 371 Hum Anat/Physiol (4)	BIOH 365 Hum AP I/Hlth Prf (4)	
BIO 450 Evolution (4)	BIOB 420 Evolution (4)	
BIO 473 Ornithology (4)	BIOO 470 Ornithology (4)	
BIO 475 Mammalogy (4)	BIOO 475 Mammalogy (4)	
BIO 477 Ecology (4)	BIOE 370 Gen Ecology (4)	
BIO 479 Vert Zoology (4)	BIOO 450 Vert Zoology (4)	
Select 1 from the following:		4
CHEM 101 Intro to Chem (4)	CHMY 121 Intr/Gen Chem (4)	
CHEM 131 Gen Chem (4)	CHMY 141 College Chem I (4)	
Select 1 from the following:		4
GEO 101 Intro to Geol (4)	GEO 101 Intro/Phys Geol (4)	
GEO 150 Envtl Geol (4)	GEO 103 Intro/Envtl Geol (4)	
Total Credits		24*

(*includes the 12 credits required for the Elementary Ed degree)

Physical Science Middle School Option

A "Middle School Option" transcript notation is available only with the BS: Elementary Education degree. Candidates pursuing a Science Middle School Option may substitute the Option Area for the 12 credits of science courses required for the BS: Elementary Education degree.

Students should refer to the General Science Broadfield Major if they wish to pursue a Secondary Education teaching license in General Science.

CHEM 131 Intro to Chem	CHMY 141 College Chem I	4
CHEM 132 Gen Chem	CHMY 143 College Chem II	4
PHYS 101 Intro/Physics	PHSX 103 Our Physical World	4
Select 1 from the following:		4
PHYS 239 Phys Meteorol (4)	PHSX 249 Phys Meteorol (4)	
PHYS 240 Astronomy (4)	ASTR 110 Intro/Astronomy (4)	
Select 1 from the following:		4
BIO 101 Intro/Life Sci (4)	BIOB 101 Discover Biol (4)	
BIO 111 Biology I (4)	BIOB 160 Prin/Living Syst (4)	
Select 1 from the following:		4
GEO 101 Intro to Geol (4)	GEO 101 Intro/Phys Geol (4)	
GEO 150 Envtl Geol (4)	GEO 103 Intro/Envtl Geol (4)	
Total Credits		24*

(*includes the 12 credits required for the Elementary Ed degree)

Social Studies Middle School Option

A "Social Studies Option" transcript notation is available only with the BS: Elementary Education degree.

Students should refer to the Interdisciplinary Social Science Majors or the History Minor if they wish to pursue a Secondary Education teaching license in History or Social Science.

ANTH 105 Intro/Citrl Anthro	ANTY 220 Culture & Society	4
HIST 111 Amer Hist/Civil War	HSTA 101 Amer Hist I	4
HIST 112 Amer Hist/Reconstr	HSTA 102 Amer Hist II	4
HIST 371 MT/Amer West	HSTA 355 MT/Amer West	4
POLS 121 Amer Ntl/St Govt	ISSS 121 Amer Ntl/St Govt	4
Select 1 from the following:		4
ECON/GEOG/POLS Wrld Econ (4)	ISSS 201 The World Econ (4)	
GEOG 102 Human Geog (4)	GPHY 121 Human Geog (4)	
GEOG/POLS 202 Reg Geog/No Amer (4)	ISSS 202 Polit Geog/Rocky Mtn West (4)	
Select 1 from the following:		4
HIST 101 Europ Civ I (4)	HSTR 101 West Civ I (4)	
HIST 102 Europ Civ II (4)	HSTR 102 West Civ II (4)	
Select 1 from the following:		4
PSY 100 Gen Psych (4)	PSYX 100 Intro/Psych (4)	
PSY 201 Intro/Cognition (4)	PSYX 280 Fund/Mem/Cog (4)	
SOC 115 Intro/Sociology (4)	SOCI 101 Intro/Sociology (4)	
Select 1 from the following:		4
ANTH/HIST/POLS/PSY/SOC 409 Seminar (4)	ANTY/HSTA/HSTR/PSCI/PSYX/SOCI 494 Sem/Wkshp (4)	
HIST 225 Africa/Mid East (4)	HSTR 260 Africa/Mid East (4)	
HIST 240 Hist/Far East (4)	HSTR 255 Hist/Far East (4)	
HIST 274 World Hist (4)	HSTR 274 World Hist (4)	
POLS 250 Polit Theory (4)	PSCI 250 Intro/Polit Theory (4)	
Total Credits		36*

(*includes the 8 credits required for the Elementary Ed degree)

Bachelor of Science: Secondary Education and K-12 Education

Teacher education candidates in Secondary Education or K-12 Education must complete at least one Major or Broadfield Major in a subject that leads to licensure in Montana. Graduates with a Secondary Education major are prepared to teach grades 5-12. Graduates with a K-12 education major are prepared to teach grades K-12. Refer to pages 107-112 in this catalog, and the UMW Teacher Education Program Student Handbook, updated annually (<http://my.umwestern.edu/shares/education/>), for further details on education program requirements, including grade and GPA requirements and other admission and retention requirements.

It is advantageous to the candidate to have multiple teaching areas (majors or minors), or a broadfield or interdisciplinary major that prepares them to teach multiple subjects, or a K-12 licensure area, especially for those who plan to teach in a rural state such as Montana. In Montana, teachers are licensed to teach in their Minor subject area if they have taken the appropriate methods course, carry out a student teaching experience in the specified area, and receive acceptable scores on the applicable PRAXIS II exams.

A grade of C- or higher is required in all General Education courses and required courses in the content Major or Minor.

A grade of B- or higher is required in all required Professional Education courses.

Candidates must maintain at least a 2.70 GPA overall, and a 2.70 GPA for the content courses for each Major and Minor.

All candidates must pass the UMW Information & Technology Literacy (computer competency) exam prior to admission to the Teacher Education Program. COMS 115 prepares students for this exam.

All candidates must pass a recent federal and state Criminal Background Check prior to admission to the Teacher Education Program. This must be updated every two years.

All candidates must have a recent Certificate of First Aid and Safety (including First Aid, Infant, Child, & Adult CPR, Child & Adult AED), prior to Student Teaching. HHP 231/ECP 100 fulfills this requirement.

<i>Preferred Sequence of Education Courses and TEP Interviews</i>							
Freshman Year		Sophomore Year		Junior Year		Senior Year	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
		EDU 201 Intro to Education EDU 222 Ed Psych & Child Development	HTH 220 Human Sexuality -or- HEE 340 Methods of Health Education	EDU 382 Assessment, Curriculum, & Instruction	EDU 311 Cultures, Diversity & Ethics in Global Education EDU 306 School Law & Advocacy for All K-12 Learners	Methods Courses (now or previous semester) EDU 491D* Educational Management & Discipline for Secondary Education	EDU 495 Student Teaching
			TEP Gateway 1 interview (fall or spring of sophomore year)	EDU 391D* Foundations of Educational Technology for Secondary Education Majors	EDU 481 Content Area Literacy	PRAXIS II exams & TEP Gateway 2 interview – mid-semester, prior to Student Teaching	TEP Gateway 3 presentation

** course number to be determined pending CCN review*

Secondary Education Major – 42-46 credits

Professional Education Core (see page 118 for recommended course sequence)

UMW Pre-CCN Course	CCN Equivalent Course	
ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics/Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
Methods Courses (Varies by program)	Methods Courses (Varies by program)	4-8
Take 1 from the following:		4
HHP 241 Pers/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Professional Education Core Credits 32

Student Teaching

ED 473 Stu Tchg-Secondary	EDU 495S Stu Tchg: 5-12	8
ED 474 St Tchg K-12	EDU 495A Stu Tchg: K-12	
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4

Student Teaching Credits 12

The Secondary Education major is not a stand-alone major. It must be taken in combination with a major in a subject that leads to licensure in the state of Montana.

Any of the following Majors offered at the University of Montana Western may be combined with the Secondary Education major:

- BA: English (page 66/125)
- BA: Interdisciplinary Social Science (page 71/128)
- BA: Modern History (page 73/130)
- BS: Biology (page 84/121)
- BS: Earth Science (page 124)
[Note: Earth Science is not a stand-alone major. It must be taken in conjunction with the Secondary Education major. Students completing the Earth Science program may also wish to consider completing the BS: Environmental Science, Geology Option]
- BS: General Science Broadfield (page 126)
[Note: General Science Broadfield is not a stand-alone major. It must be taken in conjunction with the Secondary Education major]
- BS: Mathematics (page 101/129)

In addition, the following education majors also lead to licensure. These majors include the required Secondary Education or K-12 Education course sequence within the extended major:

- BS: Art Education K-12 (page 120)
- BS: Business & Computer Applications Education (page 122)
- BS: Industrial Technology Education [IT courses at Helena College UM; contact UMW Provost for availability] (page 127)
- BS: Music Education K-12 (page 131)
- BS: Physical Education & Health K-12 (page 132)

BS: Art Education K-12 Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

General Education (see page 42 for full list)

Art courses used for the major may also satisfy Gen Ed Humanities requirements
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General Education Credits 31-32

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

Art K-12 Major Content Core

Major Credits 44

UMW Pre-CCN Course	CCN Equivalent Course	
ART 211 Art History I	ARTH 200 Art/World Civ I	4
ART 212 Art History II	ARTH 201 Art/World Civ II	4
ART 141 Drawing	ARTZ 105 Vis Lang-Drawing	4
ART 140 Color/Design	ARTZ 106 Vis Lang-2-D Found	4
ART 271 Sculpture	ARTZ 108 Vis Lang-3-D Found	4
In consultation with advisor, select two 2-D courses, one 3-D course, and one additional 200-level studio elective course from the following:		16
ART 170 Intro/Photog [2-D] (4)	See course @ left	
ART 267 Painting [2-D] (4)	ARTZ 221 Painting I (4)	
ART 261 Watercolor [2-D] (4)	ARTZ 224 Watercolor I (4)	
ART 231 Ceramics [3-D] (4)	ARTZ 231 Ceramics I (4)	
ART 247 Glass [3-D] (4)	ARTZ 241 Glass I (4)	
ART 277 Fibers [3-D] (4)	ARTZ 267 Fibers Arts I (4)	
ART 243 Printmaking [2-D] (4)	ARTZ 271 Printmaking I (4)	
ART 270 Photography [2-D] (4)	See course @ left	
ART 225 Digital Media [2-D] (4)	MART 226 Intr/Dig Media 2D (4)	
Two 300-level Art courses		8

Professional Education Core (see page 118 for recommended course sequence)

Professional Ed Core Credits 32

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
ART 351 Meth/Materials of Art	ARTZ 403 Tchg Art II—K-12	4
Take 1 from the following:		4
HHP 241 Pers/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Electives

Elective Credits 8-9

Select from any catalog courses	8-9
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Student Teaching

Student Teaching Credits 12

ED 474 Stu Teaching K-12	EDU 495A Stu Tchg: K-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4

²Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED 128

BS: Biology & Secondary Education Double Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or teaching minor) to increase their hiring options. For Biology majors, adding the General Science Broadfield Major is recommended. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137). **Note: This degree page is a duplicate of page 84 of this Catalog.**

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
BIO 111 Biology I	BIOB 160 Prin/Living Syst	4
CHEM 131 Gen Chem	CHMY 141 College Chem I	4
ENVS 201 Hist/Phil/Science	PHL 241 Hist/Phil/Science	4
MATH 131 Probability	STAT 121 Probability	4

General Education Credits **31-32**

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

Biology Major Content Core

BIO 112 Biology II	BIOB 170 Prin/Biol Diversity	4
BIO 255 Cell Biology	BIOB 260 Cell/Molec Biol	4
BIO 343 Genetics	BIOB 375 Gen Genetics	4
BIO 450 Evolution	BIOB 420 Evolution	4
BIO 477 Ecology	BIOE 370 Gen Ecology	4
BIO 214 Gen Botany	BIOO 220 Gen Botany	4
CHEM 132 Gen Chem	CHMY 143 College Chem II	4
CHEM 331 Organic Chem	CHMY 321 Organic Chem I	4
CHEM 332 Organic Chem	CHMY 323 Organic Chem II	4
MATH 201 Calculus I	M 171 Calculus I	4
PHYS 233 Gen Physics	PHSX 220 Physics I	4
PHYS 234 Gen Physics	PHSX 222 Physics II	4
Select 1 from the following:		4
MATH 232 Statistics (4)	STAT 217 Int Statistcl Cncpts (4)	
MATH/BIO 233 Biostatistics (4)	STAT 233 Biostatistics (4)	

Major Credits **52**

Secondary Education majors do not take **BIOB** or **HHP 400/ACT 498**, or **BIOB 494P**.

Additional courses recommended for Secondary Education

BIO 262 Microbiology (4)	BIOM 260 Gen Microbiol (4)
BIO 371 Hum Anat/Physiol (4)	BIOH 365 Hum Anat/Phys I/Hlth Prof (4)
BIO 372 Hum Anat/Physiol (4)	BIOH 370 Hum Anat/Phys II/Hlth Prof (4)

For Biology & Secondary Education Double Major

(courses below substitute for the Biology Option Area and the Biology Internship)

Professional Education Core (see page 118 for recommended course sequence)

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
ED 355 Meth/Mat Exper Sci Ed	EDU 497S Meth: 5-12 Science	4
Select 1 from the following:		4
HHP 241 Pers/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426).		
*CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Professional Ed Core Credits **32**

Electives

Select from any catalog courses	0-1
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Elective Credits **0-1**

Student Teaching

ED 473 Stu Tchg-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4
See course @ right		

Student Teaching Credits **12**

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED 128

BS: Business & Computer Applications Education Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
ECON 250 Prin/Economics	ECNS 203 Prin/Micro/Macro	4

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

General Education Credits

31-32

Business & Computer Applications Major Core

BUS 241 Fin Acctng	ACTG 201 Prin/Fin Acctng	4
BUS 242 Managerial Acctng	ACTG 202 Prin/Mngrl Acctng	4
BUS 280 Business Law	BGEN 235 Business Law	4
BUS 201 Sm Bus Develop	BMGT 210 Sm Bus Entrep	4
BUS 325 Prin/Prac/Management	BMGT 335 Mgt & Org	4
COMS 205 Business Info Systems	BMIS 270 MIS Found/Business	4
BUS 347 Prin/Prac/Marketing	BMKT 325 Prin/Marketing	4
BUS 217 Bus/Elec Comm	See course @ left	4
COMS 135 Microcomp Appl	CAPP 131 Basic MS Office	4
COMS 236 Adv Micromp Appl	CAPP 251 Adv MS Office	4
COMS 212 Intro/Web Design	See course @ left	4
COMS 210 Comp Hrdwr/Sftwr Mgt	ITS 205 Comp Hrdwr/Sftwr Mgt	4
Select 4 credits from the following:		4
BUS 329 Human Resource Mgt (3)	BMGT 329 Hum Rsrc Mgt (4)	
COMS 306 Bus Info Syst Lab (4)	BMIS 306 Bus Info Syst Lab (4)	
BUS 304 Leadership (4)	See course @ left	
COMS 235 Video/Audio Design (4)	See course @ left	
COMS 242 Dig Print Media (4)	See course @ left	
COMS 325 Dig Graph/Anim Design (4)	See course @ left	
COMS 335 Adv Web Design (4)	See course @ left	
COMS 111 Prog Fundamentals (3)	CSCI 110 Prog/Vis Basic I (3)	

Major Credits

52

Professional Education Core (see page 118 for recommended course sequence)

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
BUS 351 Meth/Mat/Bus Theory Subj	See course @ left	2
COMS 351 Meth/Mat/Comp Appl	BMIS 397 Meth/Mat/Comp Appl	2
Select 1 from the following:		4
HHP 241 Personal/Comm Health (4)	HEE 340 Meth/Health Ed (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426).		
*CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Professional Ed Core Credits

32

Student Teaching

ED 473 Stu Teaching-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4

Student Teaching Credits

12

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED

128

Business & Computer Applications Education Advising Protocol for Educator Licensure (for students who already have a Bachelor's Degree in Business and are seeking a teaching license)

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

Required:

1. Bachelor's degree in Business.
2. Must meet the following minimum requirements for entrance into the Teacher Education Program (TEP):
 - a. overall GPA in undergraduate Business degree program, with no grade lower than C- in courses required for the major.
 - b. completion of the TEP application form.
3. Must complete all requirements of TEP, including successful completion of Gateways 1, 2, and 3 of the TEP evaluation process.
4. Must pass a criminal background check prior to being admitted to the field experiences for the professional education classes and prior to student teaching.
5. Contact the Director of Field Experiences for licensure information.

Following is the class layout for those students who already have obtained a BS: Business Administration and would like to get their teaching certification.

Students must complete the required education courses below:

UMW Pre-CCN Course	CCN Equivalent Course	
BUS 351 Methods & Materials in Business Theory Subjects	See course @ left	2
COMS 351 Methods & Materials in Computer Applications	<i>BMIS 397 Methods & Materials in Computer Applications</i>	2
ED 120 Becoming a Professional Educator	<i>EDU 201 Introduction to Education with Field Experience</i>	4
ED 253 Psychological Foundations of Teaching & Learning	<i>EDU 222 Educational Psychology & Child Development</i>	4
See course @ right	<i>EDU 306 School Law & Advocacy for All K-12 Learners</i>	4
ED 425 Multicultural/Global Education (3)	<i>EDU 311 Cultures, Diversity, & Ethics in Global Education (4)</i>	4
ED 426 Multicultural/Global Education Practicum (1)		
ED 328 Curriculum, Instruction, Assessment & Management (3)	<i>EDU 382 Assessment, Curriculum, & Instruction (4)</i>	4
ED 329 Curriculum, Instruction, Assessment & Management Practicum (1)		
ED 445 Methods of Teaching Content Area Literacy	<i>EDU 481 Content Area Literacy</i>	2
See course @ right	<i>EDU 491D* Educational Management & Discipline for Secondary Education</i>	4
ED 473 Student Teaching-Secondary	<i>EDU 495S Student Teaching: 5-12</i>	8
Select 1 from the following:		4
HHP 241 Personal & Community Health (4)	<i>HEE 340 Methods of Health Education (4)</i>	
HHP 245 Human Sexuality (4)	<i>HTH 220 Human Sexuality (4)</i>	

**Common Course Number to be determined*

Students may also be required to take additional computer application courses, depending upon the courses they have previously taken:

COMS 205 Business Information Systems (4)	<i>BMIS 270 MIS Foundations for Business (4)</i>
COMS 135 Microcomputer Applications (4)	<i>CAPP 131 Basic Microsoft Office (4)</i>
COMS 236 Advanced Microcomputer Applications (4)	<i>CAPP 251 Advanced Microsoft Office (4)</i>
COMS 339 Database Management (3)	<i>CAPP 258 Advanced Microsoft Access (3)</i>
COMS 212 Introduction to Web Design (4)	See course @ left
COMS 210 Computer Hardware & Software Management (4)	<i>ITS 205 Computer Hardware & Software Management (4)</i>

For Those Who Already Hold a Teaching License

For individuals who already hold a teaching license in another secondary education content area, adding a new content area endorsement in Business & Computer Applications Education requires completion of appropriate content coursework, including COMS 351/*BMIS 397* and BUS 351. Some professional education courses may be waived. These individuals are not required to complete student teaching (ED 473/*EDU 495S*) or an internship, unless seeking an additional degree. Individuals with an elementary education license must complete a teaching internship in an appropriate secondary classroom (4 credits of supervised internship for at least two semesters).

BS: Earth Science & Secondary Education Double Major

The Earth Science major is not a stand-alone major. It must be taken with the Secondary Education major.

Candidates might wish to consider also completing the BS in Environmental Science, Geology Option (which does not lead to licensure in Montana, but does in some other states—page 92). Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. For science teachers, adding the General Science Broadfield Major is recommended. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
CHEM 131 General Chemistry	CHMY 141 College Chem I	4
ENVS/PHIL 201 Hist/Phil/Science	PHL 241 Hist/Phil/Science	4
MATH 131 Probability	STAT 121 Probability	4
Select 1 from the following:		4
GEOL 101 Intro to Geology (4)	GEO 101 Intro/Phys Geol (4)	
GEOL 150 Env'tl Geology (4)	GEO 103 Intro/Env'tl Geol (4)	

General Education Credits

31-32

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

Earth Science Major Core

PHYS 240 Astronomy	ASTR 110 Intro/Astronomy	4
CHEM 132 Gen Chem	CHMY 143 College Chem II	4
ENVS 348 Soil Science	ENSC 348 Soil Science	4
GEOL 226 Rocks/Min/Res	GEO 226 Rocks/Min/Res	4
GEOL 230 Geol/Amer West	GEO 230 Geol/Amer West	4
GEOL 330 Structure/Tectonics	GEO 315 Structural Geol	4
GEOL 378 Surficial Processes	GEO 378 Surficial Processes	4
GEOL 409 Geology Seminar	GEO 494 Sr Geol Seminar	4
GEOL 432 Depositional Envt's	GEO 309 Sed/Stratigraphy	4
PHYS 239 Phys Meteorol	PHSX 249 Phys Meteorol	4
MATH 232 Statistics	STAT 217 Int Statistcl Cncpts	4

Major Credits

44

Professional Education Core (see page 118 for recommended course sequence)

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
ED 355 Meth/Mat/Exper Sci Educ	EDU 497S Meth: 5-12 Science	4
Select 1 from the following:		4
HHP 241 Pers/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Professional Ed Core Credits

32

Electives

Select from any catalog courses	8-9
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Elective Credits

8-9

Student Teaching

ED 473 Stu Teaching-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lmrs (may be taken during or prior to student teaching)	4

Student Teaching Credits

12

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED

128

BA: English & Secondary Education Double Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching or minor) to increase their hiring options. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137). **Note: This degree page is a duplicate of page 63 of this Catalog.**

General Education (see page 42 for full list)

General Education Credits

31-32

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

English Major

Major Credits

44

UMW Pre-CCN Course	CCN Equivalent Course	
ENG 204 Creative Writ Wkshp	CRWR 240 Intro/Creatv Writ Wkshop	4
ENG 413 Hist/Struc/Natur Lang	LING 413 Hist/Struc/Natur Lang	4
ENG 279 Fund/Lit Theory	LIT 300 Lit Criticism	4
ENG 330 Mythology	LIT 285 Mythologies	4
ENG/DR 455 Shakespeare	LIT 473 Studies/Shakespeare	4
Select 1 from the following:		4
ENG 263 Early Amer Voices (4)	LIT 210 Amer Lit I (4)	
ENG 264 Amer Romance (4)	LIT 264 Amer Romance (4)	
ENG 265 Real/Nat/Modern (4)	LIT 265 Real/Nat/Modern (4)	
ENG 266 Gen/Conflicts (4)	LIT 266 Gen/Conflicts (4)	
ENG 273 Oral Trad (4)	LIT 273 Oral Lit (4)	
ENG 274 Manuscript Trad (4)	LIT 274 Manuscript Trad (4)	
ENG 276 Declining Empire (4)	LIT 276 Declining Empire (4)	
ENG 275 Print Culture (4)	LIT 277 Print Culture (4)	
Select 3 from the following:		12
ENG 320 Lit in Translation (4)	LIT 302 Lit in Translation (4)	
ENG 362 Sem/Women's Lit (4)	LIT 335 Women & Lit (4)	
ENG 339 Literary Regions (4)	LIT 339 Literary Regions (4)	
ENG 361 Poetry & Thought (4)	LIT 361 Poetry & Thought (4)	
Select 2 from the following :		8
ENG/DR 441 Drama Hist/Lit Genre (4)	LIT 441 Drama Hist/Lit Genre (4)	
ENG 479 Sem/Literary Theory (4)	LIT 479 Studies/Lit Theory (4)	
ENG 452 Sem/Literary Period (4)	LIT 494 Sem: Lit Period (4)	
ENG 453 Genre Seminar (4)	LIT 494 Sem: Genre (4)	
ENG 454 Authors Seminar (4)	LIT 494 Sem: Maj Authors (4)	

Additional courses strongly recommended for Secondary Education

See course @ right	EDU 391F Child/Yng Adult Lit (4)	
ENG 280 Visions/America (4)	LIT 218 Visions/America (4)	
DR 241 Play Prod/Intro/Direct (4)	THTR 276 Play Prod/Intro/Direct (4)	
ENG 350 Tech/Profess Comm (4)	WRIT 321 Adv Technical Writing (4)	

Professional Education Core (see page 118 for recommended course sequence)

Professional Ed Core Credits

36

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
Take both courses in same semester:	Take both courses in same semester:	
ENG 352 Meth/Teaching Comp (4)	EDU 497L Meth: Integ Lit/Comp I	4
ENG 353 Meth/Teaching Lit (4)	EDU 497C Meth: Integ Lit/Comp II	4
Select 1 from the following:		4
HHP 241 Personal/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Electives

Elective Credits

4-5

Select from any catalog courses	4-5
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Student Teaching

Student Teaching Credits

12

ED 473 Stu Teaching-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lnrs (may be taken during or prior to student teaching)	4

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED

128

BS: General Science Broadfield & Secondary Education Double Major

The General Science Major is not a stand-alone major. It must be taken with the Secondary Education Major.

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The General Science major prepares candidates to teach in multiple science subjects. Candidates might wish to consider adding a single-subject major or minor. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
BIO 111 Biology I	BIOB 160 Prin/Living Syst	4
MATH 201 Calculus I	M 171 Calculus I	4
ENVS/PHIL 201 Hist/Phil/Science	PHL 241 Hist/Phil/Science	4
Select 1 from the following:		4
GEOL 101 Intro/Geology (4)	GEO 101 Intro/Phys Geol (4)	
GEOL 150 Envntl Geology (4)	GEO 103 Intro/Envntl Geol (4)	

General Education Credits

31-32

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

General Science Broadfield Major Core

PHYS 240 Astronomy	ASTR 110 Intro/Astronomy	4
BIO 255 Cell Biology	BIOB 260 Cell/Molec Biol	4
BIO 343 Genetics	BIOB 375 Gen Genetics	4
BIO 450 Evolution	BIOB 420 Evolution	4
BIO 214 Gen Botany	BIOO 220 Gen Botany	4
CHEM 131 Gen Chem	CHMY 141 College Chem I	4
CHEM 132 Gen Chem	CHMY 143 College Chem II	4
CHEM 331 Organic Chem	CHMY 321 Organic Chem I	4
CHEM 332 Organic Chem	CHMY 323 Organic Chem II	4
GEOL 226 Rocks/Min/Resrcs	GEO 226 Rocks/Min/Resrcs	4
GEOL 432 Depos Envtls	GEO 309 Sed/Stratigraphy	4
PHYS 233 Gen Physics	PHSX 220 Physics I	4
PHYS 234 Gen Physics	PHSX 222 Physics II	4
PHYS 235 Gen Physics III	PHSX 224 Physics III	4

Major Credits

56

Additional course strongly recommended

See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs (2)	
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Professional Education Core (see page 118 for recommended course sequence)

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrlr/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrlr/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
ED 445 Meth/Tchg Cont Area Ltrcy	EDU 481 Content Area Ltrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
ED 355 Meth/Mat/Exper Sci Ed	EDU 497S Meth: 5-12 Science	4
Select 1 from the following:		4
HHP 241 Pers/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426).		
*CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Professional Ed Core Credits

30

Electives

Select from any catalog courses	0-1
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Elective Credits

0-1

Student Teaching

ED 473 Stu Teaching-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4

Student Teaching Credits

12

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED

130

BS: Industrial Technology Education Major

Contact the UMW Provost for availability of this degree.

The IT courses in this program are only available at Helena College UM.
For information, contact Harold Kelly (h_kelly@umhelena.edu; 406-447-6365).

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. A Coaching Option is also available in Dillon, but does not lead to licensure (page 137).

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
CHEM 101 Intro/Chemistry	CHMY 121 Intro/Gen Chem	4
PHYS 101 Intro/Physics	PHSX 103 Our Physical World	4

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

General Education Credits

31-32

Industrial Technology Major Core

IT 350 Struc Analysis/Const Technol	CSTN 120 Carp Basics Rough-In Framing	4
IT 135 Computer-Aided Drafting	DDSN 114 Intro/Comp-Aid Drft	3
IT 120 Power Fundamentals	See course @ left	3
IT 130 Graphic Communication	See course @ left	3
IT 141 Plastics & Composites	See course @ left	2
IT 220 Appl Electric/Electronics	See course @ left	2
IT 240 Woodwrk/Stationary Machines	See course @ left	3
IT 246 Adv Woodwrk/Stat Machines	See course @ left	4
IT 311 Technology Lab Mgt	See course @ left	3
COMS 210 Comp Hrdwr/Sftwr Mgt	ITS 205 Comp Hrdwr/Sftwr Mgt	4
IT 241 Machining	MCH 200 Machining	3
See course @ right	MCH 279 Comp-Aid Manf/Metals	3
See course @ right	WLDG 109 Fund/Welding	3
Required Elective--must be from IT Education or Helena College Trade & Tech rubric		2-4

Major Credits

42-44

Professional Education Core (see page 118 for recommended course sequence)

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
IT 351 Meth/Mat/Indust Technol	See course @ left	4
Select 1 from the following:		4
HHP 241 Pers/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Professional Ed Core Credits

32

Electives

Select from any catalog courses	8-11
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Elective Credits

8-11

Student Teaching

ED 473 Stu Teaching-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4

Student Teaching Credits

12

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED

128

BA: Interdisciplinary Social Science & Secondary Education Double Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The Interdisciplinary Social Science Major enables teachers to teach multiple subjects in secondary schools. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. The Modern History Major is recommended. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137). **Note: This degree page is a duplicate of page 71 of this Catalog.**

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
Highly Recommended:		
PHIL 100 Intro/Philosophy (4)	PHL 101 Intro/Phil: Reason/Reality (4)	
MATH 131 Probability (4)	STAT 121 Probability (4)	

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

General Education Credits

31-32

Interdisciplinary Social Science Major

ISSS & Secondary Education Double Majors must take the following two ISSS Minors (page 75):	48
Global Politics Minor (24) [must include either <i>ISSS 121</i> or <i>ISSS 202</i>]	
History Minor (24) [must include one non-American History course and <i>HSTA 355</i>]	
Select 1 Capstone option from one of the selected Minors (in non-ISSS Minor by Departmental permission only):	4
HPSS rubric 409 Seminar (4)	HPSS rubric 494 Sem/Wkshp (4)
HPSS rubric 400 Coop Ed/Intnshp (4)	HPSS rubric 498 Internship (4)
HPSS rubric 498 Sr Proj/Thesis (4)	HPSS rubric 499 Sr Proj/Thesis (4)
HPSS Department rubrics: ANTH/ANTY/GEOG/GPHY/HIST/HSTA/HSTR/ISSS/PHIL/PHL/ POLS/PSCL/PSY/PSYX/SOC/SOCI	

Major Credits

52

Professional Education Core (see page 118 for recommended course sequence)

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
ED 357 Meth/Mat/Soc Sci	EDU 497H Meth: 5-12 Soc Studies	4
Select 1 from the following:		
HHP 241 Personal/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take <i>ANTY 220</i> (ANTH 105) as an elective prior to enrolling in <i>EDU 311</i> (ED 425/426). *CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Professional Ed Core Credits

32

Electives

Select from any catalog courses	1-2
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Elective Credits

1-2

Student Teaching

ED 473 Stu Tchg-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4

Student Teaching Credits

12

²Students in an internship program (e.g., Class 5 teachers) will substitute *EDU 498 Internship* for *EDU 495*. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED

128

BS: Mathematics & Secondary Education Double Major

Note: In order to receive credit toward a BS: Mathematics Major, students must earn a B- or higher in STAT 121 Probability and all courses listed in the Major Core. Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137). *Note: This degree page is a duplicate of page 101 of this Catalog.*

General Education (see page 42 for full list)

UMW Pre-CCN Course	CCN Equivalent Course	
MATH 131 Probability	STAT 121 Probability	4

General Education Credits

31-32

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

Mathematics Major Core

MATH 201 Calculus I	M 171 Calculus I	4
MATH 202 Calculus II	M 172 Calculus II	4
MATH 210 Computer Math	M 210 Intro/Math Sftwr	4
MATH 260 Linear Algebra	M 221 Intro/Linear Algebra	4
MATH 203 Calculus III	M 273 Multivariable Calculus	4
MATH 311 Ord Diff Equations	M 274 Intro/Diff Equations	4
MATH 341 College Geometry	M 329 Modern Geometry	4
MATH 343 Foundations of Math	M 343 Foundations of Math	4
Select 1 from the following:		4
MATH 232 Statistics (4)	STAT 217 Intrmed Stat Cncpts (4)	
MATH/BIO 233 Biostatistics (4)	STAT 233 Biostatistics (4)	
MATH 333 Mathematical Stats (4)	STAT 422 Mathematical Stats (4)	
Select 3 of the following courses: (at least one must be MATH 401/M 414 or MATH 433/STAT 433)		12
MATH 401 Determin Modeling (4)	M 414 Deterministic Models (4)	
MATH 441 Adv Calculus (4)	M 431 Abstract Algebra (4)	
MATH 443 Abstract Algebra (4)	M 435 Adv Calculus I (4)	
MATH 444 Adv Number Theory (4)	M 444 Adv Number Theory (4)	
MATH 442 Complex Variables (4)	M 472 Intro/Complex Analysis (4)	
See course @ right	M 494 Sem/Wkshop (4)	
MATH 498 Senior Thesis (4)	M 499 Sr Project/Thesis (4)	
MATH 433 Stochastic Modeling (4)	STAT 433 Stochastic Modeling (4)	

Major Credits

48

Professional Education Core (see page 118 for recommended course sequence)

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
MATH 341 Meth/Mater/Math or M 341 Meth/Mater/Math	EDU 497M Meth: 5-12 Math	4
Select 1 from the following:		4
HHP 241 Pers/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Professional Ed Core Credits

32

Electives

Select from any catalog courses	4-5
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Elective Credits

4-5

Student Teaching

ED 473 Stu Teaching-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4

Student Teaching Credits

12

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED

128

BA: Modern History & Secondary Education Double Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. It is strongly recommended that Modern History Majors also complete the Interdisciplinary Social Science Major. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137). **Note: This page is a duplicate of page 73 of this Catalog.**

General Education (see page 42 for full list)

General Education Credits

31-32

UMW Pre-CCN Course	CCN Equivalent Course	
Highly Recommended:		
GEOG 202 Reg Geog/No Amer (4)	GPHY 246 Geog/No Amer (4)	
PHIL 100 Intro/Philosophy (4)	PHL 101 Intro/Phil: Reason/Reality (4)	
MATH 131 Probability (4)	STAT 121 Probability (4)	

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

Modern History Major

Major Credits

40

ANTH/HIST/POLS/PSY/SOC 222 Qual Meth/SS	ISSS 222 Qual Rsrch Meth/Soc Sci	4
Select 3 from the following (HSTA 101 and HSTA 102 required):		12
HIST 111 Amer Hist to Civil War (4)	HSTA 101 Amer Hist I (4)	
HIST 112 Amer Hist/Reconstr (4)	HSTA 102 Amer Hist II (4)	
HIST 101 European Civ I (4)	HSTR 101 West Civ I (4)	
HIST 102 European Civ II (4)	HSTR 102 West Civ II (4)	
Select 1 from the following:		4
HIST 240 Hist/Far East (4)	HSTR 255 Hist/Far East (4)	
HIST 225 Africa/Mid East (4)	HSTR 260 Africa/Mid East (4)	
HIST 274 World Hist (4)	HSTR 274 World Hist (4)	
See course @ right	HSTR 294 Sem/Wkshop (4)	
Select 1 from the following:		4
HIST 452 Europ Intell Hist (4)	HSTR 423 Europ Intell Hist (4)	
HIST 456 US Cultural Hist (4)	HSTA 412 Amer Thought/Ctr (4)	
See course @ right	HSTR 491 Philosophies of History (4)	
Select 1 from the following:		4
HIST 409 Seminar (4)	HSTA/HSTR 494 Sem/Workshop (4)	
Select 2 additional 300- or 400-level History courses (HSTA 355 required)		8
Select 1 from the following Capstone options:		4
HPSS rubric 409 Seminar (4)	HPSS rubric 494 Seminar (4)	
HIST 400 Coop Ed/Internship (4)	HSTA/HSTR 498 Intern/Coop Ed (4)	
HIST 498 Sr Proj/Thesis (4)	HSTA/HSTR 499 Sr Proj/Thesis (4)	
HPSS Department rubrics: ANTH/ANTY/GEOG/GPHY/HIST/HSTA/HSTR/ ISSS/PHIL/PHL/POLS/PSCI/PSY/PSYX/SOC/SOCI		

Professional Education Core (see page 118 for recommended course sequence)

Professional Ed Core Credits

32

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Div/Ethics in Global Ed ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
ED 357 Meth/Mat in Soc Sci	EDU 497H Meth: 5-12 Soc Studies	4
Select 1 from the following:		4
HHP 241 Personal/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Electives

Elective Credits

12-13

Select from any catalog courses	12-13
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Student Teaching

Student Teaching Credits

12

ED 473 Stu Tchg-Secondary	EDU 495S Stu Tchg: 5-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lnrs (may be taken during or prior to student teaching)	4

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED

128

BS: Music Education K-12 Major

Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137).

General Education (see page 42 for full list)

Music courses used for the Major may also be used to fulfill Gen Ed Humanities requirements

General Education Credits 31-32

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

Music K-12 Major Core

Major Credits 46

UMW Pre-CCN Course	CCN Equivalent Course	
ED 379 Music for Elem Teachers	EDU 397M Meth: K-8 Music	4
MUS 209 String Methods	See course @ left	1
MUS 213 Brass Methods	See course @ left	1
MUS 233 Mus Theory/Ear Train III	See course @ left	4
MUS 372 Conducting	See course @ left	3
MUS 374 Arranging	See course @ left	4
MUS 461 Music History	See course @ left	4
MUS 212 Woodwind Methods	MUSE 133 Techniq: Woodwinds	1
MUS 214 Percussion Methods	MUSE 134 Techniq: Percussion	1
MUS 131 Music Theory I (2)	MUSI 107 Mus Thry I/Aural Percep (4)	4
MUS 141 Appl Musicianship I (2)		
MUS 132 Music Theory II (2)	MUSI 109 Mus Thry II/Aural Percep (4)	4
MUS 142 Appl Musicianship II (2)		
MUS 162 Voice in Class	MUSI 152 Voice in Class	4
MUS 202 Intro/Music Lit	MUSI 202 Intro/Music Lit	4
Select 4 credits from Lessons:		4
MUS 114 Orchestral Instruments (1)	See course @ left	
MUS 153 Piano (V 1-2)	MUSI 195 Appld Music I (V 1-2)	
MUS 163 Voice (V 1-2)	MUSI 150 Beg Voice (V 1-2)	
MUS 187 Performance Seminar (1)	MUSI 187 Performance Study (1)	
MUS 314 Orchestral Instruments (1-2)	See course @ left	
MUS 353 Piano (V 1-2)	MUSI 395 Appld Mus III (V 1-2)	
MUS 363 Voice (V 1-2)	MUSI 363 Voice (V 1-2)	
MUS 387 Performance Seminar (1)	MUSI 387 Performance Study (1)	
Select 4 credits from Ensembles:		4
MUS 113 Instr Ensemble (1)	See course @ left	
MUS 313 Instr Ensemble (1)	See course @ left	
MUS 116 Concert Band (1)	MUSI 114 Band: UMW Cncrt Bnd (1)	
MUS 117 Jazz Ensemble (1)	MUSI 131 Jazz Ensmbl I: UMW (1)	
MUS 165 Voc Ensemble (1)	MUSI 147 Choral Ensmbl: UMW (1)	
MUS 365 Voc Ensemble (1)	MUSI 312 Choir III: UMW (1)	
MUS 316 Concert Band (1)	MUSI 314 Band III: UMW Cncrt Band (1)	
MUS 317 Jazz Ensemble (1)	MUSI 331 Jazz Ens II: UMW (1)	

Professional Education Core (see page 118 for recommended course sequence)

Professional Ed Core Credits 32

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
MUS 351 Meth/Mat in Music (3)	MUSE 497 Meth: Sec Schl Music Prog (4)	4
MUS 378 Sec Schl Music Tching Prac (1)		
Select 1 from the following:		4
HHP 241 Pers/Comm Health (4)	HEE 340 Meth/Hlth Educ (4)	
HHP 245 Human Sexuality (4)	HTH 220 Human Sexuality (4)	
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426).		
*CCN course number to be determined		
A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Electives

Elective Credits 6-7

Select from any catalog courses	6-7
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Student Teaching

Student Teaching Credits 12

ED 474 Stu Teaching K-12	EDU 495A Stu Tchg: K-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lmrs (may be taken during or prior to student teaching)	4

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED 128

BS: Physical Education & Health K-12 Major

This degree prepares candidates for two licensure fields: Physical Education and Health. Refer to pages 107-112 for information on applying for admission to the Teacher Education Program and other program requirements. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining one teaching major with at least one other teaching major or minor) to increase their hiring options. A Coaching Option is also available with any teaching major, but does not lead to licensure (page 137). Students who do not wish to pursue a teaching career may be interested in the BS: Health & Human Performance (page 96).

General Education (see page 42 for full list)

General Education Credits **31-32**

Information & Technology Exam Requirement: If student does not pass the UMW Information & Technology Exam upon entrance to UMW, student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program (TEP).

Physical Education & Health K-12 Major Core

Major Credits **50**

UMW Pre-CCN Course	CCN Equivalent Course	
HHP 205 Dance/Rhythm Meth/Tech I	DANC 285 Dance/Rhythm Meth/Tech I	1
HHP 206 Dance/Rhythm Meth/Tech II	DANC 286 Dance/Rhythm Meth/Tech II	1
HHP 231 First Aid/Safety	ECP 100 First Aid/CPR	1
HHP 374 Elem School HPE/Pract	HEE 302 Meth/Inst Strat/Elem PE	4
HHP 202 Indiv/Dual Sport Meth/Tech	HEE 303 Meth/Lifetime Fitness Act	4
HHP 201 Team Sport Methods/Tech	HEE 304 Meth/Team Sports	4
HHP 454 Adapted PE/Rec	HEE 310 Meth/Adapted Health Ed	4
HHP 241 Pers/Comm Health	HEE 340 Meth/Hlth Educ	4
HHP 347 Org/Admin/Health Enhanc	HEE 410 Org/Admin/Sprt Fitness	4
HHP 245 Human Sexuality	HTH 220 Human Sexuality	4
HHP 143 Found/Health/PE	KIN 205 Found/Sci Fund/HHP	4
See course @ right	KIN 221 Hlth Anat/Physiol	4
HHP 317 Exercise Physiology	KIN 320 Exercise Physiology	4
HHP 315 Biomechanics	KIN 325 Biomechanics	4
HHP 319 Motor Learning/Psychol	KIN 330 Motor Lrng/Control	4
HHP 364 Nutrition; or NUTR 221 Basic Human Nutr	NUTR 411 Nutr/Sports & Exercise	4

Professional Education Core (see page 118 for recommended course sequence)

Professional Ed Core Credits **28**

ED 120 Becom/Prof Educator	EDU 201 Intro/Ed w/Fld Exper	4
ED 253 Psy Found Teach/Learn	EDU 222 Ed Psy/Child Devel	4
ED 425 Mltictrl/Global Ed ¹ (3)	EDU 311 Cultr/Divers/Ethics in Global Educ ¹ (4)	4
ED 426 Mltictrl/Global Ed Prac ¹ (1)		
ED 328 Curr/Instruc/Assess/Mgt (3)	EDU 382 Assess/Curr/Instr (4)	4
ED 329 Curr/Inst/Assess/Mgt Prac (1)		
See course @ right	EDU 391D* Found/Ed Tech/Sec Ed Mjrs	2
ED 445 Meth/Tchg Cont Area Litrcy	EDU 481 Content Area Litrcy	2
See course @ right	EDU 491D* Ed Mgt/Disc/Sec Ed	4
HHP 351 Sec PE/Hlth Methods	HEE 301 Meth/Sec Health Ed	4
¹ Students are strongly encouraged to take ANTY 220 (ANTH 105) as an elective prior to enrolling in EDU 311 (ED 425/426). *CCN course number to be determined A recent certificate of first aid & safety (including child & adult CPR and AED, & infant CPR) is required of all education majors prior to student teaching. HHP 231/ECP 100 is recommended to fulfill this requirement.		

Electives

Elective Credits **6-7**

Select from any catalog courses	6-7
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Student Teaching

Student Teaching Credits **12**

ED 474 Stu Teaching K-12	EDU 495A Stu Tchg: K-12 ²	8
See course @ right	EDU 306 Schl Law/Advoc/All K-12 Lrnrs (may be taken during or prior to student teaching)	4

² Students in an internship program (e.g., Class 5 teachers) will substitute EDU 498 Internship for EDU 495. Consult with Director of Field Experiences to determine appropriate number of credits.

TOTAL CREDITS REQUIRED **128**

Also available—BS: Health & Human Performance (page 96)

BS, Education Minor Areas

Elementary Education majors may also pursue any of the Minors listed for Secondary Education and K-12 in this section.

The following Minors, when combined with a teaching Major and successful completion of the requirements of the Teacher Education Program, lead to a recommendation for Secondary Education (grades 5-12) or K-12 Education licensure in the State of Montana. The UMW Department of Education strongly recommends that candidates seek licensure in more than one subject area (by combining at least one teaching major with at least one other teaching major or minor) to increase their hiring options.

Note: not all states accept a Minor for licensure. Consult with the Director of Field Experiences for information on licensure requirements in other states. Refer to pages 107-112 for information regarding admission to the Teacher Education Program and other program requirements.

Art K-12 Minor

UMW Pre-CCN Course	CCN Equivalent Course	
ART 211 Art History I	ARTH 200 Art/World Civ I	4
ART 212 Art History II	ARTH 201 Art/World Civ II	4
ART 141 Drawing	ARTZ 105 Vis Lang-Drawing	4
ART 140 Color & Design	ARTZ 106 Vis Lang-2-D Found	4
ART 271 Sculpture	ARTZ 108 Vis Lang-3-D Found	4
ART 351 Meth/Mater of Art	ARTZ 403 Tchg Art II—K-12	4
In consultation with advisor, select one 2-D course and one 3-D course from the following:		8
ART 170 Intr/Photog [2-D] (4)	See course @ left	
ART 231 Ceramics [3-D] (4)	ARTZ 231 Ceramics I (4)	
ART 243 Printmakg [2-D] (4)	ARTZ 271 Printmaking I (4)	
ART 247 Glass [3-D] (4)	ARTZ 241 Glass I (4)	
ART 261 Waterclor [2-D] (4)	ARTZ 224 Watercolor I (4)	
ART 267 Painting [2-D] (4)	ARTZ 221 Painting I (4)	
ART 277 Fibers [3-D] (4)	ARTZ 267 Fibers Arts I (4)	
ART 225 Digtl Media [2-D] (4)	MART 226 Intr/Digtl Media 2D (4)	
One 300-level Art course	See course @ left	4
Total Credits		36

Business & Computer Applications Minor

General Education

UMW Pre-CCN Course	CCN Equivalent Course	
ECON 250 Prin/Economics	ECNS 203 Prin/Micro/Macro	4
BUS 241 Financial Acctng	ACTG 201 Prin/Fin Acctng	4
BUS 201 Sm Bus Develop	BMGT 210 Sm Bus Entrep	4
COMS 205 Bus Info Systems	BMIS 270 MIS Found/Bus	4
BUS 217 Bus/Electr Comm	See course @ left	4
COMS 135 Microcomp Appl	CAPP 131 Basic MS Office	4
COMS 236 Adv Micro Appl	CAPP 251 Adv MS Office	4
COMS 212 Intro/Web Design	See course @ left	4
COMS 210 Comp Hrdwr/ Sftwr Mgt	ITS 205 Comp Hrdwr/Sftwr Mgt	4
Select 1 from the following::		4
BUS 325 Prin/Prac Mgt (3)	BMGT 335 Mgt & Org (4)	
BUS 347 Prin/Prac Mrktng (3)	BMKT 325 Prin/Mrktng (4)	
Methods Courses:		
BUS 351Meth/Mat Bus Theory Subjects	See course @ left	2
COMS 351 Meth/Mat Comp Appl	BMIS 397 Meth/Mat/Comp Appl	2
Total Credits		40

Biology Minor

General Education

BIO 111 Biology I	BIOB 160 Prin/Living Syst	4
MATH 131 Probability	STAT 121 Probability	4
BIO 112 Biology II	BIOB 170 Prin/Biol Diversity	4
BIO 255 Cell Biology	BIOB 260 Cell/Molec Biol	4
BIO 343 Genetics	BIOB 375 Gen Genetics	4
BIO 450 Evolution	BIOB 420 Evolution	4
BIO 477 Ecology	BIOE 370 Gen Ecology	4
BIO 371 Hum Anat/Physiol	BIOH 365 Hum AP I/Hlth Prof	4
BIO 372 Hum Anat/Physiol	BIOH 370 Hum AP II/Hlth Prof	4
CHEM 131 Gen Chem	CHMY 141 College Chem I	4
ED 355 Meth/Mat Exper Sci Ed	EDU 497S Meth: 5-12 Science	4
MATH 232 Statistics	STAT 217 Intrmed Stat Cncpts	4
Total Credits		40

Computer Science K-12 Minor

Note: Check with Department about availability of this Minor

COMS 351 Meth/Mat/Comp Appl	BMIS 397 Meth/Mat/Comp Appl	2
COMS 339 Database Mgt	CAPP 258 Adv MS Access	3
COMS 111 Prog Fund	CSCI 110 Prog/Vis Basic I	3
COMS 215 Intro/C Progr	CSCI 112 Prog w/C I	3
COMS 210 Comp Hrdwr/Sftwr Mgt	ITS 205 Comp Hrdwr/Sftwr Mgt	4
COMS 387 Telecomm	ITS 360 Bus Telecomm/Netwrkg	3
COMS 403 Syst Anlys/Design	ITS 403 Syst Analysis/Design	4
Select 3 from the following:		11-12
COMS 245 Prog/Web App (3)	See course @ left	
COMS 176 Intro/Router Tech (CISCO II) (4)	ITS 176 Intro/Router Tech (4)	
COMS 226 Rout/Switching (CISCO III) (4)	ITS 258 Rout/Switching (4)	
COMS 276 Network Design (CISCO IV) (4)	ITS 270 Network Design (4)	
MATH 103 Game Theory (4)	M 103 Game Theory (4)	
Total Credits		33-34

BS, Education Minor Areas

Drama K-12 Minor

General Education

UMW Pre-CCN Course	CCN Equivalent Course	
Humanities: Literary & Artistic Studies		4
FA 101 Intro Visual/Perf Arts (4)	ARTH 160 Global Vis Ctr (4)	

DR 351 Classrm Drama Methods, or THTR 397 Methods: Drama/K-12	EDU 397D Methods: K-12 Drama	2
DR/ENG 441 Drama Hist/Lit Genre	LIT 441 Drama Hist/Lit Genre	4
DR 241 Play Prod/Intro/Direct	THTR 276 Play Prod/Intro/Dir	4
DR 243 Stagecraft/Costume	THTR 202 Stgrcft I: Light/ Costumes	4
DR 276 Acting Fund/Styles	THTR 120 Intro/Acting I	4
Select 1 from the following:		2-4
DR 101 Drama Fundamentals (4)	THTR 101 Intro/Theatre (4)	
DR 401 Creative Drama Methods (2)	THTR 401 Crtv Dr/Improv (2)	
Select 1 from the following:		4
DR/ENG 455 Shakespeare (4)	LIT 473 Stdies/Shakespeare (4)	
ENG 453 Genre Seminar Drama (4)	LIT 494 Sem: Genre (4)	
Select 4 credits from the following:		4
FA 301 Contemp Arts Issues (4)	ARTH 350 Contemp Art/Art Crit (4)	
DR/ENG 455 Shakespeare (4) (if not taken above)	LIT 473 Stdies/Shakespeare (4) (if not taken above)	
DR 217 Theatre Prac (V 1-2)	THTR 205 Thtr Wkshp II (V 1-2)	
DR 346 Drama for Youth (2)	THTR 338 Drama/Youth (2)	
DR 466 Storytelling (2)	THTR 435 Storytelling (2)	
DR 460 Adv Directing (4)	THTR 479 Dir/Comm/Schls (4)	

Total Credits

28-30

Early Childhood Education Minor

(see page 115)

Earth Science Minor

General Education

CHEM 131 Gen Chemistry	CHMY 141 College Chem I	4
Select 1 from the following:		4
GEOL 101 Intro to Geology (4)	GEO 101 Intro/Phys Geol (4)	
GEOL 150 Envtl Geology (4)	GEO 103 Inro/Envtl Geol (4)	

PHYS 240 Astronomy	ASTR 110 Intro/Astronomy	4
ED 355 Meth/Mat Exper Sci Ed	EDU 497S Meth: 5-12 Science	4
GEOL 226 Rocks/Min/Res	GEO 226 Rocks/Min/Res	4
GEOL 330 Structure/Tectonics	GEO 315 Struct Geol	4
GEOL 378 Surficial Processes	GEO 378 Surficial Processes	4
GEOL 432 Depositional Envtls	GEO 309 Sedim/Stratigraphy	4
PHYS 239 Phys Meteorol	PHSX 249 Phys Meteorol	4

Total Credits

28

English Minor

UMW Pre-CCN Course	CCN Equivalent Course	
ENG 204 Creatv Writing Wkshp	CRWR 240 Int/Crtv Writ Wkshp	4
ENG 352 Methods/Teach Comp	EDU 497L Meth: 5-12 Integr Lit/Comp I	4
ENG 353 Methods/Teach Lit	EDU 497C Meth: 5-12 Integr Lit/Comp II	4
ENG 413 Hist/Struc/Nature Lang	LING 413 Hist/Struc/Nat Lang	4
ENG 279 Fund/Literary Theory	LIT 300 Lit Criticism	4
ENG 280 Visions/America	LIT 218 Visions/America	4
ENG 330 Mythology	LIT 285 Mythologies	4
ENG/DR 455 Shakespeare	LIT 473 Studies/Shakespeare	4
Select 4 credits from the following:		4
ENG 301 Poetry Workshop (4)	CRWR 311 Int Poet Wkshp (4)	
ENG 302 Fiction Workshop (4)	CRWR 310 Int Fict Wkshp (4)	
ENG 303 Nonfiction Workshop (4)	CRWR 312 Int Nonfic Wkshp (4)	
See course @ right	EDU 391F Chld/Yng Adlt Lit (4)	
ED 445 Meth/Tch Cont Area Ltrcy (2)	EDU 481 Cnnt Area Ltrcy (2)	
ENG 320 Lit in Translation (4)	LIT 302 Lit in Translation (4)	
ENG 339 Literary Regions (4)	LIT 339 Literary Regions (4)	
ENG 361 Poetry & Thought (4)	LIT 361 Poetry & Thought (4)	
ENG 362 Sem/Women's Lit (4)	LIT 335 Women & Lit (4)	
ENG/DR 441 Drma Hist/Lit Gnre (4)	LIT 441 Drma Hist/Lit Genre (4)	
ENG 452 Sem/Literary Period (4)	LIT 494 Sem: Lit Period (4)	
ENG 453 Genre Seminar (4)	LIT 494 Sem: Genre (4)	
ENG 454 Authors Seminar (4)	LIT 494 Sem: Majr Authors (4)	
ENG 479 Seminar/Lit Theory (4)	LIT 479 Studies/Lit Theory (4)	
DR 241 Play Produc/Intro/Direct (4)	THTR 276 Play Prd/Intr/Dir (4)	

Total Credits

36

History Minor

UMW Pre-CCN Course	CCN Equivalent Course	
ED 357 Meth/Mat/Soc Sci	EDU 497H Meth: 5-12 Soc Stidies	4
HIST 371 MT/American West	HSTA 355 MT/Amer West	4
Select 1 from the following:		4
HIST 221 Quant Meth/Soc Sci (4)	ISSS 221 Quant Meth/Soc Sci (4)	
HIST 222 Qual Meth/Soc Sci (4)	ISSS 222 Qual Meth/Soc Sci (4)	
PSY 221 Quant Meth/Soc Sci (4)	PSYX 203 Intr/Soc Sci Rsrch Meth (4)	
Select 1 from the following:		4
HIST 101 European Civ I (4)	HSTR 101 West Civ I (4)	
HIST 102 European Civ II (4)	HSTR 102 West Civ II (4)	
Select 1 from the following:		4
HIST 111 Amer Hist/Civil War (4)	HSTA 101 Amer Hist I (4)	
HIST 112 Amer Hist/Recon (4)	HSTA 102 Amer Hist II (4)	
Select 1 from the following:		4
HIST 240 Hist/Far East (4)	HSTR 255 Hist/Far East (4)	
HIST 225 Africa/Mid East (4)	HSTR 260 Africa/Mid East (4)	
HIST 274 World Hist (4)	HSTR 274 World Hist (4)	
Select 2 from the following:		8
HIST 325 Hist/Mass Media (4)	HSTA 331 Hist/Mass Media (4)	
HIST 362 African-Amer Hist (4)	HSTA 341 Afric-Amer Hist (4)	
HIST 370 Women's History (4)	HSTA 386 Women's Hist (4)	
HIST 456 US Cultrl Hist (4)	HSTA 412 Amer Tht/Cltr (4)	
HIST 320 Hist/Cent Europe I (4)	HSTR 310 Hist/Cent Eur I (4)	
HIST 321 Hist/Cent Europe II (4)	HSTR 311 Hist/Cent Eur II (4)	
HIST 380 Modern Europe (4)	HSTR 326 Contemp Europe (4)	
HIST 360 Cold War Europe (4)	HSTR 360 Cold War Europe (4)	
HIST 452 Europ Intellec Hist (4)	HSTR 423 Eur Intell Hist (4)	
HIST 409 Seminar (4)	HSTA/HSTR 494 Sem/Wkshp (4)	
POLS 321 Comparative Politics (4)	PSCI 331 Intl Rel Thry (4)	
POLS 341 Political Economy (4)	ISSS 321 Compar Polit (4)	
POLS 313 Intntl Rel/Amer Diplom (4)	ISSS 341 Polit Econ (4)	

Total Credits

36

BS, Education Minor Areas

Industrial Technology Minor

(IT courses at Helena College UM; contact UMW Provost for availability of this Minor)

IT 135 Computer-Aided Drafting	DDSN 114 Intro/Comptr-Aid Drft	3
IT 120 Power Fundamentals	See course @ left	3
IT 130 Graphic Communication	See course @ left	3
IT 220 Appl Electricity/Electronics	See course @ left	2
IT 240 Woodwk/Statnry Mach	See course @ left	3
IT 351 Meth/Mat Industrial Technol	See course @ left	4
IT 241 Machining	MCH 200 Machining	3

Total Credits **21**

Library Media K-12 Minor

See course @ right	EDU 391F Child/Yng Adult Lit ^W	4
LIB 461 Info Literacy/Curric ^W	LIBM 461 Info Literacy ^W	3
LIB 464 Reference Resources ^W	LIBM 464 Reference Resources ^W	3
C&I 480 Collect Devel/Curric ^M	LIBM 463 Libr Collection Devel ^M	3
C&I 483 Libr Media Techn Proc ^M	LIBM 465 Libr Media Tech Proc ^M	3
C&I 484 Adm/Assess/Libr Media ^M	LIBM 468 Adm/Assess/Libr Media Prog ^M	3
C&I 488 Library & Technol ^M	LIBM 466 Libr/Technology ^M	3
Select 1 from the following:		3
C&I 485 Libr Media Practicum ^M (3)		
LIB 469 Libr Media Practicum ^W (3)	LIBM 495 Practicum ^{M,W} (3)	

Total Credits **25**

^M Class offered through UM, Missoula
^W Class offered through UMWestern, Dillon

Mathematics Minor

General Education

PHYS 233 General Physics	PHSX 220 Physics I	4
MATH 131 Probability	STAT 121 Probability	4

MATH 351 Meth/Mat in Math	EDU 497M Meth: 5-12 Math	4
MATH 201 Calculus I	M 171 Calculus I	4
MATH 202 Calculus II	M 172 Calculus II	4
MATH 260 Linear Algebra	M 221 Intro/Linear Algebra	4
MATH 341 College Geometry	M 329 Modern Geometry	4
MATH 343 Found/Math	M 343 Found/Math	4
Select 1 from the following:		4
MATH 232 Statistics (4)	STAT 217 Int Stat Cncpts (4)	
MATH 333 Math Stats (4)	STAT 422 Math Stats (4)	
Select 1 from the following:		4
MATH 203 Calculus III (4)	M 273 Multivar Calculus (4)	
MATH 311 Ord Diff Equations (4)	M 274 Intro/Diff Equat (4)	
MATH 401 Determin Modlmg (4)	M 414 Determ Models (4)	
MATH 433 Stochast Modlmg (4)	STAT 433 Stoch Modlmg (4)	
Select 1 from the following:		4
MATH 443 Abstrct Algebra (4)	M 431 Abstrct Algbra I (4)	
MATH 441 Adv Calculus (4)	M 435 Adv Calculus I (4)	
MATH 444 Adv Nmbr Theory (4)	M 444 Adv Nmbr Theory (4)	
MATH 442 Complex Variables (4)	M 472 Intro/Cmplx Anlys (4)	

Total Credits **36**

Literacy K-12 Minor

UMW Pre-CCN Course	CCN Equivalent Course	
ED 270 Literacy/Lang/Texts	EDU 233 Lit/Lang/Texts	4
ED 370 Teach Lang Arts/Read/Children's Lit/Elem School	EDU 397L Meth: K-8 Lang Arts/Soc Stds/All Lrnrs	4
ED 381 Intro Litrcy/Assess/Inst (3)	EDU 438 Litrcy Assess/Diag/Instruc (4)	4
ED 382 Lit Pract: Strug Rdrs Gr 1-4 (1)		
ED 446 Adv Litrcy Assess/Diag/Inst K-12 (2)	EDU 448 Adv Litrcy Assess/Diag/Inst	4
ED 447 Lit Prac: Adv Litrcy Assess/Diag/Instruction K-12 (2)		
ED 460 Prof/Rsrch Litrcy Ed (3)		
ED 461 Capstone Litrcy Prac: Strug Rdrs Gr K-12 (1)	EDU 489 Rsrch/Prof/Litrcy Ed	4
ENG 352 Meth/Tchng Comp	EDU 497L Meth: 5-12 Integr Lit/Comp I	4
ENG 353 Meth/Tchng Lit	EDU 497C Meth: 5-12 Integr Lit/Comp II	4
Select 1 from the following:		4
See course @ right	EDU 391F Child/Yng Adult Lit (4)	
See course @ right	LIT 282 Chld/Yng Adlt Lit (4)	

Total Credits **32**

Required: Development of a Literacy Education Portfolio and exit interview with the Literacy Program Coordinator following student teaching.

Candidates must complete all required courses with no grade below B-.

BS, Education Minor Areas

Music K-12 Minor

UMW Pre-CCN Course	CCN Equivalent Course	
ED 379 Music/Elem Teachers	EDU 397M Meth: K-8 Music	4
MUS 209 String Methods	See course @ left	1
MUS 213 Brass Methods	See course @ left	1
MUS 372 Conducting	See course @ left	3
MUS 212 Woodwind Methods	MUSE 133 Tech: Woodwinds	1
MUS 214 Percussion Methods	MUSE 134 Tech: Percussion	1
MUS 351 Meth/Mat in Music	MUSE 497 Methods: Sec Schl Music Prog (4)	4
MUS 131 Music Theory I (2)	MUSI 107 Mus Thry I/Aural	4
MUS 141 Applied Musshp I (2)	Percep (4)	
MUS 132 Music Theory II (2)	MUSI 109 Mus Thry II/Aural	4
MUS 142 Applied Musshp II (2)	Percep (4)	
MUS 162 Voice in Class	MUSI 152 Voice in Class	4
MUS 202 Intro/Music Lit	MUSI 202 Intro/Music Lit	4
Select 2 credits from Lessons:		2
MUS 114 Orches Instrmnts (1)	See course @ left	
MUS 314 Orch Instrmnts (V 1-2)	See course @ left	
MUS 163 Voice (V 1-2)	MUSI 150 Beg Voice (V 1-2)	
MUS 187 Perform Sem (1)	MUSI 187 Perform Study (1)	
MUS 153 Piano (V 1-2)	MUSI 195 Apl Mus I (V 1-2)	
MUS 363 Voice (V 1-2)	MUSI 363 Voice (V 1-2)	
MUS 387 Perform Sem (1)	MUSI 387 Perform Study (1)	
MUS 353 Piano (V 1-2)	MUSI 395 Apl Mus III (V 1-2)	
Select 2 credits from Ensembles:		2
MUS 113 Instrmntl Ensemble (1)	See course @ left	
MUS 313 Instrmntl Ensemble (1)	See course @ left	
MUS 316 Concert Band (1)	MUSI 314 Band III: UMW Concert Band (1)	
MUS 317 Jazz Ensemble (1)	MUSI 331 Jazz Ens II: UMW (1)	
MUS 365 Vocal Ensemble (1)	MUSI 312 Choir III: UMW (1)	

Total Credits

35

Note: Ensemble participation is expected of Music K-12 Minors each semester of full-time attendance, except the student teaching semester. Also, there are piano and voice requirements for the Music Education professional. Consult Music faculty for details.

Special Education K-12 Minor

UMW Pre-CCN Course	CCN Equivalent Course	
ED 281 Partnerships & Collab; or EDU 241 Partnrshps/Collab; or EDU 391A Collab/Plan/Exct IEPs	EDSP 281 Coll/Plan/Exec IEPS	4
EDU 491I Intrv/Stu w/Severe Behav/Soc Disabil ²	EDSP 302 Tchg Stu w/Emotl Disabil	4
EDU 491H Meth Inst/Stu w/Low Inc Disabilities ²	EDSP 303 Tchg Stu w/Intell Disabil	4
ED 434 Mgt of Except Lrnrs or EDU 491B Behav Princ/Lrng/Tchg	EDSP 434 Behav Prin/Lrning/Tchg	4
ED 431 Meth Inst/Stu w/High Inc Disabil or EDU 491G Meth Inst/Stu w/High Incid Disabil	EDSP 464 Meth/Instr/Stu w/High Incid Disabilities	4
EDU 491A Resp/Intrv Best Prct ²	EDSP 470 Resp/Intrv Best Prac	4
Select 1 of the following:		6-7
See course @ right	For Minor: EDU 495A Stu Tchg: K-12 (6) ³	
See course @ right	For Endorsement: EDU 498 Intrnshp/Spec Ed (7)	

Total Credits

30-31

¹ CCN equivalent course to be determined.

² Prereq: ED 434/EDU 491B/EDSP 434 Behavioral Principles of Learning & Teaching, or consent of Program Coordinator

³ Students in an internship program (e.g., Class 5 teachers) will substitute 4 credits of EDU 498 Internship for each semester they are enrolled in an internship.

Candidates must complete all required courses with no grade below B-.

Note: For Special Ed Minor, ED 341 required for students who have not taken EDU 201, EDU 222, EDU 311, and EDU 382.

ED 341 Exceptional Learner required for students applying for post-baccalaureate endorsement.

Physical Education & Health K-12 Minor

HHP 205 Dnce/Rthm Meth/Tech I	DANC 285 Dance/Rhyth Meth/Tech I	1
HHP 206 Dnce/Rthm Meth/Tech II	DANC 286 Dance/Rhyth Meth/Tech II	1
HHP 201 Team Sport Meth/Techniq	HEE 304 Meth/Team Sports	4
HHP 202 Indiv/Dual Sprt Meth/Tech	HEE 303 Meth/Lifetime Fit Act	4
HHP 351 Sec PE/Health Methods	HEE 301 Meth/Sec Health Ed	4
HHP 374 Elem School HPE/Pract	HEE 302 Meth/Inst Strat/Elem PE	4
HHP 241 Pers/Community Health	HEE 340 Meth/Hlth Educ	4
HHP 143 Found/Health/PE	KIN 205 Found/Sci Fund/HHP	4
HHP 317 Exercise Physiology	KIN 320 Exercise Physiology	4
HHP 315 Biomechanics	KIN 325 Biomechanics	4
HHP 319 Motor Lrng/Psychol	KIN 330 Motor Lrng/Control	4

Total Credits

38

BS, Education

Coaching Option; Special Education Concentration

Coaching Option may be taken with any degree, but does not lead to licensure.

Coaching Option¹

UMW Pre-CCN Course	CCN Equivalent Course	
HHP 311 Athletic Training I	AHAT 210 Prev/Care Athl Inj	4
HHP 350 Coaching: Pedagog/Admin/Ethics	COA 305 Coach: Pedag/Adm/Ethics	4
HHP 315 Biomechanics	KIN 325 Biomechanics	4
HHP 416 Cond Prog Devel	KIN 410 Adv Strngth Trng/Cond	4
Select 3 from the following:		6
HHP 359 Officiating (2)	COA 210 Intro/Sports Officiating (2)	
HHP 358 Coach/Volleyball (2)	COA 240 Coach Volleyball (2)	
HHP 355 Coach/Football (2)	COA 242 Coach Football (2)	
HHP 352 Coach/Basketball (2)	COA 245 Coach Basketball (2)	
HHP 354 Coach/Baseball/Softball (2)	COA 246 Coach Sftball/Bsball (2)	
HHP 353 Coach/Track/Field (2)	COA 256 Coach Track/Field (2)	
HHP 356 Coach/Wrestling (2)	COA 258 Coach Wrestling (2)	
Total Credits		22

¹ Students completing this option are encouraged to take HHP 410 Athletic Training II/AHAT 330 Advanced Techniques in Sports Medicine

Candidates must complete all required courses with no grade below B-.

Special Education Concentration

UMW Pre-CCN Course	CCN Equivalent Course	
ED 431 Meth/Mat/Stu/Lrng Disabil/Cogntv Delay; or EDU 491G Meth/Instr/Stu/High Incidnc Disabil	EDSP 464 Meth/Instr/Stu/High Incidnc Disabil	4
EDU 491A Rspns/Intrvnt Best Pract	EDSP 470 Rspns/Intrvnt Best Pract	4
ED 400 Coop Ed/Intrnshp; or ED 475 Tchg Intrnshp; or ED 476 Licensure Intrnshp	EDU 498 Internship	4
Select 2 from the following:		8
EDU 241 Ptnrshps/Collab (4); or EDU 391A Collab/Plan/Exct IEPs (4)	EDSP 281 Collab/Plan/Exct IEPs (4)	
EDU 491I Intrvntn/Stu/Severe Behav/Soc Disabil (4)	EDSP 302 Tchg Stu/Emotnl/Behav Disabil (4)	
EDU 491H Meth/Instr/Stu/Low Incid Disabil (4)	EDSP 303 Tchg Stu/Intllctl Disabil (4)	
ED 434 Mgt/Exceptl Lmrs (4); or EDU 491B Behavrl Prin/Lrng/Tchg (4)	EDSP 434 Behavrl Prin/Lrng/Tchg (4)	
Total Credits		20

COURSE DESCRIPTIONS

INTRODUCTION

UMW reserves the right to add, discontinue, cancel, or change offerings listed in this publication as authorized by the Montana University System Board of Regents.

Course Numbering

The following numbers are used to designate courses:

000-099	College Prep (does not meet graduation requirements, grades not calculated into GPA)
100-199	Primarily for Freshmen (considered lower-level)
200-299	Primarily for Sophomores (considered lower-level)
300-399	Primarily for Juniors (considered upper-level)
400-499	Primarily for Seniors (considered upper-level)
191/291/391/491	UMW Experimental or Temporary

UMW	CCN	
200/400	298/498	Internship/Cooperative Education
219/419	---	Directed Study*
---	290/490	Undergraduate Research
290/490	292/492	Independent Study
---	493	Study Tour/Study Abroad
---	494	Seminar/Workshop
---	495	Field Work/Clinical/Practicum/Student Teaching
---	496	Service Learning
498	499	Senior Project/Thesis/Capstone

Common Course Numbering (CCN)

The Montana University System is in the process of developing simple and clear procedures and policies regarding the transfer of credits among the various units of the Montana University System. To assist with this process, some new rubrics and a common course numbering system have been and are being established. Throughout this Catalog, existing UMW rubrics and courses listed refer to any newly established rubrics and CCN equivalent courses (*shown in italics*) that have been approved under this Common Course Numbering system. Some rubrics are still under review and changes to those rubrics have not yet occurred. Where degree requirements don't list an approved equivalent course to date, the UMW course in the adjacent column is the course being used.

Seminar & Practicum

Any seminar or practicum must be approved by the Provost. A copy of the academic requirements for completion of the course must be filed with the Provost at the beginning of the semester.

*Directed Study (DS)

Students taking Directed Study courses (courses not listed on the current term class schedule) must complete a Directed Study contract prepared jointly by the student and the instructor of record that outlines the course objectives, the intended outcomes or product, and the method of evaluation. The proposal is then approved by the appropriate Department Chair and the Provost. Directed Study courses duplicate current Catalog courses that are not scheduled during the current term.

Undergraduate Research (UR)

Any student taking an Undergraduate Research course must sign a written statement prepared jointly by the student and the instructor of record that outlines the course objectives, the intended outcomes or product, and the method of evaluation. The proposal is then approved by the appropriate academic administrators. There are two levels of Undergraduate Research: lower-level (290) and upper-level (490). UR courses may be from 2-8 credits.

Independent Study (IS)

All students taking Independent Study courses must complete an Independent Study contract prepared jointly by the student and the instructor of record that outlines the course objectives, the intended outcomes or product, and the method of evaluation. The proposal is then approved by the

appropriate academic administrator. There are two levels of Independent Study: lower-level (290/292) and upper-level (490/492). Independent Study courses cover subjects/content not found in regular Catalog offerings. It may be possible for the substitution of an Independent Study for a regular Catalog course. If the course is to be substituted for a regular Catalog course, prior approval of an instructor who regularly teaches that course must be obtained. A limit of three (3) Independent Study courses will be applicable to graduation. Independent Study courses may be from 1-4 credits.

Corequisite (Coreq)

A course that must be taken concurrently or in the same term/semester with the course containing the corequisite listing.

Prerequisites (Prereq)

Requirements or conditions that must be completed prior to enrollment in a course or program, or continuation in a program. Prerequisites for admission to certain courses are indicated by abbreviations as follows:

<i>c/dfe</i>	Requires consent of Director of Field Experiences
<i>c/i</i>	Requires consent of instructor
<i>c/pc</i>	Requires consent of program or department chair
<i>c/vc</i>	Requires consent of Vice Chancellor for Academic Affairs/Provost
<i>TEP</i>	Requires admission to Teacher Education Program

Course Credit

The credits for the course are listed after the title and generally denote the number of lecture hours per week required for the course. The letter "V" indicates **variable credit**. An "R" indicates that the course may be **repeated for credit**; for example, R-3 indicates that the course may be taken a total of 4 times--the initial attempt plus three (3) repeats for credit. Equal or equivalent courses are indicated by the equal sign (=).

Timing of Course Offerings

Students should consult with their advisor to assure that courses will be offered when desired. Note in course descriptions that some courses are offered every semester, some are only offered in the fall or spring, and others are only offered every other year. Designing a 4-year plan of study with the advisor early in a student's academic career is essential to ensure that students get courses needed to graduate.

Cultural Diversity Component

General Education courses designated with (CD) meet Montana University System components for cultural diversity (see page 43).

Course Fees

NOTE: Additional fees may apply for some courses. For courses that have received Montana Board of Regents approval to assess a specific course fee, the course descriptions indicate that fee. Current course fee information is also available at: <http://my.umwestern.edu/current/>.

Unless otherwise specified in this Catalog or formally communicated by the appropriate academic department, students must earn a minimum grade of C- (C minus) or higher to satisfy requirements for all General Education and program course requirements and all General Education and program requirement prerequisite courses.

2013-14 COURSE DESCRIPTIONS

Note: New Common Course Numbering system rubrics and courses are displayed *in italics* throughout this Catalog.

ACT—Activities [New CCN rubric effective Fall 2012]

ACT 100 BASIC SKILLS (V 1-2)

Pre-Fall 2012 UMW course: HHP 100 Basic Skills

Beginning, intermediate, and advanced levels of skill development. Examples of basic skill courses would include swimming, aerobic fitness, etc. May not be used or substituted for a specific course in HHP. Assessment will include methods appropriate to course outcome.

ACT 110 BEGINNING WEIGHT TRAINING (I)

Pre-Fall 2012 UMW course: HHP 131 Weight Training-Coed

Designed for students who are *not* participating in varsity athletics, the course is an introduction to the basic weight training skills with an emphasis on developing an individualized program for each student's needs. Students are expected to demonstrate knowledge through exams and class participation. Student participation is critical to the overall grade. (fall/spring)

ACT 114 BEGINNING ROCK CLIMBING (I)

Pre-Fall 2012 UMW course: HHP/ENVS 150 Basic Rock Climbing

This field-based introductory course is designed for students who desire to learn the basic techniques of rock climbing. Students will learn fundamental safety techniques for climbing, care and handling of the rope, basic knots, use of climbing harnesses, basic belaying techniques, communication between climbing partners, basic rappelling, and basic climbing techniques. Evaluation is based upon participation and performance. \$40 Course Fee. (fall)

ACT 120 BEGINNING ALPINE SKIING (I)

Pre-Fall 2012 UMW course: HHP 118 Skiing

This course offers an introduction to the basic skills of downhill skiing. Instructional groups will be formed for beginner, intermediate, and advanced experience levels. Students are expected to demonstrate comprehension of the sport through exams and class participation. Student participation is critical to overall grade. Equipment rental is available at Maverick Mountain. Course Fee—Varies (to cover lift ticket and lesson costs). (spring)

ACT 121 SNOWBOARDING BASICS (I)

Pre-Fall 2012 UMW course: HHP 117 Snowboarding

This course is an introduction to the basic skills of snowboarding. Instructional groups will be formed for beginner, intermediate, and

advanced snowboarders. Students are expected to demonstrate comprehension of the sport through exams and class participation. Student participation is critical to overall grade. Equipment rental is available at Maverick Mountain. Course Fee—Varies (to cover lift ticket and lesson costs). (spring)

ACT 157 BEGINNING MARTIAL ARTS (I)

Pre-Fall 2012 UMW course: HHP 109 Self Defense

This course is an introduction to the basic concepts and practical ways in which people defend themselves in an attack situation. The primary focus will be on strategically placed kicks, hand-strikes, joint locks, and throws. Students can expect extensive hands-on experience utilizing heavy bags and physical contact with classmates. Appropriate attire for class activities is mandatory. Students will be expected to devote out-of-class time to skill practice and research-based projects. Assessment will be based on attendance, participation, and research projects. (fall)

ACT 173 BEGINNING FLY FISHING/FLY TYING (I)

Pre-Fall 2012 UMW course: HHP 108 Fly Fishing & Fly Tying

This class is an introduction to the basic skills and knowledge of fly fishing and fly tying that will include tackle selection and care, casting, entomology, fish habitat, stream ethics, tactics, and strategy. Students are expected to demonstrate comprehension of the sport through exams, homework assignments, and class participation. Student participation is critical to the overall grade. Assignments will include out-of-class fly tying, habitat assessment, studying Fish & Wildlife regulations, skill practice, and relevant projects. Students are encouraged to supply their own tackle, but some tackle is available for student use. \$14 Course Fee. (spring)

ACT 208 RACQUET SPORTS (I)

Pre-Fall 2012 UMW course: HHP 126 Racquet Sports

Introduction to the basic skills of a variety of racquet sports including tennis, badminton, racquetball, and pickleball. Students are expected to demonstrate comprehension of each sport through exams and class participation. \$15 Course Fee. (spring)

Note: New Common Course Numbering system rubrics and courses are displayed *in italics* throughout this Catalog.

ACTG—Accounting [New CCN rubric effective Fall 2009]

ACTG 201 PRINCIPLES OF FINANCIAL ACCOUNTING (4)

Pre-Fall 2009 UMW course: BUS 241 Financial Accounting

Course emphasizes the understanding of fundamental accounting principles and procedures and will develop the student's accounting problem-solving and critical thinking abilities. Topics covered include the basic structure of analyzing and recording transactions, establishing accounting policy, generally accepted accounting principles, control of cash, receivables and payables, merchandise inventory evaluation methods, recording of property, plant, and equipment transactions, and long-term financing. Sources of equity capital for corporations and financial statements are analyzed. \$20 Course Fee. Prereq: COMS 135 (*CAPP 131*), and 100-level math; or c/i. (fall/spring)

ACTG 202 PRINCIPLES OF MANAGERIAL ACCOUNTING (4)

Pre-Fall 2009 UMW course: BUS 242 Managerial Accounting

Course emphasizes the fundamental concepts for planning, control, and decision-making. Topics covered include the basic structure of systems design, planning and control through standard costs, cost variance analysis, cost-volume-profit analysis, operating and capital budgets, and using relevant costs in decision-making. \$20 Course Fee. Prereq: BUS 241 (*ACTG 201*) grade C- or higher. (fall/spring)

ACTG 301 INTERMEDIATE ACCOUNTING I (3)

Pre-Fall 2009 UMW course: BUS 321 Intermediate Accounting I
Brief overview of elementary financial accounting principles with concentrated study of theory and practice relating to assets and liabilities. Prereq: BUS 242 (*ACTG 202*). (on demand)

ACTG 302 INTERMEDIATE ACCOUNTING II (3)

Pre-Fall 2009 UMW course: BUS 322 Intermediate Accounting II
Financial accounting theory and concepts; concentrated study of problems arising in applying these concepts to assets and liabilities, and owner's equity. Prereq: BUS 321 (*ACTG 301*). (on demand)

ACTG 401 PRINCIPLES OF FEDERAL TAXATION-INDIVIDUALS (3)

Pre-Fall 2009 UMW course: BUS 311 Income Tax Accounting
Study of the tax laws applicable to individuals, proprietorships, and partnerships in filing returns and determining taxable income, exemptions, deductions, and credits. Prereq: BUS 242 (*ACTG 202*). (on demand)

ACTG 410 COST/MANAGEMENT ACCOUNTING I (3)

Pre-Fall 2009 UMW course: BUS 371 Cost Accounting
Elements of product cost including job, process, standard, and variable costing systems and procedures. A managerial emphasis is added through inclusion of cost-volume-profit relationship, budgeting techniques, and other selected topics. Prereq: BUS 322 (*ACTG 302*). (on demand)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ACTV—Activities: Varsity
[New CCN rubric effective Fall 2013]

ACTV 129 INTRODUCTION TO ATHLETIC WEIGHT TRAINING (1)

Pre-Fall 2013 UMW course: HHP 129 Introduction to Athletic Weight Training

Introduction to and instruction in weight training through participation in the off-season weight training program of a sport during the first year of participation in that sport at UMW. Students are expected to demonstrate knowledge and comprehension of basic conditioning skills through the use of resistance training. Group participation. Not repeatable; maximum 1 credit. (fall/spring)

ACTV 130 WEIGHT TRAINING FOR ATHLETES (1) R

Pre-Fall 2013 UMW course: HHP 130 Weight Training for Athletes
Continued instruction in athletic weight training through participation in the off-season weight training of a sport during the second and subsequent years of participation in that sport at UMW. Students are expected to demonstrate knowledge and comprehension of basic and

advanced conditioning skills through the use of resistance training. Graded on a Pass/No Pass basis. Repeatable; maximum 7 credits. (fall/spring)

ACTV 189 VARSITY ATHLETICS (1) R-7 credits maximum

Pre-Fall 2013 UMW course: HHP 135 Varsity Athletics
Continued participation in the intercollegiate athletic program during a second and subsequent season of sports participation, including participation in a second sport. May be taken concurrently with *ACTV 130 Weight Training for Athletes*. Students are expected to demonstrate a continued understanding and knowledge of the skills associated with participation in intercollegiate athletics. Graded on a Pass/No Pass basis. Repeatable; maximum 7 credits. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

AHAT—Applied Health: Athletic Training
[New CCN rubric effective Fall 2013]

AHAT 210 PREVENTION & CARE OF ATHLETIC INJURIES (4)

Pre-Fall 2012 UMW course: HHP 311 Athletic Training I
This course offers an introduction to the field of athletic training through a combination of lecture and hands-on techniques. The historical background of athletic training, current trends, and administrative responsibilities of athletic trainers will be included in the course. Care and prevention of sports injuries including practical application of wound dressing, basic taping, bandaging, padding, and basic athletic training skills will be presented. The course includes the foundations of sport trauma, mechanism characteristics, classification, prevention, evaluation, and management of specific sports injuries. Assessment of course objectives will be conducted through exams, class assignments, and taping activities. \$60 Course Fee. Prereq: HHP 143 (*KIN 205*); or c/i. (fall)

psychology of sport injuries and illnesses, protective equipment, and program organization and administration. Students are expected to demonstrate comprehension of course content through exams and classroom assignments. Lecture and discussion. Prereq: HHP 311 (*AHAT 210*); or c/i. (spring/odd-numbered years)

AHAT 498 INTERNSHIP /COOPERATIVE EDUCATION (V I-6)

Pre-Fall 2012 UMW course: HHP 479 Sports Medicine Internship
The Sports Medicine Internship incorporates an appropriate work experience into the student's academic preparation. Students are provided with opportunities for hands-on experiences in the field of sports medicine through observation and participation in the profession of Athletic Training. Prereq: Junior/Senior standing, consent of advisor, and c/i. (fall/spring)

AHAT 330 ADVANCED TECHNIQUES IN SPORTS MEDICINE (4)

Pre-Fall 2012 UMW course: HHP 410 Athletic Training II
Advanced knowledge and techniques in athletic training including injury prevention, management skills, training room procedures, therapeutic modalities, nutritional and pharmaceutical considerations,

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ANTH—Anthropology

[For CCN equivalent courses, see appropriate rubric & course listed beneath individual courses]

ANTH 105 INTRODUCTION TO CULTURAL ANTHROPOLOGY (4) (CD)

See *ANTY 220 Culture & Society*

ANTH 219 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i, c/pc, and c/vc. (on demand)

ANTH 220 INTRODUCTION TO RESEARCH METHODS (4)

See *ISSS 220 Quantitative Social Research Methods*

ANTH/HIST/POLS/SOC 221 QUANTITATIVE METHODS FOR SOCIAL SCIENCE (4)

See *ISSS 221 Quantitative Research Methods for Social Science*

ANTH/HIST/POLS/PSY/SOC 222 QUALITATIVE METHODS FOR SOCIAL SCIENCE (4)

See *ISSS 222 Qualitative Research Methods for Social Science*

ANTH 290 INDEPENDENT STUDY (V 1-4)

See *ANTY 292 Independent Study*

ANTH/SOC 315 POLITICAL SOCIOLOGY (4)

See *ISSS 315 Political Sociology*

ANTH 336 MULTICULTURAL IDENTITY (4)

The historical and cross-cultural study of life in a pluralistic society. The self-identity of people according to national and ethnic identities will be examined. Multicultural affairs and institutional equity and diversity are given special attention to align strengths with current and proposed diversity initiatives. Students will participate in supervised research and hands-on experience in institutional settings. Students will be assessed based on class discussions and research projects. Lecture

and small group discussions, and extensive reading assignments.

Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; or c/i. (on demand)

ANTH 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *ANTY 498 Internship/Cooperative Education*

ANTH 409 SEMINAR (4)

See *ANTY 494 Seminar/Workshop*

ANTH 419 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

ANTH/SOC 475 CULTURAL ECOLOGY (4)

See *ISSS 475 Cultural Ecology*

ANTH/SOC 484 ECONOMIC SOCIOLOGY (4)

See *ISSS 484 Economic Anthropology & Sociology*

ANTH/SOC 485 GENDER, ECONOMY, & SOCIAL CHANGE (4)

See *ISSS 485 Gender, Economy, & Social Change*

ANTH 490 INDEPENDENT STUDY (V 1-4)

See *ANTY 492 Independent Study*

ANTH 498 SENIOR PROJECT/THESIS (V 1-15)

See *ANTY 499 Senior Project/Thesis*

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ANTY—Anthropology

[New CCN rubric effective Fall 2011]

ANTY 220 CULTURE & SOCIETY (4) (CD)

Pre-Fall 2011 UMW course: ANTH 105 Introduction to Cultural Anthropology

An introduction to the fundamental concepts of cultural anthropology, as well as a discussion of the origins and development of several contemporary societies. Primary topics include: (a) social, political, and subsistence patterns; (b) intellectual technical, aesthetic, and cultural structures; and (c) this will further be used to study how the environmental, technological, economic core is related to all other aspects of any society including cultural, political, spiritual, or ideological. In addition, students will look at how societies are integrated into ever larger units of social relationships, particularly integration into a world market economy in the 19th and 20th centuries. Students will demonstrate understanding of course content through written critiques and directed examinations. Lecture and small group discussions. (fall/spring)

ANTY 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2011 UMW course: ANTH 290 Independent Study
Directed research or study, with emphasis on experiential learning. Prereq: ANTH 105 (*ANTY 220*), c/i, c/pc, and c/vc. (on demand)

ANTY 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2011 UMW course: ANTH 490 Independent Study
Advanced directed research or study, with emphasis on experiential learning. Students are expected to critically evaluate, analyze, and synthesize selected topics through authorship of an extensive course paper requiring independent research skills. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

ANTY 494 SEMINAR/WORKSHOP (4)

Pre-Fall 2011 UMW course: ANTH 409 Seminar
Selected topics of interest. Prereq: Junior standing and c/i. (Block 6 even-numbered years)

ANTY 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2011 UMW course: ANTH 400 Cooperative Education/Internship
Provides students with an opportunity to incorporate an appropriate extended field experience into their academic program. Field placement options to include all facets of the helping professions. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

ANTY 499 SENIOR PROJECT/THESIS (V 1-15)

Pre-Fall 2011 UMW course: ANTH 498 Senior Project/Thesis

Intended as a culminating experience for the social science degree.

Working with a faculty advisor, the student will generate a product that

demonstrates a competent, independent application of basic social science research skills. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or ISSS 222; and c/i, c/pc, and c/vc. (on demand)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ART—Art

[For CCN equivalent courses, see appropriate rubric & course listed beneath individual courses]

Note: The department reserves the right to exhibit and reproduce students' work submitted for credit. Most art classes require course fees.

ART 101 FUNDAMENTALS OF ART (4)

See ARTZ 100 *Beginning Art*

ART 105 INTRODUCTION TO ART & DESIGN (4)

See ARTZ 101 *Art Fundamentals*

ART 106 INTRODUCTION TO CALLIGRAPHY (4)

See ARTZ 118 *Calligraphy*

ART 140 COLOR & DESIGN (4)

See ARTZ 106 *Visual Language—2-D Foundations*

ART 141 DRAWING (4)

See ARTZ 105 *Visual Language—Drawing*

ART 170 INTRODUCTION TO PHOTOGRAPHY [2-D] (4)

This studio course introduces the basic operation of a 35mm camera and black & white film and printing techniques, and the expressive, conceptual, and communication possibilities of black & white photography as an artistic medium. This course also examines art as an expression of culture and historical context and includes writing exercises in aesthetics and art criticism. \$25 Course Fee. (fall/spring)

ART 211 ART HISTORY I (4)

See ARTH 200 *Art of World Civilization I*

ART 212 ART HISTORY II (4)

See ARTH 201 *Art of World Civilization II*

ART 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ART 225 DIGITAL MEDIA [2-D] (4)

See MART 226 *Introduction to Digital Media 2-D*

ART 231 CERAMICS [3-D] (4)

See ARTZ 231 *Ceramics I*

ART 243 PRINTMAKING [2-D] (4)

See ARTZ 271 *Printmaking I*

ART 247 GLASS [3-D] (4)

See ARTZ 241 *Glass I*

ART 261 WATERCOLOR [2-D] (4)

See ARTZ 224 *Watercolor I*

ART 267 PAINTING [2-D] (4)

See ARTZ 221 *Painting I*

ART 270 PHOTOGRAPHY [2-D] (4) R

This studio course builds upon the technical skills developed in ART 170, with added emphasis upon personal exploration and expression. \$25 Course Fee. Prereq: ART 170. (fall/spring)

ART 271 SCULPTURE [3-D] (4)

See ARTZ 108 *Visual Language—3-D Foundations*

ART 277 FIBERS [3-D] (4)

See ARTZ 267 *Fibers Art I*

ART 290 INDEPENDENT STUDY (V 1-4)

See ARTZ 292 *Independent Study*

ART 311 TOPICS IN ART HISTORY (V 1-4)

Upon successful completion of this course, students will understand the development of art and/or architecture representing a specific theme or period, evaluate the contributions of individual artists and/or architects, and analyze the relationship between artistic expression, style, and cultural values.

ART 325 DIGITAL MEDIA II (4)

See MART 326 *Intermediate Digital Media 2-D*

ART 328 ILLUSTRATION (4)

This course is an introduction to commercial illustration including professional assignments and commercial reproduction techniques. Prereq: ART 141 (ARTZ 105), or ART 225 (MART 226), or ART 261 (ARTZ 224), or ART 267 (ARTZ 221).

ART 331 CERAMICS II (4)

See ARTZ 331 *Ceramics II*

ART 341 DRAWING II (4)

See ARTZ 311 *Drawing II*

ART 342 THE HUMAN FIGURE [2-D] (4)

See ARTZ 211 *Drawing I*

ART 343 PRINTMAKING II (4)

See ARTZ 371 *Printmaking II*

ART 347 GLASS II (4)

See ARTZ 341 *Glass II*

ART 351 METHODS & MATERIALS OF ART (4)

See ARTZ 403 *Teaching Art II—K-12*

ART 367 PAINTING II (4)

See ARTZ 321 *Painting II*

ART 371 SCULPTURE II (4)

See ARTZ 251 *Sculpture I*

ART 377 FIBERS II (4)

See ARTZ 367 *Fiber Art II*

ART 381 ART MEDIA WORKSHOP (V 1-4)

See ARTZ 481 *Computer Art III*

ART 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See ARTZ 498 *Internship/Cooperative Education*

ART 409 SEMINAR (V 1-4)

See ARTZ 494 *Art Seminar*

ART 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc.
(on demand)

Advanced Studio courses are designed for students who wish further experimentation and exploration in media studies beyond introductory and secondary level studio courses. Enrollment in any Advanced Studio (ART 425-470/ARTZ 490) course requires consent of instructor.

ART 425 ADVANCED STUDIO: DIGITAL MEDIA (V 1-4)

See ARTZ 490A Directed Study: Computer Art

ART 428 ADVANCED STUDIO: ILLUSTRATION (V 1-4)

This advanced studio course in Illustration emphasizes the achievement of technical and conceptual student-directed goals toward the creation of an illustration portfolio. Prereq: ART 328 and c/i. (fall/spring)

ART 431 ADVANCED STUDIO: CERAMICS (V 1-4)

See ARTZ 490J Directed Study: Clay

ART 441 ADVANCED STUDIO: DRAWING (V 1-4)

See ARTZ 490C Directed Study: Drawing

ART 443 ADVANCED STUDIO: PRINTMAKING (V 1-4)

See ARTZ 490D Directed Study: Printmaking

ART 447 ADVANCED STUDIO: GLASS (V 1-4)

See ARTZ 490B Directed Study: Glass

ART 467 ADVANCED STUDIO: PAINTING (V 1-4)

See ARTZ 490F Directed Study: Painting

ART 470 ADVANCED STUDIO: PHOTOGRAPHY (V 1-4)

This advanced studio course in Photography emphasizes the achievement of technical and conceptual student-directed goals toward the creation of a body of artwork. Prereq: ART 170, ART 270, and c/i.

ART 471 ADVANCED STUDIO: SCULPTURE (V 1-4)

See ARTZ 490H Directed Study: Sculpture

ART 472 RURAL ARTMOBILE (4)

See ARTZ 491 Special Topics: Rural Artmobile

ART 475 ART APPRENTICESHIP (V 3-12)

See ARTZ 492A Independent Study: Art Apprenticeship

ART 477 ADVANCED STUDIO: FIBERS (V 1-4)

See ARTZ 490K Directed Study: Fibers Art

ART 490 INDEPENDENT STUDY (V 1-4)

See ARTZ 492 Independent Study

ART 498 SENIOR PROJECT/THESIS (V 1-15)

See ARTZ 499 Senior Project/Thesis

ART 499 SENIOR EXHIBIT & THESIS (4)

See ARTZ 499A Senior Exhibit & Thesis

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ARTH—Art: Art History

[New CCN rubric effective Fall 2011]

ARTH 160 GLOBAL VISUAL CULTURE (4)

Pre-Fall 2011 UMW course: FA 101 Introduction to Visual & Performing Arts

Students explore visual arts, music, drama/theatre, and dance with some attention to literature and applied arts. Students read, view, listen, and participate in the arts, learning fundamental vocabulary and concepts, and discussing such questions as: what are the arts; how are the arts created; how and what do arts communicate; and how do the arts reflect society? The depth and quality of their arts observations and reflections, both written and oral, are assessed. \$25 Course Fee. (fall/spring)

ARTH 200 ART OF WORLD CIVILIZATION I (4)

Pre-Fall 2011 UMW course: ART 211 Art History I

This survey course introduces the art and architecture of western culture from pre-history to the 13th century and non-Western cultures. This course includes writing exercises that examine the relationship between artistic expression, style, and cultural values. (spring)

ARTH 201 ART OF WORLD CIVILIZATION II (4)

Pre-Fall 2011 UMW course: ART 212 Art History II

This survey course introduces the art and architecture of Western culture from the 14th to the 20th centuries. This course includes writing exercises that examine the relationship between artistic expression, style, and cultural values. (fall)

ARTH 350 CONTEMPORARY ART & ART CRITICISM (4)

Pre-Fall 2011 UMW course: FA 301 Contemporary Arts Issues

Students explore concerns shared in all of the arts—e.g., the artist and sources of inspiration; artistic freedom; arts as a mirror of society and an influencing force; who's to judge; cutting edge technology; commercialism. Topics are presented in seminar fashion. Significant works of art are analyzed within their cultural and societal context. Students exhibit knowledge and competencies through a variety of writings, presentations, and discussions.

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ARTZ—Art: Visual Arts

[New CCN rubric effective Fall 2011]

ARTZ 100 BEGINNING ART (4)

Pre-Fall 2011 UMW course: ART 101 Fundamentals of Art

This course is intended to provide students with an introductory overview of a variety of visual forms, media, concepts, and theories found in both past and present art practices. It is designed as a series of problems that put principles of two- and three-dimensional design into practical use. These problems stress analytical and creative thinking and self-exploration, and are designed to develop aesthetic sense. The series of assignments—studio work as well as written and oral projects—provide explorative format. Global and multicultural topics are explored through research, presentations by professor and guest artists, visits to galleries,

examination of artifacts, and discussions of contemporary events and issues. \$5 Course Fee. (fall/spring)

ARTZ 101 ART FUNDAMENTALS (4)

Pre-Fall 2011 UMW course: ART 105 Introduction to Art & Design

This course is designed for non-art majors. Upon completion of this class, students will demonstrate the successful application of visual media to the creative and problem-solving processes of identifying and communicating visual messages and personal expression. Students will demonstrate an introductory level understanding of how the visual arts

reflect their cultural and historical context. Students will also demonstrate an introductory level understanding of aesthetics and art criticism as expressed in writing exercises.

ARTZ 105 VISUAL LANGUAGE—DRAWING (4)

Pre-Fall 2011 UMW course: ART 141 Drawing

This studio course introduces rendering skills through the use of a variety of drawing media, and the expressive, conceptual, and communication possibilities of drawing as an artistic medium. This course also examines art as an expression of culture and historical context and includes writing exercises in aesthetics and art criticism. (spring)

ARTZ 106 VISUAL LANGUAGE—2-D FOUNDATIONS (4)

Pre-Fall 2011 UMW course: ART 140 Color & Design

This studio course introduces the formal elements and principles of design, color theory, and spatial control using traditional and digital media with an emphasis on problem-solving. Students will explore career options related to the visual arts. This course also examines art as an expression of culture and historical context and includes writing exercises in aesthetics and art criticism. (fall)

ARTZ 108 VISUAL LANGUAGE—3-D FOUNDATIONS (4)

Pre-Fall 2011 UMW course: ART 271 Sculpture [3-D]

This studio course introduces basic sculpture techniques with various materials, and the expressive, conceptual, and communication possibilities of sculpture as an artistic medium. This course also examines art as an expression of culture and historical context and includes writing exercises in aesthetics and art criticism. \$45 Course Fee. (fall/spring)

ARTZ 118 CALLIGRAPHY (4)

Pre-Fall 2011 UMW course: ART 106 Introduction to Calligraphy

This course is designed for non-art majors. This course introduces calligraphy—the art of beautiful handwriting—with focus on brush and pen techniques and layout. This course also examines calligraphy as an expression of culture and historical context and includes writing exercises in aesthetics and art criticism. \$10 Course Fee.

ARTZ 211 DRAWING I (4)

Pre-Fall 2011 UMW course: ART 342 The Human Figure

This course is an introduction to the visual structure of the human body and the expressive, conceptual, and communication possibilities of the human figure as artistic subject matter. \$40 Course Fee.

ARTZ 221 PAINTING I (4)

Pre-Fall 2011 UMW course: ART 267 Painting [2-D]

This studio course introduces basic opaque painting techniques, and the expressive, conceptual, and communication possibilities of painting as an artistic medium. This course also examines art as an expression of culture and historical context and includes writing exercises in aesthetics and art criticism. \$30 Course Fee. (spring)

ARTZ 224 WATERCOLOR I (4)

Pre-Fall 2011 UMW course: ART 261 Watercolor [2-D]

This studio course introduces basic watercolor painting techniques, and the expressive, conceptual, and communication possibilities of watercolor as an artistic medium. This course also examines art as an expression of culture and historical context and includes writing exercises in aesthetics and art criticism. (fall)

ARTZ 231 CERAMICS I (4)

Pre-Fall 2011 UMW course: ART 231 Ceramics [3-D]

This studio course introduces basic ceramic hand building, throwing, and glazing techniques, and the expressive, conceptual, and communication possibilities of ceramics as an artistic medium. This course also examines art as an expression of culture and historical context and includes writing exercises in aesthetics and art criticism. \$50 Course Fee. (fall/spring)

ARTZ 241 GLASS I (4)

Pre-Fall 2011 UMW course: ART 247 Glass [3-D]

This studio course introduces various glass techniques, and the expressive, conceptual, and communication possibilities of glass as an artistic medium. This course also examines art as an expression of

culture and historical context and includes writing exercises in aesthetics and art criticism. \$60 Course Fee.

ARTZ 251 SCULPTURE I (4)

Pre-Fall 2011 UMW course: ART 371 Sculpture II

This intermediate studio course builds upon the technical and conceptual framework of ART 271/ARTZ 108, with added emphasis upon personal exploration and expression. \$60 Course Fee. Prereq: ART 271 (ARTZ 108). (fall/spring)

ARTZ 267 FIBERS ART I (4)

Pre-Fall 2011 UMW course: ART 277 Fibers [3-D]

This studio course introduces basic fiber techniques with various materials, and the expressive, conceptual, and communication possibilities of fibers as an artistic medium. This course also examines art as an expression of culture and historical context and includes writing exercises in aesthetics and art criticism. \$40 Course Fee.

ARTZ 271 PRINTMAKING I (4)

Pre-Fall 2011 UMW course: ART 243 Printmaking [2-D]

This studio course introduces various printmaking techniques, and the expressive, conceptual, and communication possibilities of printmaking as an artistic medium. This course also examines art as an expression of culture and historical context and includes writing exercises in aesthetics and art criticism. \$30 Course Fee.

ARTZ 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2011 UMW course: ART 290 Independent Study

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ARTZ 311 DRAWING II (4)

Pre-Fall 2011 UMW course: ART 341 Drawing II

This intermediate studio course builds upon the technical and conceptual framework of ART 141/ARTZ 105, with added emphasis upon personal exploration and expression. \$5 Course Fee. Prereq: ART 141 (ARTZ 105).

ARTZ 321 PAINTING II (4)

Pre-Fall 2012 UMW course: ART 367 Painting II

This intermediate studio course builds upon the technical and conceptual framework of ART 261/ARTZ 224 and ART 267/ARTZ 221, with added emphasis upon personal exploration and expression. Prereq: ART 261 (ARTZ 224) or ART 267 (ARTZ 221). (fall/spring)

ARTZ 331 CERAMICS II (4)

Pre-Fall 2011 UMW course: ART 331 Ceramics II

This intermediate studio course builds upon the technical and conceptual framework of ART 231/ARTZ 231, with added emphasis upon personal exploration and expression. \$50 Course Fee. Prereq: ART 231 (ARTZ 231). (fall/spring)

ARTZ 341 GLASS II (4)

Pre-Fall 2011 UMW course: ART 347 Glass II

This intermediate studio course builds upon the technical and conceptual framework of ART 247/ARTZ 241, with added emphasis upon personal exploration and expression. \$60 Course Fee. Prereq: ART 247 (ARTZ 241). (fall/spring)

ARTZ 367 FIBERS ART II (4)

Pre-Fall 2011 UMW course: ART 377 Fibers II

This intermediate studio course builds upon the technical and conceptual framework of ART 277/ARTZ 267, with added emphasis upon personal exploration and expression. Prereq: ART 277 (ARTZ 267).

ARTZ 371 PRINTMAKING II (4)

Pre-Fall 2011 UMW course: ART 343 Printmaking II

This intermediate studio course builds upon the technical and conceptual framework of ART 243/ARTZ 271, with added emphasis upon personal exploration and expression. \$30 Course Fee. Prereq: ART 243 (ARTZ 271). (fall)

ARTZ 403 TEACHING ART II—K-12 (4)

Pre-Fall 2011 UMW course: ART 351 Methods & Materials of Art
Methods, materials, and current research relating to the development of effective art education programs at elementary and secondary levels. \$20 Course Fee. Prereq: ED 120 (*EDU 201*), ED 253 (*EDU 222*), and admission to TEP. (fall)

ARTZ 481 COMPUTER ART III (V 1-4)

Pre-Fall 2011 UMW course: ART 381 Art Media Workshop
This studio course introduces new or unusual techniques and explores their artistic potential for expression and communication.

Advanced Studio courses are designed for students who wish further experimentation and exploration in media studies beyond introductory and secondary level studio courses. Enrollment in any Advanced Studio (ART 425-470/ARTZ 490) course requires consent of instructor.

ARTZ 490A DIRECTED STUDY: COMPUTER ART (V 1-4)

Pre-Fall 2011 UMW course: ART 425 Advanced Studio: Digital Media
This advanced studio course in Computer Art emphasizes the achievement of technical and conceptual student-directed goals toward the creation of a body of artwork. Prereq: ART 225 (*MART 226*), ART 325 (*MART 326*), and c/i. (fall/spring)

ARTZ 490B DIRECTED STUDY: GLASS (V 1-4)

Pre-Fall 2011 UMW course: ART 447 Advanced Studio: Glass
This advanced studio course in Glass emphasizes the achievement of technical and conceptual student-directed goals toward the creation of a body of artwork. \$60 Course Fee. Prereq: ART 247 (*ARTZ 241*), ART 347 (*ARTZ 341*), and c/i. (fall/spring)

ARTZ 490C DIRECTED STUDY: DRAWING (V 1-4)

Pre-Fall 2011 UMW course: ART 441 Advanced Studio: Drawing
This advanced studio course in Drawing emphasizes the achievement of technical and conceptual student-directed goals toward the creation of a body of artwork. Prereq: ART 141 (*ARTZ 105*), ART 341 (*ARTZ 311*), and c/i. (fall/spring)

ARTZ 490D DIRECTED STUDY: PRINTMAKING (V 1-4)

Pre-Fall 2011 UMW course: ART 443 Advanced Studio: Printmaking
This advanced studio course in Printmaking emphasizes the achievement of technical and conceptual student-directed goals toward the creation of a body of artwork. Prereq: ART 243 (*ARTZ 271*), ART 343 (*ARTZ 371*), and c/i. (fall/spring)

ARTZ 490F DIRECTED STUDY: PAINTING (V 1-4)

Pre-Fall 2011 UMW course: ART 467 Advanced Studio: Painting
This advanced studio course in Painting emphasizes the achievement of technical and conceptual student-directed goals toward the creation of a body of artwork. Prereq: ART 261 (*ARTZ 224*); or ART 267 (*ARTZ 221*) and ART 367 (*ARTZ 321*); and c/i. (fall/spring)

ARTZ 490H DIRECTED STUDY: SCULPTURE (V 1-4)

Pre-Fall 2011 UMW course: ART 471 Advanced Studio: Sculpture
This advanced studio course in Sculpture emphasizes the achievement of technical and conceptual student-directed goals toward the creation of a body of artwork. \$50 Course Fee. Prereq: ART 271 (*ARTZ 108*), ART 371 (*ARTZ 251*), and c/i. (fall/spring)

ARTZ 490J DIRECTED STUDY: CLAY (V 1-4)

Pre-Fall 2011 UMW course: ART 431 Advanced Studio: Ceramics
This advanced studio course in Ceramics emphasizes the achievement of technical and conceptual student-directed goals toward the creation of a body of artwork. \$50 Course Fee. Prereq: ART 231 (*ARTZ 231*), ART 331 (*ARTZ 331*), and c/i. (fall/spring)

ARTZ 490K DIRECTED STUDY: FIBERS ART (V 1-4)

Pre-Fall 2011 UMW course: ART 477 Advanced Studio: Fiber Art
This advanced studio course in Fibers emphasizes the achievement of technical and conceptual student-directed goals toward the creation of a body of artwork. Prereq: ART 277 (*ARTZ 267*), ART 377 (*ARTZ 367*), and c/i. (fall/spring)

ARTZ 491 SPECIAL TOPICS: RURAL ARTMOBILE (4)

Pre-Fall 2011 UMW course: Art 472 Rural Artmobile
Designed for the elementary and other K-12 majors. Experience is provided in preparing lessons, teaching classes, and adapting to limited facilities, space, and materials. May be used in place of ED 277. (on demand)

ARTZ 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2011 UMW course: ART 490 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ARTZ 492A INDEPENDENT STUDY: ART APPRENTICESHIP (V 3-12)

Pre-Fall 2011 UMW course: ART 475 Art Apprenticeship
Actual work experience in the studio area selected. The number of credits received is determined by the length of the apprenticeship. (on demand)

ARTZ 494 ART SEMINAR (V 1-4)

Pre-Fall 2011 UMW course: ART 409 Seminar
Selected topics of interest. Prereq: c/i and c/pc. (on demand)

ARTZ 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2011 UMW course: ART 400 Cooperative Education/Internship
Incorporation of an appropriate work experience into the student's academic preparation. Pass/Fail. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

ARTZ 499 SENIOR PROJECT/THESIS (V 1-15)

Pre-Fall 2011 UMW course: ART 498 Senior Project/Thesis
An individual project or thesis closely associated with the student's academic program and career goals. Project/thesis election subject to approval of project or thesis advisor. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

ARTZ 499A SENIOR EXHIBIT & THESIS (4)

Pre-Fall 2011 UMW course: ART 499 Senior Exhibit & Thesis
Upon completion of this course, students will mount a group exhibit of their artwork, write a thesis placing their own work in an artistic, cultural, or historical context, research employment and graduate school options, and develop a portfolio of their work. Pass/Fail. Required for BA: Visual Arts Option Majors.

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ASTR—Astronomy ***[New CCN rubric effective Fall 2010]***

ASTR 110 INTRODUCTION TO ASTRONOMY (4)

Pre-Fall 2010 UMW course: PHYS 240 Astronomy

An introductory course in the nature and structure of the universe including our solar system, stellar structure and evolution, galactic structure, and the large-scale structure of the universe. Day and night

observations will be used along with lab projects to familiarize students with the scientific methods used by astronomers. \$10 Course Fee. Prereq: equivalent of MATH 007 (*M 095*) or higher. (fall/even-numbered years)

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BFIN—Business: Finance ***[New CCN rubric effective Fall 2011]***

BFIN 322 BUSINESS FINANCE (4)

Pre-Fall 2011 UMW course: BUS 341 Business Finance

This course covers elements of the finance function of the organization as well as the financial analysis of decisions including working capital management, acquisition of capital, capital budgeting, cost of capital, and theories of valuation. \$15 Course Fee. Prereq: BUS 242 (*ACTG 202*) grade C- or higher. (fall/spring)

BFIN 420 INVESTMENTS (4)

Pre-Fall 2011 UMW course: BUS 377 Investments

Stocks, bonds, and other investment vehicles and corresponding market institutions. Topics include the institutional structure of the market, current issues in financial markets, investment analysis, portfolio analysis, and modern portfolio theory. Students will participate in a market trading simulation. \$20 Course Fee. Prereq: BUS 242 (*ACTG 202*) and BUS 217. (spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

BGEN—Business: General ***[New CCN rubric effective Fall 2012]***

BGEN 235 BUSINESS LAW (4)

Pre-Fall 2012 UMW course: BUS 280 Business Law

Introduction to the legal process and concepts associated with business in domestic and international transactions. Topics discussed include contracts, UCC, equity, torts, criminal, constitutional law, business organizations, real estate, and estate planning. \$20 Course Fee. Prereq: BUS 217 and COMS 135 (*CAPP 131*). (fall/spring)

statistical methods), how they are used, and in what situations they are most useful. Prereq: COMS 135 (*CAPP 131*), and either MATH 131 (*STAT 121*) or any 100-level Math (*M*). (fall/spring)

BGEN 253 BUSINESS STATISTICS & RESEARCH (4)

Pre-Fall 2012 UMW course: BUS 253 Business Research & Statistical Analysis

This course is designed to develop an understanding of the application of probability and statistics in business and to develop a familiarity with the basic concepts of descriptive and inferential statistics. Students will be acquainted and equipped with both the qualitative and quantitative methodological and statistical issues involved in conducting research in business. Through course lectures, research projects, and class assignments students will learn the basics of a variety of qualitative and quantitative research methods (as well as

BGEN 468 CONTEMPORARY ISSUES IN BUSINESS ETHICS (4)

Pre-Fall 2012 UMW course: BUS 364 Contemporary Issues in Business Ethics

This course covers the significance of contemporary ethical issues affecting business, including the conceptual and practical understanding of ethical decision-making. Topics include social and legal value in business ethics, development of an effective ethics program, conflict resolution, corporate culture, and the role of leadership in managing business ethics. The course covers the legal framework in managing corporate governance as required by the Sarbanes-Oxley Act in implementing and auditing an effective ethics program. The course provides hands-on training in business ethics in a global economy. The course will encourage students to develop their conceptual skills from focused facilitated seminars and hands-on field study oriented-projects. Prereq: Junior standing. (fall)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

BIO—Biological Sciences ***[For CCN equivalent courses, see appropriate rubric & course listed beneath individual courses]***

A prerequisite for any course with a BIO rubric is documented mathematical ability equivalent to MATH 007 Algebra/*M 095 Intermediate Algebra*. Ability can be demonstrated by appropriate college/university credit or ACT/SAT Math score.

BIO 101 INTRODUCTION TO LIFE SCIENCE (4)

See *BIOB 101 Discover Biology*

BIO 111 BIOLOGY I (4)

See *BIOB 160 Principles of Living Systems*

BIO 103 INTRODUCTION TO ETHNOBOTANY (4)

See *BIOO 120 Introduction to Ethnobotany*

BIO 112 BIOLOGY II (4)

See *BIOB 170 Principles of Biological Diversity*

BIO 153 SURVEY OF MONTANA WILDLIFE & HABITATS (4)

See *BIOO 101 Survey of Montana Wildlife & Habitats*

BIO 214 GENERAL BOTANY (4)

See *BIOO 220 General Botany*

BIO 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

BIO 222 INVASIVE SPECIES (4)

See *BIOE 222 Invasive Species*

BIO/MATH 233 BIOSTATISTICS (4)

See *STAT 233 Biostatistics*

BIO 255 CELL BIOLOGY (4)

See *BIOB 260 Cellular & Molecular Biology*

BIO 262 MICROBIOLOGY (4)

See *BIOB 260 General Microbiology*

BIO 270 CONSERVATION BIOLOGY (4)

See *BIOE 250 Conservation Biology*

BIO 273 ENTOMOLOGY (4)

See *BIOO 262 Introduction to Entomology*

BIO 290 INDEPENDENT STUDY (V 1-4)

See *BIOB 292 Independent Study*

BIO/MATH 331 BIOINFORMATICS (4)

See *STAT 331 Bioinformatics; BIOB 487 Bioinformatics*

BIO/MATH 332 ADVANCED FIELD STATISTICS (4)

See *STAT 335 Advanced Field Statistics*

BIO 343 GENETICS (4)

See *BIOB 375 General Genetics*

BIO 355 SYSTEMATIC BOTANY (4)

See *BIOO 435 Plant Systematics*

BIO 371 HUMAN ANATOMY & PHYSIOLOGY (4)

See *BIOH 365 Human Anatomy & Physiology I for Health Professions*

BIO 372 HUMAN ANATOMY & PHYSIOLOGY (4)

See *BIOH 370 Human Anatomy & Physiology II for Health Professions*

BIO 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *BIOB 498 Internship/Cooperative Education*

BIO 409 SEMINAR (V 1-3)

See *BIOB 494 Seminar/Workshop*

BIO 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

BIO 425 MOLECULAR BIOLOGY (4)

See *BIOB 425 Advanced Cell & Molecular Biology*

BIO 450 EVOLUTION (4)

See *BIOB 420 Evolution*

BIO 471 WILDLIFE ECOLOGY & MANAGEMENT (4)

See *WILD 471 Wildlife Ecology & Management*

BIO 473 ORNITHOLOGY (4)

See *BIOO 470 Ornithology*

BIO 475 MAMMALOGY (4)

See *BIOO 475 Mammalogy*

BIO 477 ECOLOGY (4)

See *BIOE 370 General Ecology*

BIO 479 VERTEBRATE ZOOLOGY (4)

See *BIOO 450 Vertebrate Zoology*

BIO 490 INDEPENDENT STUDY (V 1-4)

See *BIOB 492 Independent Study*

BIO 498 SENIOR PROJECT/THESIS (V 1-15)

See *BIOB 499 Senior Thesis/Capstone*

Note: New Common Course Numbering system rubrics and courses are displayed *in italics* throughout this Catalog.

BIOB—Biology: General

[New CCN rubric effective Fall 2010]

A prerequisite for any course with a BIOB rubric is documented mathematical ability equivalent to MATH 007 Algebra/M 095 *Intermediate Algebra*. Ability can be demonstrated by appropriate college/university credit or ACT/SAT Math score.

BIOB 101 DISCOVER BIOLOGY (4)

Pre-Fall 2010 UMW course: BIO 101 Introduction to Life Science
This course is intended for non-science majors. Unifying features of living organisms; diversity of life forms; history and relevance of the study of biology within human society. Lab included. \$20 Course Fee. Prereq: equivalent of MATH 007 (*M 095*) or higher. (fall/spring)

BIOB 160 PRINCIPLES OF LIVING SYSTEMS (4)

Pre-Fall 2010 UMW course: BIO 111 Biology I
This course is intended for science majors. It is designed to help students understand and apply major concepts in molecular and cellular biology including: matter and energy, atomic structure, chemical reactions and chemical bonds, common organic molecules, cell structure and function (prokaryotic and eukaryotic cells), enzymes, major biochemical pathways (photosynthesis and cellular respiration), nucleic acids (DNA and RNA), cell division (mitosis and meiosis), Mendelian genetics,

exchanging materials within the body, and control mechanisms within the body. Students will also examine the scientific method (controlled experiments, hypothesis testing, etc.). Lab included. \$30 Course Fee. Prereq: equivalent of MATH 007 (*M 095*) or higher; or c/i. (fall/spring)

BIOB 170 PRINCIPLES OF BIOLOGICAL DIVERSITY (4)

Pre-Fall 2010 UMW course: BIO 112 Biology II
This course is intended for science majors. It is designed to help students understand and apply major concepts in organismal biology including the diversity, evolution, and ecology of organisms. The origin of life and the evolution of cells, classification and evolution of organisms, major Domains and Kingdoms of life, natural selection and evolution, species diversity, ecosystem organization and energy flow, community interactions, population ecology, and behavioral ecology will be discussed. Lab included. \$20 Course Fee. Prereq: equivalent of MATH

007 (*M 095*) or higher; or c/i. Recommend taking BIO 111 (*BIOB 160*) prior to this course. (fall/spring)

BIOB 260 CELLULAR & MOLECULAR BIOLOGY (4)

Pre-Fall 2010 UMW course: BIO 255 Cell Biology

This experimentally-based course investigates a wide breadth of topics in current cell biology in detail. Much attention is given to the structure and function of cells and cellular macromolecules, biological membranes, cellular metabolism, molecular biology, enzymes, and the cell cycle. The laboratory portions of this course will use novel projects to introduce students to many techniques in current cell biology. Some of these include cell fractionation, protein localization, western blot analysis, centrifugation techniques, and enzyme activity assays. Lab included. This course will meet for an additional 3-hour session one day each week during weeks 1-3 of the block. \$35 Course Fee. Prereq: BIO 111 (*BIOB 160*); or c/i. (fall/spring)

BIOB 290 UNDERGRADUATE RESEARCH (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

BIOB 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2010 UMW course: BIO 290 Independent Study

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

BIOB 375 GENERAL GENETICS (4)

Pre-Fall 2010 UMW course: BIO 343 Genetics

This course focuses on all major aspects of genetics from classical Mendelian inheritance to molecular genetics. Students will become familiar with mechanisms of inheritance and explore how inheritance of genes influences all aspects of life. A portion of the course will focus on human genetics and the influences of genetics on human traits. The laboratory portion of the course will explore genetic principles using yeast, bacteria, and multicellular organisms as well as mutant screens, molecular genetic tools, computer databases, and genomic tools. Lab included. This course will meet for an additional 3-hour session one day each week during weeks 1-3 of the block. \$40 Course Fee. Prereq: BIO 255 (*BIOB 260*) and MATH 131 (*STAT 121*); or c/i. (fall/spring)

BIOB 420 EVOLUTION (4)

Pre-Fall 2010 UMW course: BIO 450 Evolution

A survey of evolutionary theory from its philosophical origins to its present day synthesis. Detailed examination of the mechanisms of natural selection, adaptation, and speciation, as well as the evidence which chronicles the fact of organic evolution through time will comprise the main topics of this course. Lab included. \$15 Course Fee. Prereq: Junior or Senior standing and BIO 343 (*BIOB 375*); or c/i. (fall)

BIOB 425 ADVANCED CELL & MOLECULAR BIOLOGY (4)

Pre-Fall 2010 UMW course: BIO 425 Molecular Biology

This intense, inquiry-based course will explore the mechanisms underlying the central dogma of molecular biology in close detail. Special attention will be given to gene regulation at the transcriptional, translational, and post-translational levels as well as to mechanisms of signal transduction. In addition, a unit of the course will discuss the field of genomics as it relates to identifying and understanding specific regions of DNA sequence. The laboratory portion of this course will allow students to use their own research projects to learn techniques such as DNA isolation, gene cloning, agarose gel electrophoresis, PCR,

restriction enzyme analysis, and many more. Lab included. This course will meet for an additional 3-hour session one day each week during weeks 1-3 of the block. \$40 Course Fee. Prereq: BIO 255 (*BIOB 260*) and Junior standing; or c/i; CHEM 331 (*CHMY 321*) recommended. (spring/even-numbered years)

BIOB 487 BIOINFORMATICS (4)

Pre-Fall 2009 UMW course: MATH/BIO 331 Bioinformatics

This course will cover the basic concepts in this newly emerging field at the interface between mathematics and molecular biology. Students will begin with basic problems of sequence analysis and alignment and move to applications in genomics, phylogenetics, predicting protein structure, analysis of microarray data, and the construction of gene networks in metabolism and development. Students will learn how to access the various databases and write a research proposal in molecular biology that may serve as the basis for thesis work. Prereq: MATH 131 (*STAT 121*) and BIO 255 (*BIOB 260*) grade C- or higher; or c/i. (spring/ odd-numbered years)

BIOB 490 UNDERGRADUATE RESEARCH (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

BIOB 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2010 UMW course: BIO 490 Independent Study

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

BIOB 494 SEMINAR/WORKSHOP (V 1-4)

Pre-Fall 2010 UMW Course: BIO 409 Seminar

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

BIOB 494P SEMINAR: PUBLIC PRESENTATION (1)

2010-11 UMW course: BIOB 495 Internship/Thesis Presentation

Students will prepare and deliver a professional public presentation outlining their work on either an internship or senior thesis. This presentation will generally be performed at the annual spring campus research symposium, or occasionally at another professional venue as approved by the student's advisor. Pass/Fail. Prereq or Coreq: BIO 400 (*BIOB 498*), CHEM 400 (*CHMY 498*), BIO 498 (*BIOB 499*), or CHEM 498 (*CHMY 499*); and c/i. (fall/spring)

BIOB 495 INTERNSHIP/THESIS PRESENTATION (1)

See *BIOB 494P Seminar: Public Presentation*

BIOB 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2010 UMW course: BIO 400 Cooperative Education/ Internship

Incorporation of an appropriate work experience into the student's academic preparation. Prereq: Junior/Senior standing and c/i. (fall/spring)

BIOB 499 SENIOR THESIS/CAPSTONE (V 1-15)

Pre-Fall 2010 UMW course: BIO 498 Senior Project/Thesis

An individual project or thesis closely associated with the student's academic program and career goals. Project/thesis election subject to approval of Biology department advisor. Prereq: Junior/Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed *in italics* throughout this Catalog.

BIOE—Biology: Ecology ***(New CCN rubric effective Fall 2010)***

A prerequisite for any course with a BIOE rubric is documented mathematical ability equivalent to MATH 007 Algebra/M 095 *Intermediate Algebra*. Ability can be demonstrated by appropriate college/university credit or ACT/SAT Math score.

BIOE 222 INVASIVE SPECIES (4)

Pre-Fall 2010 UMW course: BIO 222 Invasive Species

Example animal and plant invasions, both local and around the world, will be used to examine the biological (including ecological and evolutionary) and social issues associated with the growing problem of invasive alien species. Through preparation for class discussion and position papers, students will acquire an in-depth understanding of how politics, economics, and ethics have intertwined to result in continuing environmental degradation by invasives. Through field and/or lab exercises, students will acquire practical knowledge of assessment and control of invasive species, as well as the methods used to gather, validate, and interpret biological data in general. \$35 Course Fee. Prereq: c/i. (on demand)

BIOE 250 CONSERVATION BIOLOGY (4)

Pre-Fall 2010 UMW course: BIO 270 Conservation Biology

The impact of deterministic (nonrandom) and stochastic processes (environmental, catastrophic, genetic, and demographic) on small populations (i.e., threatened and endangered species) will be examined. Discussions cover habitat and population fragmentation, corridors, biodiversity and its measurement, endangered species policy and law, and case studies of extinction; for the latter, ultimate and proximate causal factors of extinction will be discussed. Students without a background in high school biology may want to consider taking BIO 101 (*BIOB 101*) before enrolling in this course. \$25 Course Fee. Prereq: a general education math course (any UMW 100-level or higher M or STAT course); or c/i. Students without a background in high school biology may want to consider taking BIO 101 (*BIOB 101*) or BIO 112 (*BIOB 170*) before enrolling in this course. (spring/~~even~~-numbered years)

BIOE 370 GENERAL ECOLOGY (4)

Pre-Fall 2010 UMW course: BIO 477 Ecology

This course will introduce students to the study and scientific practice of ecology—the relationship between organisms and their environment. Students will consider ecologically interesting questions and develop hypotheses that they will learn to evaluate using a combination of literature review, field studies, and laboratory experiments. Topics include individual, population, community, and ecosystem-level processes (e.g., natural history, population growth and dynamics, life history, competition, predation, diversity, community organization, nutrient cycling, energy flow, and succession). Experiential learning activities include participation in multiple long-term ecological field research projects, development of a student research proposal, and a 3-day field experience in Yellowstone National Park. Students will be assessed based on written exams, data analyses and research proposals, demonstrations of oral communication and teamwork skill in gathering and analyzing ecological data, and the quality of a data collection notebook. \$90 Course Fee. Prereq: BIO 112 (*BIOB 170*); or c/i. (fall)

BIOE 425 WETLANDS ECOLOGY (4)

This course will provide students an understanding of the importance, classification, physical structure, and biological communities unique to wetland ecosystems. Field and laboratory activities include the observation, collection, preservation and/or examination of wetland soils, water, algae, plants, invertebrates, fishes, amphibians, reptiles, birds, and mammals. Wetland management and law, natural versus designed wetlands, wetland ecosystem goods and services, and the biogeography of wetlands around the world will be discussed. Students will be assessed based on written exams, a lab and field practical, a student-produced wetland management paper, written reviews of journal articles, and demonstrations of oral communication skills in class discussions and project presentations. \$25 Course Fee. Prereq: CHEM 131 (*CHMY 141*), CHEM 132 (*CHMY 143*), and either BIO 111 (*BIOB 160*) or BIO 112 (*BIOB 170*); or c/i. (spring/odd-numbered years)

Note: New Common Course Numbering system rubrics and courses are displayed *in italics* throughout this Catalog.

BIOH—Biology: Human ***[New CCN rubric effective Fall 2011]***

A prerequisite for any course with a BIOH rubric is documented mathematical ability equivalent to MATH 007 Algebra/M 095 *Intermediate Algebra*. Ability can be demonstrated by appropriate college/university credit or ACT/SAT Math score.

BIOH 365 HUMAN ANATOMY & PHYSIOLOGY I FOR HEALTH PROFESSIONS (4)

Pre-Fall 2011 UMW course: BIO 371 Human Anatomy & Physiology

Structure and function of body tissues and the circulatory, skeletal, muscular, and nervous systems. Lab included. Students without a background in high school biology may want to consider taking BIO 101 (*BIOB 101*) or BIO 111 (*BIOB 160*) before enrolling in this course. \$25 Course Fee. (fall)

BIOH 370 HUMAN ANATOMY & PHYSIOLOGY II FOR HEALTH PROFESSIONS (4)

Pre-Fall 2011 UMW course: BIO 372 Human Anatomy & Physiology

Structure and function of the endocrine, respiratory, digestive, urinary, and reproductive systems. Lab included. Students without a background in high school biology may want to consider taking BIO 101 (*BIOB 101*) or BIO 111 (*BIOB 160*) before enrolling in this course. \$10 Course Fee. Prereq: BIO 371 (*BIOH 365*); or c/i. (spring)

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BIOM—Biology: Micro ***[New CCN rubric effective Fall 2010]***

A prerequisite for any course with a BIOM rubric is documented mathematical ability equivalent to MATH 007 Algebra/M 095 *Intermediate Algebra*. Ability can be demonstrated by appropriate college/university credit or ACT/SAT Math score.

BIOM 260 GENERAL MICROBIOLOGY (4)

Pre-Fall 2010 UMW course: BIO 262 Microbiology

This course focuses on the structure and biology of microorganisms including *Archaea*, bacteria, fungi, algae, protozoans, and viruses. A partial list of lecture topics includes microbial growth and nutrition, metabolism, microscopy, microbial diseases, and food microbiology. The laboratory investigates many aspects of microbiology including microbial diversity, ecology, water sampling, antibiotic susceptibility, enrichment cultures, as well as more exciting topics. Lab included. \$40 Course Fee. Prereq: BIO 255 (*BIOB 260*). (fall)

BIOM 427 GENERAL PARASITOLOGY (4)

This lab intensive course will give students an understanding of the taxonomy, morphology, life cycles, and ecology of parasitic protozoa, helminths, and arthropods. Laboratory activities include the microscopic examination of preserved and collected specimens as well as a laboratory and/or field-based project that will result in a written report and oral presentation. Students will be assessed based on written exams, laboratory practical exams, and a written report and oral presentation of a laboratory and/or field-based project. \$35 Course Fee. Prereq: BIO 255 (*BIOB 260*) and BIO 477 (*BIOE 370*); or c/i. (spring/even-numbered years)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

BIOO—Biology: Organismal ***(New CCN rubric effective Fall 2010)***

A prerequisite for any course with a BIOO rubric is documented mathematical ability equivalent to MATH 007 Algebra/M 095 *Intermediate Algebra*. Ability can be demonstrated by appropriate college/university credit or ACT/SAT Math score.

BIOO 101 SURVEY OF MONTANA WILDLIFE & HABITATS (4)

Pre-Fall 2010 UMW course: BIO 153 Survey of Montana Wildlife & Habitats

This course is a lower-division survey course of the wildlife species found in Montana. The course intends to introduce students to Montana wildlife, their habitats, field sign and other identification features, vulnerabilities, behavior, and rare and endangered species. \$25 Course Fee. (fall/spring)

BIOO 120 INTRODUCTION TO ETHNOBOTANY (4)

Pre-Fall 2010 UMW course: BIO 103 Introduction to Ethnobotany
Introduction into the discipline of ethnobotany focusing on the role of plants in culture. Field trips to parks and visits with people active in the use of plants will provide opportunities for hands-on experience with techniques and methods used by field ethnobotanists. \$50 Course Fee. (fall)

BIOO 220 GENERAL BOTANY (4)

Pre-Fall 2010 UMW course: BIO 214 General Botany
This experientially-based course will delve into the study of conifers and flowering plants, with emphasis on anatomy, morphology, taxonomy, ethnobotanical uses and evolution. The principles of genetics, ecology, and physiology of various example species will be examined. Assessment will be based on exams, quizzes, case studies, and the development of an ongoing research project. \$50 Course Fee. Prereq: BIO 111 (*BIOB 160*).

BIOO 262 INTRODUCTION TO ENTOMOLOGY (4)

Pre-Fall 2010 UMW course: BIO 273 Entomology
Taxonomy, morphology, behavior, and ecology of representative families of insects. Collection required; students should consult with instructor prior to summer. Lab included. \$25 Course Fee. Prereq: BIO 112 (*BIOB 170*); or c/i. (on demand)

BIOO 340 BIOLOGY & MANAGEMENT OF FISHES (4)

See *WILD 473 Fisheries Ecology & Management*

BIOO 435 PLANT SYSTEMATICS (4)

Pre-Fall 2010 UMW course: BIO 355 Systematic Botany
Techniques for studying, teaching, and interpreting vascular plants, use of taxonomic keys, principles, and rules of nomenclature, and consideration of the taxonomic literature. Includes a botanic and/or interpretive project. \$55 Course Fee. Prereq: BIO 214 (*BIOO 220*). (spring)

BIOO 450 VERTEBRATE ZOOLOGY (4)

Pre-Fall 2010 UMW course: BIO 479 Vertebrate Zoology
Taxonomy, morphology, physiology, ecology, behavior, and evolution of representative vertebrate groups. Students will conduct field and/or laboratory projects and produce written analyses/reports. Lab included. \$25 Course Fee. Prereq: BIO 112 (*BIOB 170*). (spring/odd-numbered years)

BIOO 470 ORNITHOLOGY (4)

Pre-Fall 2010 UMW course: BIO 473 Ornithology
Taxonomy, morphology, physiology, ecology, behavior, and evolution of birds. Labs include study of anatomy and techniques of field identification. Students will conduct field and/or laboratory projects and produce written analyses/reports. \$45 Course Fee. Prereq: BIO 112 (*BIOB 170*). (spring/even-numbered years)

BIOO 475 MAMMALOLOGY (4)

Pre-Fall 2010 UMW course: BIO 475 Mammalogy
Taxonomy, morphology, physiology, ecology, behavior, and evolution of mammals. Field and lab study included. Students will conduct field and/or laboratory projects and produce written analyses/reports. \$35 Course Fee. Prereq: BIO 112 (*BIOB 170*). (fall/even-numbered years)

BMGT—Business: Management

[New CCN rubric effective Fall 2012]

BMGT 210 SMALL BUSINESS ENTREPRENEURSHIP (4)

Pre-Fall 2012 UMW course: BUS 201 Small Business Development
Students will be introduced to startup ventures and how to make them unique. They will explore the legal issues of business startup or expansion, and demonstrate an understanding of the marketing, finance, and management skills necessary for success by creating a business plan. Activities will include some team-based projects. \$20 Course Fee. Prereq: BUS 217 and COMS 135 (*CAPP 131*). (fall/spring)

BMGT 322 OPERATIONS MANAGEMENT (4)

Pre-Fall 2012 UMW course: BUS 355 Operations Management
This course introduces students to the quantitative techniques of operations management used by management in business decision-making. Topics include the study and application of goods and services, chain management, performance, measurement systems, quantitative decision theories, quality concepts, inventory management and project management, and supporting control theories. Course applications include some team-based projects. \$20 Course Fee. Prereq: BUS 253 (*BGEN 253*). (fall/spring)

BMGT 327 RISK MANAGEMENT & INSURANCE (4)

Pre-Fall 2012 UMW course: BUS 327 Risk Management & Insurance
Analysis and treatment of property and liability risks facing firms and consumers. Major emphasis is on recognizing and managing these risks and on utilizing insurance as a financial device. \$20 Course Fee. Prereq: BUS 217 and COMS 135 (*CAPP 131*). (fall/spring)

BMGT 329 HUMAN RESOURCE MANAGEMENT (4)

Pre-Fall 2012 UMW course: BUS 329 Human Resource Management
The course covers strategic human resource planning, job analysis, recruitment and selection, evaluating performance, compensation systems and governmental regulations, behavioral tools and techniques dealing with personnel problems, employee stress management, technostress and organizational burnout, and labor-management relations. The course also covers contemporary issues in human resource management, including global human resource management and analysis and evaluation of collective bargaining issues. \$20 Course Fee. Prereq: BUS 325 (*BMGT 335*). (fall/spring)

BMGT 335 MANAGEMENT & ORGANIZATION (4)

Pre-Fall 2012 UMW course: BUS 325 Principles & Practices of Management
This course covers fundamentals of planning, organizing, directing, and controlling a business organization. Theories, techniques, and practices used in formulating strategies, policies, procedures, and goals of a business are covered. The course will use a multiple set of teaching tools to provide experiential learning including case studies, hands-on field-based real life examples of companies, and teach students how to manage in ways that deliver results—results that customers want and also enable companies to gain the competitive edge. A comprehensive research-based project report is required. \$15 Course Fee. Prereq: BUS 241 (*ACTG 201*), BUS 242 (*ACTG 202*), BUS 280 (*BGEN 235*), BUS 217, and COMS 135 (*CAPP 131*), and ECON 250 (*ECNS 203*). (fall/spring)

BMGT 350 RESORT MANAGEMENT (3)

Pre-Fall 2012 UMW course: HTR 350 Resort Management
This course will acquaint students with modern resort operations. Planning, development, operation, and management practices will be addressed. Student performance will be accomplished through written projects and assignments, as well as written examinations. \$25 Course Fee.

BMGT 353 ORGANIZATIONAL BEHAVIOR (3)

Pre-Fall 2012 UMW course: BUS 326 Organizational Behavior
This course is an investigation of individual, group, and organizational behavior in the multicultural environment. The course will cover theory, research, and selected applications on topics such as organizational structure, technology, communication, ethics and social responsibility, group dynamics, and change and development. Throughout this course, issues and challenges of managing organizations are discussed and illustrated with real-world examples to help students understand the groups and organizations to which they currently belong and of which they will become a part in their later careers. Prereq: BUS 325 (*BMGT 335*) and Junior standing.

BMGT 355 CONVENTION MANAGEMENT (3)

Pre-Fall 2012 UMW course: HTR 355 Meeting Planning
Comprehensive study of conventions, trade shows, and other formal gatherings from the perspectives of both the planner and the facility manager. This course will include site and facility selection, program development, program implementation, and program assessment. Students may be required to spend time at off-campus facilities. \$25 Course Fee. Prereq: Sophomore standing and c/i.

BMGT 362 LABOR RELATIONS & COLLECTIVE BARGAINING (4)

Pre-Fall 2012 UMW course: BUS 469 Labor-Management Relations
This course provides an in-depth understanding and practice of collective bargaining behaviors in both private and public sector organizations. The course is both historical and analytical in its approach and examines relationships between management and organized groups of employees, including labor unions and professional associations, with analysis and assessment of collective bargaining issues, negotiation styles and methods, factors contributing to conflict, and dispute resolution methods including mediation and arbitration. The course covers an analysis of selected international labor relations systems. The course will be centered around creating a lab environment that provides hands-on experiential skills, supplemented by facilitated discussion and field study-oriented projects. Prereq: Junior standing, and either BUS 325 (*BMGT 335*) or BUS 329 (*BMGT 329*); or c/i. (spring)

BMGT 401 EVENT MANAGEMENT (3)

Pre-Fall 2012 UMW course: HTR 345 Special Events
This course encompasses the planning, organizing, conduct, and evaluation of festivals and celebrations. Student performance will be assessed through written examinations, written reports, and demonstration of skills.

BMGT 426 STRATEGIC MANAGEMENT (3)

Pre-Fall 2012 UMW course: BUS 426 Strategic Management
The course will deal with theory and practice of strategic management covering strategy formulation, implementation, and evaluation in various environmental contexts. In today's hypercompetitive marketplace, future managers and leaders must learn to formulate and adapt strategy to become powerful competitors to survive. This course will analyze ingredients of a good strategy and effective methods for implementing that strategy and prepare students to anticipate and respond to the accelerating pace of global competition and technological innovation. This course will benefit future leaders in providing tools to formulate and evaluate new competitive strategies, determine how to lay the groundwork for change, and execute their action plans. Prereq: Junior standing; or c/i. (fall)

BMGT 448 ENTREPRENEURSHIP (4)

Pre-Fall 2012 UMW course: BUS 301 Entrepreneurship
 Entrepreneurial ability is an intangible and very powerful tool for small business owners and managers if they can learn to recognize and manage it, both in themselves as well as in their employees. This course focuses on applying entrepreneurship theory to recognition, hiring, motivation, management, and retention of entrepreneurial employees in order to grow a small business. \$20 Course Fee. Prereq: BUS 325 (*BMGT 335*) and Junior standing. (fall/spring)

BMGT 499 CAPSTONE (4)

Pre-Fall 2012 UMW course: BUS 461 Small Business Management & Strategic Planning
 Analysis of the operations of small businesses and the roles they play in the economy is the focus of this capstone course, which is taken prior to the internship experience. Using a strategic planning context, the following topics are covered: strategic planning, marketing, finance, production, management, legal issues, and technology. Activities, many of which involve teams, include case studies, shadowing, consulting, guest speakers, and simulations. A national standardized exam is administered at the conclusion of this course. \$20 Course Fee. Prereq: Completion of Business Administration core (see page 86). (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

BMIS—Business: Management Information Systems

[New CCN rubric effective Fall 2012]

BMIS 270 MIS FOUNDATIONS FOR BUSINESS (4)

Pre-Fall 2012 UMW course: COMS 205 Business Information Systems
 This course provides an introduction to management information systems that students need to know to be successful in the world of business. Some of the topics covered include: MIS, explaining the role of information systems in supporting organizational strategy and competitive advantage, fundamental IT concepts, hardware and software, database processing, data communications, electronic commerce, ethical implications of information technology, and the basics of networking. Students will be evaluated by oral and written assignments, examinations, and a final project. \$10 Course Fee. (fall)

BMIS 306 BUSINESS INFORMATION SYSTEMS LAB (4)

Pre-Fall 2012 UMW course: COMS 306 Business Information Systems Lab
 Students further develop their expertise in maintaining computer hardware and software by working in a networked computer lab. Students are required to work in the computer lab 60 hours during the

course of the semester. Students must develop an independent contract with their instructor, which further develops their hardware and software expertise. (fall/spring)

BMIS 397 METHODS & MATERIALS IN COMPUTER APPLICATIONS (2)

Pre-Fall 2012 UMW course: COMS 351 Methods & Materials in Computer Applications
 Methods of lesson planning, presentation, skill building, and assessment in computer subjects such as database management, spreadsheets, desktop publishing, telecommunications, word processing, presentation graphics, multimedia, computerized accounting, and programming. Students will demonstrate subject competency through their portfolios and a variety of microteaching experiences. Class discussion, team projects, microteaching, lecture, and electronic media. \$35 Course Fee. Prereq: TEP, and all Business & Computer Applications Education Core courses (see page 122). (fall)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

BMKT—Business: Marketing

[New CCN rubric effective Fall 2012]

BMKT 325 PRINCIPLES OF MARKETING (4)

Pre-Fall 2012 UMW course: BUS 347 Principles & Practices of Marketing
 This course covers an in-depth understanding of marketing concepts and tools. Topics include strategic marketing planning, product and pricing policies, distribution channels, promotion, customization, marketing research, segmenting and targeting markets, services marketing, and international marketing. Using experiential learning techniques, the student will gain hands-on marketing experience through case studies, presentations, and field-based audits of marketing effectiveness of selected companies. \$20 Course Fee. Prereq: COMS 135 (*CAPP 131*) and ECON 250 (*ECNS 203*). (fall/spring)

BMKT 337 CONSUMER BEHAVIOR (4)

Pre-Fall 2012 UMW course: BUS 349 Consumer Behavior
 This course introduces students to internal and external factors that influence buyer behavior in a theoretical and practical manner by considering the disciplines of economics, psychology, and sociology. The course focuses on individual consumer variables such as perception, motivation, learning, personality, and attitude, and group variables such as social class, family, and status symbolism, as well as the buying decisions consumers and groups make and the culture they live in. Throughout the course a special emphasis is placed on the practical application of this knowledge. Prereq: BUS 347 (*BMKT 325*). (fall)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

BUS—Business

[For CCN equivalent courses, see appropriate rubric & course listed beneath individual courses]

BUS 121 BEGINNING KEYBOARDING (1)

Presentation of alphabetic and numeric keyboard, speed and accuracy development on microcomputers, and the basics of using word processing software. (on demand)

BUS 200 COOPERATIVE EDUCATION/INTERNSHIP (V 1-12)

An elective for business students who wish to incorporate within their academic education an appropriate industry work experience. No more than 6 credits in cooperative education will qualify as business electives. Prereq: Sophomore standing and c/i. (fall/spring)

BUS 201 SMALL BUSINESS DEVELOPMENT (3)

See *BMGT 210 Small Business Entrepreneurship*

BUS 202 CUSTOMER SERVICE (3)

Emphasizes the development of good customer service policies and strategies, training personnel for customer service program implementation, evaluation of service procedures, and resolving customer problems and complaints. Customs and manners of foreign cultures will also be addressed. (fall/spring/summer)

BUS 203 MULTICULTURAL LEADERSHIP (4)

This course covers an in-depth understanding of national and global multiculturalism. The course concentrates on both theory and concepts of leadership and their application in resolving economic, ethical, religious, social, political, and scientific conflicts arising from differentiated frameworks used by various cultures. Topics include Multicultural Mentorship—experiential learning to develop individual vision and foster teamwork, multiculturalism and its historical and current dimensions, nationally and globally. The course will include exercises, project work, field studies, web-based research reports, and case studies of real life cultural experiences. The workshop approach focuses on building conflict resolution skills needed to improve the workplace relationships by understanding and applying the concepts of leadership. In practice, students will learn both concepts and techniques of communications, mediation, win-lose and win-win negotiations, and Alternate Dispute Resolution procedures. An added feature of this course is learning creative problem-solving by developing sensitivity to Native American, Hispanic, black American, white American, as well as global cultures including Asia (China, Japan, Korea, Singapore, Taiwan), Latin America, European Union, Middle East, and Africa. Prereq: c/i.

BUS 210 CAREER PLANNING (2)

Taken before or concurrent with the associate degree internship, this course is designed to ease transition into professional field experience and to prepare for career entry following graduation. Students will create resumes and application letters, practice interview techniques, learn job search strategies, and write goals and objectives. They will research contemporary issues in the workplace, use the World Wide Web as a job search tool, and prepare a career portfolio. Students will be evaluated by a lifetime career database, a career portfolio, a practice interview, and participation in class activities. Prereq: Sophomore standing. (fall/spring)

BUS 217 BUSINESS & ELECTRONIC COMMUNICATIONS (4)

As the first required course for all business majors, it establishes the communications foundation for the degree program. Students will learn to write measurable objectives, how to analyze and use case studies, practice writing, speaking, and listening skills through multiple applications, and how to work with a team. The dynamic course is adjusted each term to help meet the expressed objectives of the students. Each student will leave the course with a portfolio showcasing their writing skills. \$15 Course Fee. Prereq: *WRIT 101*. (fall/spring)

BUS 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

BUS 241 FINANCIAL ACCOUNTING (3)

See *ACTG 201 Principles of Financial Accounting*

BUS 242 MANAGERIAL ACCOUNTING (3)

See *ACTG 202 Principles of Managerial Accounting*

BUS 253 BUSINESS RESEARCH & STATISTICAL ANALYSIS (4)

See *BGEN 253 Business Statistics & Research*

BUS 280 BUSINESS LAW (4)

See *BGEN 235 Business Law*

BUS 281 BUSINESS LAW I (3)

Introduction to the legal process and concepts associated with business in domestic and international transactions. Topics discussed: contracts, UCC, equity, torts, criminal, constitutional, and employment law. Prereq: Sophomore standing.

BUS 282 BUSINESS LAW II (3)

Continuation of Business Law I. Topics covered: agency and partnership, corporations, real estate, securities, bankruptcy, wills, trusts, and ethics. Prereq: Sophomore standing.

BUS 290 INDEPENDENT STUDY (V 1-4)

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

BUS 301 ENTREPRENEURSHIP (4)

See *BMGT 448 Entrepreneurship*

BUS 304 LEADERSHIP (4)

The course covers theories, principles, and techniques of effective leadership with an emphasis on the following concepts and skills: strategy formulation, visioning, ethics-building, interpersonal relations (internal & external), group dynamics, team communications, cross-cultural and global issues in leadership; political skills required by effective leaders; change master; negotiation, mediation, stress management, and problem-solving. The course will cover experiential learning exercises, real life case analysis, comparative analysis of political and business leaders, and analysis and presentation of real life current events related to leadership. A detailed field-based project report and case presentations are required. Prereq: BUS 217 and COMS 135 (*CAPP 131*). (fall/spring/summer)

BUS 311 INCOME TAX ACCOUNTING (3)

See *ACTG 401 Principles of Federal Taxation-Individuals*

BUS 317 ADVANCED BUSINESS COMMUNICATIONS (4)

See *WRIT 322 Advanced Business Writing*

BUS 325 PRINCIPLES & PRACTICES OF MANAGEMENT (3)

See *BMGT 335 Management & Organization*

BUS 326 ORGANIZATIONAL BEHAVIOR (3)

See *BMGT 353 Organizational Behavior*

BUS 327 RISK MANAGEMENT & INSURANCE (3)

See *BMGT 327 Risk Management & Insurance*

BUS 329 HUMAN RESOURCE MANAGEMENT (3)

See *BMGT 329 Human Resource Management*

BUS 341 BUSINESS FINANCE (3)

See *BFIN 322 Business Finance*

BUS 347 PRINCIPLES & PRACTICES OF MARKETING (3)

See *BMKT 325 Principles of Marketing*

BUS 349 CONSUMER BEHAVIOR (3)

See *BMKT 337 Consumer Behavior*

BUS 351 METHODS & MATERIALS OF BUSINESS THEORY SUBJECTS (2)

Methods of lesson and unit planning and presentation including student assessment, test design, evaluation, audio/visual technology, and curriculum planning for general business, economics, business law, accounting, career planning, business communications, and business mathematics. Participation in microteaching experiences is required. \$35 Course Fee. Prereq: TEP and Junior standing. (fall)

BUS 355 OPERATIONS MANAGEMENT (3)

See *BMGT 322 Operations Management*

BUS 364 CONTEMPORARY ISSUES IN BUSINESS ETHICS (4)

See *BGEN 468 Contemporary Issues in Business Ethics*

BUS 371 COST ACCOUNTING (3)

See *ACTG 410 Cost/Management Accounting I*

BUS 377 INVESTMENTS (4)

See *BFIN 420 Investments*

BUS 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-12)

Incorporation of an appropriate work experience into the student's academic preparation. Students will develop a learning contract in conjunction with their employer, maintain a portfolio of their work experience, and make a final presentation of their internship to the business faculty as part of their exit interview. Prereq: Senior standing and c/i. (fall/spring/summer)

BUS 401 MANAGING PERSONAL & ORGANIZATIONAL STRESS (4)

The course will provide an in-depth analysis of contemporary stressors, concepts of stress, distress, technostress, job burnout, and technoburnout. Topics include factors leading to personal, social, and organizational stressors in both private and public sector organizations. Topics include practical techniques and tools in managing personal stress as well as organizational stress, physiological, psychological, and organizational consequences of stress and burnout, and prevention and management strategies in a variety of cultural and global settings. The course will provide implications for culture, leadership, employee productivity, and organizational change. Emphasis will be placed on both conceptual and experiential aspects by using role-play and stress coping exercises. Includes project report, presentations, and Internet and field-based research. Prereq: Junior standing, or c/i.

BUS 402 ORGANIZATION & ADMINISTRATION OF BUSINESS EDUCATION PROGRAMS (1)

Organization and operation of distributive and business education programs at the secondary and community college levels. Prereq: c/i. (on demand)

BUS 403 CURRICULUM CONSTRUCTION IN BUSINESS EDUCATION & INDUSTRIAL TECHNOLOGY (2)

See *CTE 403 Curriculum Construction in Business Education & Industrial Technology*

BUS 409 SEMINAR (V 1-3)

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

BUS 410 CAREER PLANNING (2)

Taken before or concurrent with the bachelor degree internship, this course is designed to ease transition into professional field experience and to prepare for career entry following graduation. Students will create resumes and application letters, practice interview techniques, learn job search strategies, and write goals and objectives. They will research contemporary issues in the workplace, use the World Wide Web as a job search tool, and prepare a career portfolio. Students will be evaluated by a lifetime career database, a career portfolio, a practice interview, short reports, and participation in class activities. Prereq: Junior standing.

BUS 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

BUS 426 STRATEGIC MANAGEMENT (3)

See *BMGT 426 Strategic Management*

BUS 461 SMALL BUSINESS MANAGEMENT & STRATEGIC PLANNING (3)

See *BMGT 499 Capstone*

BUS 466 INTERNATIONAL MANAGEMENT (4)

The transformational forces of globalization and technology are radically challenging competitive strategies, business operations, and organizational structures as they are known today. Montana's economy is intimately tied to global business trends, hence this course is intended to provide a unique learning opportunity that is designed to broaden individual horizons, break parochial perspectives, and challenge conventional wisdom. The course will cover theory and practice of international management in a global environment, a firm grasp of Internet-based workgroup capabilities, an in-depth comprehension of global business challenges and opportunities, deeper insights into critical management issues, and greater cross-cultural understanding—in essence, a management tool for practical application for UMW graduates. This course will challenge participants to realize their full leadership potential and become outstanding future managers in the global business environment. Prereq: Junior standing. (fall)

BUS 467 TEAMWORK & ORGANIZATIONAL BEHAVIOR (4)

This course covers an understanding of organizational behavior concepts and tools as applied to the efficient and effective functioning of contemporary organizations in a rapidly changing global environment. The course will provide an in-depth understanding of team formation, team development, team leadership, diversity, and strategic organizational change. The course focuses on the process of organization development as a foundation for teamwork, covering diagnosis, analysis, design interventions, management and evaluation of change. A variety of strategic team leadership and behavioral strategies are covered with special reference to recent trends such as strategic alliances, restructuring, mergers and acquisitions, and outsourcing. This course will be centered around creating a learning environment and encourages students to develop their skills from focused facilitated discussion and hands-on field study-oriented projects. Prereq: BUS 325 (*BMGT 335*) and Junior standing; or c/i. (fall)

BUS 468 STRATEGIC MANAGEMENT OF E-COMMERCE (4)

This course provides a good understanding of the evolving Internet technologies and e-commerce models and explores the business and marketing implications of these new developments. It explores the architectures, technologies, tools, business, and marketing implications of emergence of electronic commerce in the Internet economy. This course will lead students to identify and examine the principles, concepts, and management strategies needed for designing and analyzing the high-performance, scalable, and secure e-commerce systems. Students will be required to participate in class seminars and do assessment presentations of selected e-commerce websites. The course will also cover distinctions between e-business and e-commerce, integration of offline and online marketing systems, and strategic, ethical, and ergonomic issues. A significant research-based project report is required. Prereq: BUS 347 (*BMKT 325*) and Junior standing. (spring)

BUS 469 LABOR-MANAGEMENT RELATIONS (4)

See *BMGT 362 Labor Relations & Collective Bargaining*

BUS 488 FOUNDATIONS OF VOCATIONAL EDUCATION (2)

See *CTE 488 Foundations of Vocational Education*

BUS 490 INDEPENDENT STUDY (V 1-4)

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

BUS 498 SENIOR PROJECT/THESIS (V 1-15)

An individual project or thesis closely associated with the student's academic program and career goals. Project/thesis election is subject to approval by project or thesis advisor. Students will make a final presentation of their senior project/thesis to the business faculty as part of their exit interview. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

CAPP—Computer Applications **[New CCN rubric effective Fall 2009]**

CAPP 100 SHORT COURSES: COMPUTER LITERACY (1)

Pre-Fall 2009 UMW course: COMS 101 Introduction to Computers & Presentations

Students will become informed consumers of hardware and software products, learn basic functions to communicate through technology, and explore legal, social, and ethical computer issues. Students will also learn terminology for technology and software applications used and will be introduced to the campus computer labs, e-mail system, and Learning Management System. Students will also develop a working knowledge of the basic features of Microsoft PowerPoint. Students will be evaluated by hands-on assignments, examinations, and a portfolio. (fall/spring)

CAPP 112 SHORT COURSES: MICROSOFT POWERPOINT (1)

Pre-Fall 2009 UMW course: COMS 104 Beginning PowerPoint

In this hands-on course, students will develop a working knowledge of the basic features of Microsoft PowerPoint. Students will be evaluated by hands-on assignments, examinations, and a final portfolio. (fall)

CAPP 114 SHORT COURSES: MICROSOFT WORD (1)

Pre-Fall 2009 UMW course: COMS 102 Beginning Word Processing

In this hands-on course, students will develop a working knowledge of the basic features of Microsoft Word. At the conclusion of the course, students will have covered the core competencies for the Microsoft Office Specialist exam in Microsoft Word. Students will be evaluated by hands-on assignments, examinations, and a final portfolio. This course is articulated through Tech Prep. (fall/spring)

CAPP 115 SHORT COURSES: ADVANCED MICROSOFT WORD (1)

Pre-Fall 2009 UMW course: COMS 232 Advanced Word Processing

In this hands-on course, students will further develop their competence in word processing using the advanced features of Microsoft Word, such as macros, merges, desktop publishing features, large document creation, and editing. Students will explore integration of Word with other computer application programs. At the conclusion of the course, students will have covered the expert competencies for the Microsoft Office Specialist exam in Word. Students will be evaluated by hands-on assignments, special projects, examinations, and a final portfolio. Prereq: COMS 102 (*CAPP 114*); or c/i. (fall/spring)

CAPP 116 SHORT COURSES: MICROSOFT EXCEL (1)

Pre-Fall 2009 UMW course: COMS 108 Beginning Spreadsheets

In this hands-on course, students will develop a working knowledge of the basic features of Microsoft Excel. At the conclusion of the course, students will have covered the core competencies for the Microsoft Office Specialist exam in Excel. Students will be evaluated by hands-on assignments, examinations, and a final portfolio. This course is articulated through Tech Prep. (fall/spring)

CAPP 118 SHORT COURSES: MICROSOFT ACCESS (1)

Pre-Fall 2009 UMW course: COMS 109 Beginning Database

In this hands-on course, students will develop a working knowledge of the basic features of Microsoft Access. Students will be evaluated by hands-on assignments, examinations, and a final portfolio. (fall/spring)

CAPP 131 BASIC MICROSOFT OFFICE (4)

Pre-Fall 2009 UMW course: COMS 135 Microcomputer Applications

In this hands-on course, students will develop a working knowledge of word processing, spreadsheet, and database management software applications in relation to business. During this course, students will use Windows for file and disk management, e-mail to communicate with the instructor and other class members, and the Internet to research assigned

topics. The course will be evaluated by hands-on assignments, examinations, and a final project. (fall/spring)

CAPP 160 MULTIMEDIA: MICROSOFT PUBLISHER & POWERPOINT (2)

Pre-Fall 2009 UMW course: COMS 234 Multimedia

In this hands-on course, students will use Microsoft Publisher to create a variety of documents and publications including calendars, brochures, and newsletters. Students will also further develop their competence in presentation software by using advanced features of Microsoft PowerPoint, and will learn to use different varieties of digital cameras and their features. At the conclusion of the course, students will have covered the competencies for the Microsoft Office Specialist exam in PowerPoint. Students will be evaluated by hands-on assignments, special projects, examinations, and a final portfolio. Prereq: COMS 101 (*CAPP 100*); or c/i. (fall)

CAPP 251 ADVANCED MICROSOFT OFFICE (4)

Pre-Fall 2009 UMW course: COMS 236 Advanced Microcomputer Applications

In this hands-on course, students will further develop their competence using word processing, electronic spreadsheets, and database features. Students will also explore the integration of computer applications. Students will be evaluated by hands-on assignments, special projects, and examinations. Prereq: COMS 135 (*CAPP 131*). (fall/spring)

CAPP 254 ADVANCED MICROSOFT WORD (4)

Pre-Fall 2009 UMW course: COMS 260 Word Processing & Applications

In this hands-on course, students will develop a working knowledge of the basic and advanced features of Microsoft Word. Students will explore the integration of Word with other computer application programs and learn the basics of voice and hand written recognition software. Students will be evaluated by hands-on assignments, examinations, and a portfolio. At the conclusion of this course, students will have covered the competencies for both the Microsoft Office Specialist exam and Expert exam in Microsoft Word. (fall/spring)

CAPP 258 ADVANCED MICROSOFT ACCESS (3)

Pre-Fall 2009 UMW course: COMS 339 Database Management

In this hands-on course, students will further develop their competence using database management software including creating, searching, querying, and editing database tables, as well as creating reports, on-screen forms, and macros. Students will also explore integration of databases with other application software and creation of Web-enabled information from a database. During this course, students will learn about relational databases and the basics of database design. Students will be evaluated by hands-on assignments, examinations, and a final project. (on demand)

CAPP 266 ADVANCED MICROSOFT EXCEL APPLICATIONS (4)

Pre-Fall 2009 UMW course: COMS 265 Spreadsheets & Applications

In this hands-on course, students will develop a working knowledge of the basic and advanced features of Microsoft Excel. Students will explore the integration of Excel with other computer application programs and be introduced to Quickbooks and Microsoft Access. Students will be evaluated by hands-on assignments, examinations, and a portfolio. At the conclusion of this course, students will have covered the competencies for both the Microsoft Office Specialist exam and Expert exam in Microsoft Excel.

Note: New Common Course Numbering system rubrics and courses are displayed *in italics* throughout this Catalog.

CHEM—Chemistry

[For CCN equivalent courses, see appropriate rubric & course listed beneath individual courses]

A prerequisite for any course with a CHEM rubric is documented mathematical ability equivalent to MATH 007 Algebra/M 095 *Intermediate Algebra*. Ability can be demonstrated by appropriate college credit or ACT/SAT Math score.

CHEM 101 INTRODUCTION TO CHEMISTRY (4)

See CHMY 121 *Introduction to General Chemistry*

CHEM 131 GENERAL CHEMISTRY (4)

See CHMY 141 *College Chemistry I*

CHEM 132 GENERAL CHEMISTRY (4)

See CHMY 143 *College Chemistry II*

CHEM 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

CHEM 251 QUANTITATIVE ANALYSIS (4)

See CHMY 311 *Analytical Chemistry-Quantitative Analysis*

CHEM 290 INDEPENDENT STUDY (V 1-4)

See CHMY 292 *Independent Study*

CHEM 331 ORGANIC CHEMISTRY (4)

See CHMY 321 *Organic Chemistry I*

CHEM 332 ORGANIC CHEMISTRY (4)

See CHMY 323 *Organic Chemistry II*

CHEM 355 PHYSICAL CHEMISTRY (4)

See CHMY 361 *Elements of Physical Chemistry*

CHEM 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See CHMY 498 *Internship/Cooperative Education*

CHEM 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

CHEM/GEOL 431 ENVIRONMENTAL GEOCHEMISTRY (4)

See CHMY/GEOL 431 *Environmental Geochemistry*

CHEM 441 BIOCHEMISTRY (4)

Biochemistry is the chemistry of biological molecules and processes. This course will focus on the chemistry of common biological macromolecules, such as the structure and function of proteins, lipids, nucleic acids, and carbohydrates. In addition, attention will be given to enzymatic processes, metabolic pathways, and energetics. Problem-solving approaches and the current biochemistry literature will often be used to address these topics. Lab included. This course will meet for an additional 3-hour session one day each week during weeks 1-3 of the block. \$40 Course Fee. Prereq: CHEM 332 (CHMY 323) and BIO 255 (BIOB 260) grade C- or higher; or c/i. (spring/odd-numbered years)

CHEM 490 INDEPENDENT STUDY (V 1-4)

See CHMY 492 *Independent Study*

CHEM 498 SENIOR PROJECT/THESIS (V 1-15)

See CHMY 499 *Senior Thesis/Capstone*

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CHMY—Chemistry

[New CCN rubric effective Fall 2009]

A prerequisite for any course with a CHMY rubric is documented mathematical ability equivalent to MATH 007 Algebra/M 095 *Intermediate Algebra*. Ability can be demonstrated by appropriate college credit or ACT/SAT Math score.

CHMY 121 INTRODUCTION TO GENERAL CHEMISTRY (4)

Pre-Fall 2009 UMW course: CHEM 101 Introduction to Chemistry
This class is designed for non-science majors. Students will study the fundamental principles of chemistry in the context of real-world applications to atmospheric and water chemistry. Major fundamental topics covered include atomic structure, chemical bonding, chemical reactions, radiant energy, thermodynamics, acids and bases, and solutions. Most applications are cross-disciplinary with physics, biology, and/or earth sciences. Student learning is evaluated through homework, exams, labs, fieldwork, and research papers. Lab included. \$20 Course Fee. Prereq: equivalent of MATH 007 (M 095) or higher; high school chemistry recommended.

CHMY 141 COLLEGE CHEMISTRY I (4)

Pre-Fall 2009 UMW course: CHEM 131 General Chemistry
Fundamental principles of modern chemistry. Major areas of emphasis include stoichiometry, gas laws, thermochemistry, atomic structure and periodicity, chemical bonding, molecular geometry, and solutions. Lab included. \$30 Course Fee. Prereq: equivalent of MATH 007 (M 095) or higher; high school chemistry or CHEM 101 (CHMY 121) recommended. (fall)

CHMY 143 COLLEGE CHEMISTRY II (4)

Pre-Fall 2009 UMW course: CHEM 132 General Chemistry II
Fundamental principles of modern chemistry. Major areas of emphasis include acid-base and oxidation-reduction reactions, kinetics, chemical

equilibrium, solubility, thermodynamics, nuclear chemistry, organic, and biochemistry. Lab included. \$30 Course Fee. Prereq: CHEM 131 (CHMY 141) grade C- or higher. (spring)

CHMY 290 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

CHMY 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: CHEM 290 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

CHMY 311 ANALYTICAL CHEMISTRY-QUANTITATIVE ANALYSIS (4)

Pre-Fall 2009 UMW course: CHEM 251 Quantitative Analysis
Course in analytical chemistry emphasizing laboratory skills, which include gravimetric, volumetric, and spectrophotometric techniques. Lab included. \$30 Course Fee. Prereq: CHEM 132 (CHMY 143). (on demand)

CHMY 321 ORGANIC CHEMISTRY I (4)

Pre-Fall 2009 UMW course: CHEM 331 Organic Chemistry
Organic compounds and their reactions as the basis of life. Particular attention is paid to nomenclature for the major classes of organic compounds, reaction mechanisms, and a survey of laboratory methods including synthesis and instrumentation. Lab included. \$25 Course Fee.

Prereq: CHEM 132 (*CHMY 143*) grade C- or higher; or c/i. (fall/even-numbered years)

CHMY 323 ORGANIC CHEMISTRY II (4)

Pre-Fall 2009 UMW course: CHEM 332 Organic Chemistry
Organic compounds and their reactions as the basis of life. Particular attention is paid to nomenclature for the major classes of organic compounds, reaction mechanisms, and a survey of laboratory methods including synthesis and instrumentation. Lab included. \$25 Course Fee. Prereq: CHEM 331 (*CHMY 321*) grade C- or higher; or c/i. (spring/odd-numbered years)

CHMY 361 ELEMENTS OF PHYSICAL CHEMISTRY (4)

Pre-Fall 2009 UMW course: CHEM 355 Physical Chemistry
Advanced theoretical study of chemistry. Thermodynamic and kinetic principles will be used to better understand the major conceptual aspects of biochemistry and inorganic and organic chemistry. An attempt will be made to synthesize chemical knowledge obtained in a variety of courses. Prereq: CHEM 132 (*CHMY 143*); or c/i. (on demand)

CHMY/GEO 431 ENVIRONMENTAL GEOCHEMISTRY (4)

Pre-Fall 2009 UMW course: CHEM/GEO 431 Environmental Geochemistry
Students will examine and learn about the chemical and geological principles and reactions in natural systems: aquatic, marine, terrestrial, and atmospheric, and the effect and fate of contaminants in the environment. This is a field- and laboratory-oriented class, with computer analysis of data. Students successfully completing the class will demonstrate their knowledge of geochemical sampling and analysis

techniques in one or more research projects. Students will evaluate their own and/or published data according to concepts studied in the class and present their research in papers and oral reports. Includes exams and teamwork. A field-based research project will require extended class hours during the second and/or third week of class. May have a service-learning component. \$120 Course Fee. Prereq: CHEM 132 (*CHMY 143*), and either GEOL 101 (*GEO 101*) or GEOL 150 (*GEO 103*). (spring/odd-numbered years)

CHMY 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

CHMY 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: CHEM 490 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

CHMY 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2009 UMW course: CHEM 400 Cooperative Education/Internship
Incorporation of an appropriate work experience into the student's academic preparation. Prereq: Junior/Senior standing, c/i, c/pc, and c/vc. (fall/spring)

CHMY 499 SENIOR THESIS/CAPSTONE (V 1-15)

Pre-Fall 2009 UMW course: CHEM 498 Senior Project/Thesis
An individual project or thesis closely associated with the student's academic program and career goals. Project/thesis election subject to approval of project or thesis advisor. Prereq: Junior/Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

COA—Coaching
[New CCN rubric effective Fall 2012]

COA 210 INTRODUCTION TO SPORTS OFFICIATING (2)

Pre-Fall 2012 UMW course: HHP 359 Officiating
This course will prepare students for the professional responsibilities of sports officials. Students will explore concepts in sports at each level of competition. Ethics, motivation, safe game administration, and goal setting will provide a foundation for the beginning official. Students will work to improve strategies for communication, decision-making, conflict management, and time management. Legal responsibilities of sports officials and the importance of professional associations will also be addressed. Assessment strategies will include oral presentation, written assignments, written examinations, and hands-on activities. (fall)

COA 240 COACHING VOLLEYBALL (2)

Pre-Fall 2012 UMW course: HHP 358 Coaching of Volleyball
Emphasis on the methods of teaching and coaching volleyball. Offense and defense, player-coach relationships, team selections, planning practice sessions, and game situations will be areas of concentration. Students will be assessed through class assignments and examinations. (fall)

COA 242 COACHING FOOTBALL (2)

Pre-Fall 2012 UMW course: HHP 355 Coaching of Football
Emphasis on the methods of teaching and coaching football. Offense and defense, player-coach relationships, team selections, planning practice sessions, and game situations will be areas of concentration. Students are assessed through class assignments and examinations. (fall)

COA 245 COACHING BASKETBALL (2)

Pre-Fall 2012 UMW course: HHP 352 Coaching of Basketball
Emphasis on the methods of teaching and coaching basketball. Offense and defense, player-coach relationships, team selections, and game

situations will be areas of concentration. Students are assessed through class assignments and examinations. (spring)

COA 246 COACHING SOFTBALL/BASEBALL (2)

Pre-Fall 2012 UMW course: HHP 354 Coaching of Baseball & Softball
Emphasis on the methods of teaching and coaching baseball and softball. The course focuses on detailed instruction in the knowledge of skills for various events, coaching various styles and techniques, training and conditioning methods, planning for practice sessions, and game situations. Students are expected to demonstrate comprehension through course examinations, out-of-class assignments, and completion of a manual. (spring/odd-numbered years)

COA 256 COACHING TRACK/FIELD (2)

Pre-Fall 2012 UMW course: HHP 353 Coaching of Track & Field
Emphasis on the methods of teaching and coaching track and field events. This course focuses on detailed instruction in the knowledge of skills for various events, coaching various styles and techniques, training and conditioning methods, conducting meets, and their applications to competitive track and field. Students are expected to demonstrate comprehension through course examinations, out-of-class assignments, and completion of a manual. (spring/even-numbered years)

COA 258 COACHING WRESTLING (2)

Pre-Fall 2012 UMW course: HHP 356 Coaching of Wrestling
Emphasis on the methods of teaching and coaching wrestling. Offensive and defensive strategies, player-coach relationships, and planning practice sessions and meets will be areas of concentration. Students are assessed through class assignments and examinations. (on demand)

COA 294 WORKSHOP (V 1-4)

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

COA 305 COACHING: PEDAGOGY, ADMINISTRATION, & ETHICS (4)

Pre-Fall 2012 UMW course: HHP 350 Coaching: Pedagogy, Administration, & Ethics
Scientific approach to coaching youth sport and taking theory into practice. Emphasis is on planning for and applying developmentally and instructionally appropriate instruction, leader qualities, managing the competitive environment, and maximizing the positive contributions of ethical issues of sport competition. Students will demonstrate competency through class participation, examinations, and completion of related assignments and projects. Prereq: Junior standing; or c/i. (spring/even-numbered years)

COA 394 WORKSHOP (V 1-4)

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

COA 494 WORKSHOP (V 1-4)

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

COA 498 INTERNSHIP: COACHING (V 1-4)

Pre-Fall 2012 UMW course: HHP 497 Coaching Internship
An approved off-campus practical experience in coaching through assisting with coaching duties under the direction of a supervising coach. The student is expected to demonstrate knowledge, understanding, and comprehension of coaching by completing a field manual. The supervising coach will submit an evaluation of the student's performance. Prereq: HHP 311 (*AHAT 210*), corresponding coaching techniques class, and c/i. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

COMS—Computer Science

[For CCN equivalent courses, see appropriate rubric and number listed beneath individual courses]

COMS 101 INTRODUCTION TO COMPUTERS & PRESENTATIONS (1)

See *CAPP 100 Short Courses: Computer Literacy*

COMS 102 BEGINNING WORD PROCESSING (1)

See *CAPP 114 Short Courses: Microsoft Word*

COMS 104 BEGINNING POWERPOINT (1)

See *CAPP 112 Short Courses: Microsoft PowerPoint*

COMS 108 BEGINNING SPREADSHEETS (1)

See *CAPP 116 Short Courses: Microsoft Excel*

COMS 109 BEGINNING DATABASE (1)

See *CAPP 118 Short Courses: Microsoft Access*

COMS 111 PROGRAMMING FUNDAMENTALS (3)

See *CSCI 110 Programming with Visual Basic I*

COMS 112 ADVANCED PROGRAMMING (3)

Continuation of useful programming techniques using a variety of languages. Prereq: COMS 111 (*CSCI 110*). (on demand)

COMS 115 COMPUTER BASICS FOR EDUCATORS (4)

In this hands-on course, students will develop a working knowledge of the basic features of the Microsoft Office Suite. Students will be evaluated by hands-on assignments, examinations, and a final portfolio. (fall/spring)

COMS 135 MICROCOMPUTER APPLICATIONS (3)

See *CAPP 131 Basic Microsoft Office*

COMS 176 INTRODUCTION TO ROUTER TECHNOLOGY (CISCO II) (4)

See *ITS 176 Introduction to Router Technology*

COMS 201 COMPUTER PROGRAM APPLICATION (V 1-2)

Special problems in programming. Prereq: COMS 111 (*CSCI 110*). (on demand)

COMS 205 BUSINESS INFORMATION SYSTEMS (4)

See *BMIS 270 MIS Foundations for Business*

COMS 210 COMPUTER HARDWARE & SOFTWARE MANAGEMENT (4)

See *ITS 205 Computer Hardware & Software Management*

COMS 212 INTRODUCTION TO WEB DESIGN (4)

This project-based course introduces students to the basic concepts related to designing websites. Students will be creating sites with website development software and HTML. They learn and follow the steps to create a website by planning, designing, and developing. Students will be evaluated by hands-on projects and examinations. (fall)

COMS 215 INTRODUCTION TO C PROGRAMMING (3)

See *CSCI 112 Programming With C I*

COMS 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

COMS 226 ROUTING & SWITCHING (CISCO III) (4)

See *ITS 258 Routing & Switching*

COMS 232 ADVANCED WORD PROCESSING (1)

See *CAPP 115 Short Courses: Advanced Microsoft Word*

COMS 234 MULTIMEDIA (2)

See *CAPP 160 Multimedia: Microsoft Publisher & PowerPoint*

COMS 235 VIDEO & AUDIO DESIGN (4)

In this project-based introductory course, students will gain the competencies to create video and audio projects. Skills developed in this course will be design of video and audio projects, capturing and editing video and audio, podcasts, communication through a digital media, and project management. Students will be evaluated on hands-on projects and examinations. (spring/odd-numbered years)

COMS 236 ADVANCED MICROCOMPUTER APPLICATIONS (4)

See *CAPP 251 Advanced Microsoft Office*

COMS 238 ADVANCED SPREADSHEETS (2)

In this hands-on course, students will further develop their competence in electronic spreadsheets by using the advanced features of Microsoft Excel, such as financial and trigonometric functions, macros, data tables, solver, and scenario management. Students will explore integration of Excel with other computer application programs and be introduced to QuickBooks software. At the conclusion of the course, students will have covered the expert competencies for the Microsoft Office Specialist exam in Excel. Students will be evaluated by hands-on assignments, special projects, examinations, and a final portfolio. (fall/spring)

COMS 240 ROBOTICS IN EDUCATION (1)

This hands-on course will give students the fundamentals of robotics and its use and benefit in the classroom. It will expand students' knowledge of Lego programming, curriculum integration of educational robots, and hardware components, and it will explore the impact of robots throughout different curriculum areas. Prereq: COMS 115 or equivalent COMS courses; or c/i. (on demand)

COMS 242 DIGITAL PRINT MEDIA (4)

In this project-based course, students will gain competencies in communication skills in print and graphic design. Through hands-on activities, students will learn how to create interactive documents meant for digital publication. Students will be evaluated on hands-on projects and examinations. (spring/even-numbered years)

COMS 245 PROGRAMMING FOR WEB APPLICATIONS (3)

This course introduces Internet and intranet programming languages such as HTML, PERL, and JavaScript in the context of building Internet and World Wide Web applications. This course will focus on best practices enabled by each tool. (on demand)

COMS 260 WORD PROCESSING & APPLICATIONS (4)

See *CAPP 254 Advanced Microsoft Word*

COMS 265 SPREADSHEETS & APPLICATIONS (4)

See *CAPP 266 Advanced Microsoft Excel Applications*

COMS 270 FUNDAMENTALS OF YEARBOOK LAYOUT (2)

Students will be introduced to the fundamentals of creating a yearbook including but not limited to the basics of digital photography, scanning, designing, creating, and editing yearbook layouts, and using the basic functions of Adobe InDesign. Yearbook Editors must be enrolled in this course. Prereq: COMS 101 (*CAPP 100*) or equivalent.

COMS 276 NETWORK DESIGN (CISCO IV) (4)

See *ITS 270 Network Design*

COMS 290 INDEPENDENT STUDY (V 1-4)

See *ITS 292 Independent Study*

COMS 302 DATA STRUCTURES (3)

Examination of software for file processing, searches and sorts, data retrieval, stacks, linked lists, trees, graphics, and generalized database structures. Prereq: COMS 111 (*SCCI 110*) and COMS 112. (on demand)

COMS 306 BUSINESS INFORMATION SYSTEMS LAB (4)

See *BMIS 306 Business Information Systems Lab*

COMS 325 DIGITAL GRAPHICS & ANIMATION DESIGN (4)

This project-based course will introduce students to the concepts of creating graphics and animations for the web. Students will design images for background, text, graphics, navigation, and animation. Students will gain competencies in using colors, file formats, and compression methods. Students will be evaluated on hands-on projects and examinations. \$15 Course Fee. (spring/odd-numbered years)

COMS 334 ADVANCED MULTIMEDIA (2)

In this hands-on course, students will use a variety of hardware, software, and input/output media to complete multimedia projects including web pages, electronic presentations and portfolios, and printed publications. Students will be evaluated by hands-on assignments, special projects, examinations, and a final portfolio. Prereq: COMS 101 (*CAPP 100*) and COMS 234 (*CAPP 160*); or c/i. (on demand)

COMS 335 ADVANCED WEB DESIGN (4)

In this project-based course, students will use current web code to design web publications. Coding techniques such as CSS, Dynamic HTML, and JavaScript will be used in the course. Students will be evaluated on hands-on projects and examinations. Prereq: COMS 212. (spring/even-numbered years)

COMS 339 DATABASE MANAGEMENT (3)

See *CAPP 258 Advanced Microsoft Access*

COMS 351 METHODS & MATERIALS IN COMPUTER APPLICATIONS (2)

See *BMIS 397 Methods & Materials in Computer Applications*

COMS 370 YEARBOOK DESIGN & PUBLICATION LAYOUT (3)

Students will use a variety of publication layouts to complete UMW's yearbook. Students will complete photo analyses, use photo enhancing software to edit images, study the basics of publication layout and design, and use the advanced features of Adobe InDesign. Yearbook Editors must be enrolled in this course. Prereq: COMS 270; or c/i.

COMS 387 TELECOMMUNICATIONS (3)

See *ITS 360 Business Telecommunications & Networking*

COMS 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *ITS 498 Internship/Cooperative Education*

COMS 403 SYSTEMS ANALYSIS & DESIGN (4)

See *ITS 403 Systems Analysis & Design*

COMS 409 SEMINAR (V 1-3) R

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

COMS 410 CAPSTONE PROJECT (4)

This hands-on course will integrate all competencies gained during the Web & Digital Media courses to complete an individual project. This course will include discussions about professional and ethical issues related to the discipline of Web & Digital Media Development. Students will be evaluated on the hands-on project created in class. Prereq: ART 140 (*ARTZ 106*), COMS 205 (*BMIS 270*), COMS 210 (*ITS 205*), COMS 212, COMS 235, COMS 242, COMS 325, and COMS 335; or c/i.

COMS 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

COMS 420 CERTIFICATIONS IN HARDWARE, SOFTWARE, & NETWORKING (4)

2010-12: *ITS 420 Certifications in Hardware & Software*;
Effective 2012-13: *ITS 420 Certifications in Software*

COMS 490 INDEPENDENT STUDY (V 1-4)

See *ITS 492 Independent Study*

COMS 498 SENIOR PROJECT/THESIS (V 1-15)

An individual project or thesis closely associated with the student's academic program and career goals. Student works with one selected faculty member. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring/summer)

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COMX—Communication

[New CCN rubric effective Fall 2012]

COMX 217 ORAL INTERPRETATION OF LITERATURE (4)

Pre-Fall 2012 UMW course: ENG 112 Performing Literary Texts

This class has a dual purpose: to guide students in finding their “voice” and confidence while speaking in front of a group and to explore various modes for performing literary texts. Primary topics include analysis of literary modes and styles, communication objectives of the writer and speaker, and intellectual and emotional interpretation. Practical skills will include vocal production, facial and body expression, memory

enhancement, and visualization. In addition, the course will cover strategies to lessen and control performance anxiety. Teaching and learning techniques will include occasional lecture, speaking/listening exercises and imagination building games, rehearsal techniques, oral presentations, and performance analyses. It is recommended for anyone who needs a speech component, future educators, and those who wish to improve their speaking and interpretive skills. (fall)

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CRWR—Creative Writing

[New CCN rubric effective Fall 2012]

CRWR 240 INTRODUCTION TO CREATIVE WRITING WORKSHOP (4)

Pre-Fall 2012 UMW course: ENG 204 Creative Writing Workshop

The student will be introduced to a variety of creative writing genres including, but not exclusive to, fiction, nonfiction, scriptwriting/ playwriting, and poetry. The course will include the reading of texts in the various areas. Prereq: ENG 102 (*WRIT 101*); or c/i. (fall/spring)

CRWR 310 INTERMEDIATE FICTION WORKSHOP (4)

Pre-Fall 2012 UMW course: ENG 302 Fiction Workshop

A writing workshop that focuses on the techniques of writing fiction. This course will involve the critical analysis of students’ writing, as well as reading and discussing the genre under study. Prereq: ENG 204 (*CRWR 240*); or c/i. (spring)

CRWR 311 INTERMEDIATE POETRY WORKSHOP (4)

Pre-Fall 2012 UMW course: ENG 301 Poetry Workshop

A writing workshop that focuses on the techniques of writing poetry. This course will involve the critical analysis of students’ writing as well as reading and discussing the genre under study. Prereq: ENG 204 (*CRWR 240*); or c/i. (fall)

CRWR 312 INTERMEDIATE NONFICTION WORKSHOP (4)

Pre-Fall 2012 UMW course: ENG 303 Nonfiction Workshop

A writing workshop that focuses on the techniques of writing nonfiction. This course will involve the critical analysis of students’ writing, as well as reading and discussing the genre under study. Prereq: ENG 204 (*CRWR 240*); or c/i. (spring)

CRWR 410 ADVANCED FICTION WORKSHOP (4)

Pre-Fall 2012 UMW course: ENG 402 Advanced Fiction Workshop

This course encourages students to continue their study of fiction writing, leading them to refine their work in narrative, dialogue, character development, plot, etc., while providing them with a ground within the tradition of fiction writing upon which to build and experiment. Prereq: ENG 302 (*CRWR 310*); or c/i. (spring)

CRWR 411 ADVANCED POETRY WORKSHOP (4)

Pre-Fall 2012 UMW course: ENG 401 Advanced Poetry Workshop

This course encourages students to continue their study of poetry writing, leading them to define their poetic voices while providing them with a ground within the poetic tradition upon which to build and experiment. This course will involve students in lecture, group discussions, and readings. Prereq: ENG 301 (*CRWR 311*); or c/i. (fall)

CRWR 412 ADVANCED NONFICTION WORKSHOP (4)

Pre-Fall 2012 UMW course: ENG 403 Advanced Nonfiction Workshop

This course encourages students to continue their study of nonfiction writing, leading them to refine their prose while providing them a ground within the tradition of nonfiction writing upon which to build and experiment. Students will be involved in group readings and discussions of the works under study. Prereq: ENG 303 (*CRWR 312*); or c/i. (spring)

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CSCI—Computer Science/Programming

[New CCN rubric effective Fall 2011]

CSCI 110 PROGRAMMING WITH VISUAL BASIC I (3)

Pre-Fall 2011 UMW course: COMS 111 Programming Fundamentals

This course reviews the problem-solving techniques and strategies utilized in computer programming. Visual BASIC is the primary language employed, but students may also work with other languages. Students will design applications, use variables and constants, create selection and repetition structures, use dialog boxes, random access files, database access, and variable arrays. This course may also be offered as an online course. This course is articulated through Tech Prep. Prereq: COMS 101 (*CAPP 100*), and either MATH 101 (*M 128*) or MATH 131 (*STAT 121*). (fall)

CSCI 112 PROGRAMMING WITH C I (3)

Pre-Fall 2011 UMW course: COMS 215 Introduction to C Programming

Students in this course examine the C programming language and its rise in popularity as one of the leading structured languages. Topics include data types and structures, design of library functions, file interfacing, pointers, and control of program flow. Students will also compare C with other languages utilizing similar syntax. Prereq: COMS 111 (*CSCI 110*). (spring)

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CSTN—Construction Trades ***[New CCN rubric effective Fall 2013]***

CSTN 120 CARPENTRY BASICS ROUGH-IN FRAMING (4)

Pre-Fall 2013 UMW course: IT 350 Structural Analysis & Construction Technology

This course will introduce the student to the different components used for residential floor systems (joists, rim joists, hangers, etc.), wall

systems (king studs, trimmer studs, headers, wall plates, rough sills, etc.), roof systems (both truss and rafter), with an emphasis placed on platform framing. Students will have the opportunity to participate in live work as the lab portion of this construction class. \$30 Course Fee. Prereq or Coreq: IT 240 or CSTN 110. (fall)

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CTE—Career & Technical Education ***[New CCN rubric effective Fall 2012]***

CTE 403 CURRICULUM CONSTRUCTION IN BUSINESS EDUCATION & INDUSTRIAL TECHNOLOGY (2)

Pre-Fall 2012 UMW course: BUS 403 Curriculum Construction in Business Education & Industrial Technology
Principles of selecting, evaluating, and presenting curriculum materials for business education and industrial technology. Prereq: c/i. (on demand)

CTE 488 FOUNDATIONS OF VOCATIONAL EDUCATION (2)

Pre-Fall 2012 UMW course: BUS 488 Foundations of Vocational Education
Provides an understanding of the history of vocational education and philosophy, relates the philosophy of vocational education to the goals and methods used in business and industrial technology instruction, and presents strategies for developing partnerships with business/industry.

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DANC—Dance ***[New CCN rubric effective Fall 2010]***

DANC 285 DANCE & RHYTHM METHODS & TECHNIQUES I (1)

Pre-Fall 2010 UMW course: HHP 205 Dance & Rhythm Methods & Techniques I
Methods of teaching a variety of folk and square dance activities for K-12 programming. Emphasis will be on development and analysis of skills, progressions, error analysis and correction, teaching techniques, unit planning, and assessment. Students will demonstrate competency through class participation, peer teaching, examinations, and projects. \$5 Course Fee. (fall)

DANC 286 DANCE & RHYTHM METHODS & TECHNIQUES II (1)

Pre-Fall 2010 UMW course: HHP 206 Dance & Rhythm Methods & Techniques II
Methods of teaching a variety of social, contemporary, and modern dance activities for K-12 programming. Emphasis will be on development and analysis of skills, progressions, error analysis and correction, teaching techniques, unit planning, and assessment. \$5 Course Fee. (spring)

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DDSN—Drafting Design ***[New CCN rubric effective Fall 2013]***

DDSN 114 INTRODUCTION TO COMPUTER-AIDED DRAFTING (3)

Pre-Fall 2013 UMW course: IT 135 Computer-Aided Drafting
This course provides students introductions to computer-aided design software. AutoCAD and/or Revit are featured software using a 2-D

medium with emphasis on features, limitations, and considerations associated with the commands and characters. IT 130 strongly suggested. \$20 Course Fee. (fall/spring)

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DR—Drama ***[For CCN equivalent courses, see appropriate rubric & course listed beneath individual courses]***

DR 101 DRAMA FUNDAMENTALS (2/4)

See *THTR 101 Introduction to Theatre*

DR 217 THEATRE PRACTICUM (V 1-2) R-3

See *THTR 205 Theatre Workshop II*

DR 219 DIRECTED STUDY (V 1-5)

Upon successful completion of the course, students exhibit fundamental competencies through written documentation or participation in performance/production of one or more areas of drama such as stage management or dramaturgy. Prereq: c/i, c/pc, and c/vc. (fall/spring)

DR 241 PLAY PRODUCTION & INTRODUCTION TO DIRECTING (4) R
See *THTR 276 Play Production & Introduction to Directing*

DR 243 STAGECRAFT & COSTUME (4)
See *THTR 202 Stagecraft I: Lighting & Costumes*

DR 276 ACTING FUNDAMENTALS & STYLES (4)
See *THTR 120 Introduction to Acting I*

DR 290 INDEPENDENT STUDY (V 1-4)
See *THTR 292 Independent Study*

DR 346 DRAMA FOR YOUTH (2)
See *THTR 338 Drama for Youth*

DR 351 CLASSROOM DRAMA METHODS (2)
2010-11 UMW course: *THTR 397 Methods: Drama for K-12;*
Effective 2011-12: *EDU 397D Methods: K-12 Drama*

DR 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)
See *THTR 498 Internship/Cooperative Education*

DR 401 CREATIVE DRAMA METHODS (2)
See *THTR 401 Creative Drama/Improviation*

DR 409 SEMINAR (V 1-4) R
See *THTR 494 Seminar/Workshop*

DR 419 DIRECTED STUDY (V 1-5)
Topics are selected and study is organized according to needs of 1-5 students; the study may duplicate a catalog course that is not being offered that particular term. Learner outcomes are devised according to the topic and determined in accordance with the needs and interests of the student. Prereq: c/i, c/pc, and c/vc. (on demand)

DR/ENG 441 DRAMA HISTORY & LITERATURE GENRE (4)
See *LIT 441 Drama History & Literature Genre*

DR/ENG 455 SHAKESPEARE (4)
See *LIT 473 Studies in Shakespeare*

DR 460 ADVANCED DIRECTING (4)
See *THTR 479 Directing for the Community & Schools*

DR 466 STORYTELLING (2)
See *THTR 435 Storytelling*

DR 490 INDEPENDENT STUDY (V 1-4)
See *THTR 492 Independent Study*

DR 498 SENIOR PROJECT/THESIS (V 1-15)
See *THTR 499 Senior Thesis/Capstone*

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ECNS—Economics ***[New CCN rubric effective Fall 2009]***

ECNS 101 ECONOMIC WAY OF THINKING (3)
Pre-Fall 2009 UMW course: ECON 151 Introduction to Economics
This course will provide the background necessary to understand the operation of the U.S. economy. Topics will include an understanding of decision-making processes for the consumer, the firm, the market, and the overall economy. The methodology for application of these concepts to personal and social issues will be emphasized. The method of delivery will include lecture, group interaction and discussion, computerized simulations, and the use of the Internet as a means of gaining access to information sources. [This course will not substitute for ECON 251 (*ECNS 202*) or ECON 252 (*ECNS 201*) for the Social Science Broadfield or Business & Computer Applications Secondary Education degrees.] (on demand)

ECNS 201 PRINCIPLES OF MICROECONOMICS (4)
Pre-Fall 2009 UMW course: ECON 252 Principles of Microeconomics
An introduction to microeconomics: theory of the firm and household, market price determination, theory of production, elements of value, and distribution theory. Students will be expected to apply microeconomic theory to personal and business decision-making. The method of delivery will include lecture, group interaction and discussion, computerized simulations, and the use of the Internet as a means of gaining access to information sources. Students will be assessed by means of essay examinations, research papers, and computerized simulations. Prereq: Sophomore standing; or c/i. (fall/spring)

ECNS 202 PRINCIPLES OF MACROECONOMICS (4)
Pre-Fall 2009 UMW course: ECON 251 Principles of Macroeconomics
An introduction to macroeconomics: national income analysis, unemployment, price stability and growth, monetary and fiscal policies, and international trade and finance. Students will be expected to analyze current economic issues using a macroeconomic model. The method of delivery will include lecture, group interaction and discussion, computerized simulations, and the use of the Internet as a means of gaining access to information sources. Students will be assessed by

means of essay examinations, research papers, and computerized simulations. Prereq: Sophomore standing; or c/i. (fall)

ECNS 203 PRINCIPLES OF MICROECONOMICS & MACROECONOMICS (4)
Pre-Fall 2009 UMW course: ECON 250 Principles of Economics
This course provides an introduction to both macro- and micro-economics including supply and demand theory, prices and unemployment, aggregate demand and supply and GDP, fiscal and monetary policy, international trade and finance, and theory of production and distribution. Students are expected to collect, analyze, and present economic data using application-based exercises.

ECNS 290 UNDERGRADUATE RESEARCH (V 2-8)
Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ECNS 292 INDEPENDENT STUDY (V 1-4)
Pre-Fall 2009 UMW course: ECON 290 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ECNS 313 MONEY & BANKING (3)
Pre-Fall 2009 UMW course: ECON 357 Money & Banking
Nature, evolution, and functions of money; the role of depository institutions; structure of financial markets; principles of central banking; monetary theory and the instruments of monetary policy; the role of money in the international economy. Students will be able to demonstrate how individual and central banks operate to facilitate personal, business, and international transactions while maintaining national stability. The method of delivery will include lecture, group interaction and discussion, computerized simulations, and use of the Internet as a means of gaining access to information sources. Students will be assessed by means of essay examinations, research papers, and

computerized simulations. Prereq: ECON 250 (*ECNS 203*), or ECON 251 (*ECNS 202*), or ECON 252 (*ECNS 201*); or c/i. (spring)

ECNS 332 ECONOMICS OF NATURAL RESOURCES (4)

Pre-Fall 2009 UMW course: ECON 434 Resource Economics

Analysis of methods of resource valuation, trade-offs involved in their preservation or development, and application of these methods to land-use planning. Analysis of policy implications of environmental legislation. Students will be able to demonstrate their understanding of the principles in the development of land-use plans and environmental impact statements. The method of delivery will include lecture, group interaction and discussion, computerized simulations, and use of the Internet as a means of gaining access to information sources. Students will be assessed by means of essay examinations, research papers, and computerized simulations. \$20 Course Fee. Prereq: ECON 250 (*ECNS 203*). (fall/spring)

ECNS 334 ECONOMICS OF TOURISM & RECREATION (3)

Pre-Fall 2009 UMW course: ECON 334 Economics of Tourism & Recreation

Analysis of the economic role of tourism at the state, regional, national, and international levels. Students will be able to analyze the economic role of the firm engaged in tourism and will be able to assess the impacts of tourism by means of input/output analysis. The method of delivery will include lecture, group interactions and discussion, computerized simulations, and use of the Internet as a means of gaining access to information sources. Students will be assessed on the basis of group projects and essay examinations. Prereq: ECON 250 (*ECNS 203*), or ECON 251 (*ECNS 202*), or ECON 252 (*ECNS 201*); or c/i. (fall)

ECNS 431 INTERNATIONAL TRADE (3)

Pre-Fall 2009 UMW course: ECON 358 International Trade & Finance
Principles of trade and finance in a world economy. Analysis of comparative advantage, impediments to trade, and international financial systems. Students will be able to demonstrate the advantages and

problems of trade on an international level, institutions developed to facilitate trade and finance, and the functioning of major international financial institutions. The method of delivery will include lecture, group interaction and discussion, computerized simulations, and use of the Internet as a means of gaining access to information sources. Students will be assessed by means of essay examinations, research papers, and computerized simulations. Prereq: ECON 250 (*ECNS 203*), or ECON 251 (*ECNS 202*), or ECON 252 (*ECNS 201*). (fall/spring)

ECNS 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

ECNS 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: ECON 490 Independent Study

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ECNS 494 SEMINAR/WORKSHOP (V 1-4)

Pre-Fall 2009 UMW course: ECON 409 Seminar

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

ECNS 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2009 UMW course: ECON 400 Cooperative Education/ Internship

This option is intended to provide students with an opportunity to incorporate an appropriate extended field experience into their academic program. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

ECNS 499 SENIOR PROJECT/THESIS (V 1-15)

Pre-Fall 2009 UMW course: ECON 498 Senior Project/Thesis

An individual project or thesis closely associated with the student's academic program and career goals. Student works with one selected faculty member. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

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ECON—Economics

[For CCN equivalent courses, see appropriate rubric & course listed beneath individual courses]

ECON 151 INTRODUCTION TO ECONOMICS (3)

See *ECNS 101 Economic Way of Thinking*

ECON/GEOG/POLS 201 THE WORLD ECONOMY (4)

See *ISSS 201 The World Economy*

ECON 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ECON 250 PRINCIPLES OF ECONOMICS (4)

See *ECNS 203 Principles of Microeconomics & Macroeconomics*

ECON 251 PRINCIPLES OF MACROECONOMICS (3)

See *ECNS 202 Principles of Macroeconomics*

ECON 252 PRINCIPLES OF MICROECONOMICS (3)

See *ECNS 201 Principles of Microeconomics*

ECON 290 INDEPENDENT STUDY (V 1-4)

See *ECNS 292 Independent Study*

ECON 334 ECONOMICS OF TOURISM & RECREATION (3)

See *ECNS 334 Economics of Tourism & Recreation*

ECON 357 MONEY & BANKING (3)

See *ECNS 313 Money & Banking*

ECON 358 INTERNATIONAL TRADE & FINANCE (4)

See *ECNS 431 International Trade*

ECON 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *ECNS 498 Internship/Cooperative Education*

ECON 409 SEMINAR (V 1-4) R

See *ECNS 494 Seminar/Workshop*

ECON 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

ECON 434 RESOURCE ECONOMICS (4)

See *ECNS 332 Economics of Natural Resources*

ECON 455 PUBLIC FINANCE & BUDGETING (3)

Principles of taxation and expenditure at all levels of government. Particular emphasis is given to implication of deficits to national resource allocation policy. Students will be able to demonstrate their understanding of national, state, and local budget development and methods of taxation. The method of delivery will include lecture, group interaction and discussion, computerized simulations, and use of the Internet as a means of gaining access to information sources. Students will be assessed by means of essay examinations, research papers, use of the Internet, and computerized simulations. Prereq: ECON 250 (*ECNS 203*), ECON 251 (*ECNS 202*), or ECON 252 (*ECNS 201*). (on demand)

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ECP—Emergency Care Provider ***[New CCN rubric effective Fall 2013]***

ECP 100 FIRST AID & CPR (1)**Pre-Fall 2013 UMW course:** HHP 231 First Aid & Safety

Using the American Red Cross First Aid/CPR/AED for Schools and the Community course as a foundation, students will complete certification

requirements for adult and child CPR and AED, infant CPR, and basic first aid. Students must demonstrate hands-on techniques for each skill and will also be assessed through written examinations. \$25 Course Fee. (fall/spring)

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ED—Education

[For CCN equivalent courses, see appropriate rubric & course listed beneath individual courses]

ED 120 BECOMING A PROFESSIONAL EDUCATOR (4)See *EDU 201 Introduction to Education with Field Experience***ED 242 MEETING THE NEEDS OF THE FAMILY (2)**See *EDEC 210 Meeting the Needs of Families***ED 142 INTRODUCTION TO EARLY CHILDHOOD (1)**See *EDEC 108 Introduction to Early Childhood Education***ED 243 MEETING THE NEEDS OF THE FAMILY LAB (1)**See *EDEC 211 Meeting the Needs of Families Lab***ED 143 INTRODUCTION TO EARLY CHILDHOOD LAB (1)**See *EDEC 109 Introduction to Early Childhood Education Lab***ED 250 CHILD & ADOLESCENT GROWTH & DEVELOPMENT (3)**See *EDEC 247 Child & Adolescent Growth & Development***ED 144 CREATING AN ENVIRONMENT FOR LEARNING (2)**See *EDEC 220 Creating an Environment for Learning, Early Childhood***ED 251 CHILD & ADOLESCENT GROWTH & DEVELOPMENT LAB (1)**See *EDEC 248 Child & Adolescent Growth & Development Lab***ED 145 CREATING AN ENVIRONMENT FOR LEARNING LAB (1)**See *EDEC 221 Creating an Environment for Learning, Early Childhood Lab***ED 253 PSYCHOLOGICAL FOUNDATIONS OF TEACHING & LEARNING (4)**See *EDU 222 Educational Psychology & Child Development***ED 195 CAREER PLANNING: TAKE HOLD OF YOUR FUTURE (2)**

Assessment of student's interests and abilities leads to investigation of various occupational areas. Emphasis on lifelong processes such as making decisions, understanding self, and planning strategies for successful goal attainment. (fall/spring)

ED 255 CONTEMPORARY AMERICAN INDIAN EDUCATION (3)

The purpose of this course is to provide training and experience to address the unique needs of contemporary American Indian students. The course fulfills the requirements of MCA (Montana Code Annotated) 20-1-501, intended to enhance the improvement of all federal, tribal, and public schools that serve American Indian students. Students will know about the effects of poverty, high school dropout rates, substance abuse, over-representation in special education, teenage pregnancy, and poor employment prospects. (on demand)

ED 200 EARLY CHILDHOOD INTERNSHIP (V 1-6)See *EDEC 298 Early Childhood Internship***ED 270 LITERACY, LANGUAGE, & TEXTS (4)**See *EDU 233 Literacy, Language, & Texts***ED 201 INTRODUCTION TO SPECIAL EDUCATION (2)**

An introduction to the current mandates of state and federal governments regarding the education and services to children with disabilities. The students will discuss IDEA, Section 504 of the Vocational Rehabilitation Act, current delivery service systems to education, and how this affects those identified with disabilities. A 30-hour field experience is required. (on demand)

ED 281 PARTNERSHIPS & COLLABORATION (4)**2010-11 UMW course:** *EDU 241 Partnerships & Collaboration*; **2011-12:** *EDU 391A Collaboration & Planning to Execute IEPs*; **Effective 2012-13:** *EDSP 281 Collaboration & Planning to Execute IEPs***ED 210 METHODS OF TEACHING GRAMMAR (2)**See *EDU 263 Methods of Teaching Grammar***ED 283 STRATEGIES FOR TUTORING LANGUAGE ARTS & MATH (3)**This course is a methodology course that helps students learn strategies for tutoring in an education position. Effective instruction in reading, writing, spelling, phonemic awareness, comprehension skills, and math will be discussed and demonstrated. This course requires a 60-hour tutoring experience in a classroom and/or community-based program. Prereq: ED 270 (*EDU 233*), and either MATH 105 (*M 119*) or MATH 106 (*M 107*). (spring)**ED 219 DIRECTED STUDY (V 1-5)**

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ED 234 TECHNOLOGY FOR ELEMENTARY TEACHERS (4)See *EDU 370 Integrating Technology into Education***ED 285 STUDENTS WITH SEVERE DISABILITIES (3)**

This course is an in-depth study of the theory, education, and care of students with severe disabilities. Extreme cases of autism, multiple disabilities, emotional disorders, cognitive delay, and physical

ED 240 POSITIVE CHILD DISCIPLINE (2)See *EDEC 230 Positive Child Guidance***ED 241 POSITIVE CHILD DISCIPLINE LAB (1)**See *EDEC 231 Positive Child Guidance Lab*

disabilities will be studied. Appropriate handling techniques, education programs, Mandt Training, and behavior strategies will be stressed. (fall)

ED 289 PARAPROFESSIONAL INTERNSHIP (6)

See *EDU 253 Paraprofessional Internship*

ED 290 INDEPENDENT STUDY (V 1-4)

See *EDU 292 Independent Study*

ED 292 INTRODUCTION TO BUSINESS FOR EARLY CHILDHOOD (3)

See *EDEC 268 Introduction to Business for Early Childhood Programs*

ED 320 EARLY CHILDHOOD CURRICULUM I (2)

See *EDEC 281 Early Childhood Curriculum Design & Implementation I*

ED 321 EARLY CHILDHOOD CURRICULUM I LAB (1)

See *EDEC 282 Early Childhood Curriculum Design & Implementation I Lab*

ED 324 EARLY CHILDHOOD CURRICULUM II (2)

See *EDEC 283 Early Childhood Curriculum Design & Implementation II*

ED 325 EARLY CHILDHOOD CURRICULUM II LAB (1)

See *EDEC 284 Early Childhood Curriculum Design & Implementation II Lab*

ED 326 INFANT/TODDLER DEVELOPMENT & GROUP CARE (4)

See *EDEC 249 Infant/Toddler Development & Group Care*

ED 328 CURRICULUM, INSTRUCTION, ASSESSMENT, & MANAGEMENT (3)

See *EDU 382 Assessment, Curriculum, & Instruction*

ED 329 CURRICULUM, INSTRUCTION, ASSESSMENT & MANAGEMENT PRACTICUM (1)

See *EDU 382 Assessment, Curriculum, & Instruction*

ED 341 EXCEPTIONAL LEARNER (3)

This course is an introduction to learners with a range of special needs including disabilities, at-risk, gifted, and culturally different. Includes current laws and regulations, identification, services, inclusion, assessment, curriculum, and behavior management issues in the field of special education and as related to general education and special education teachers. A field experience is required. Assessment involves readings, class discussions, papers, presentations, and a field experience report. This is one of the Professional Education courses offered by the Education Department. Prereq: Admission to TEP; or c/i. (on demand)

ED 343 PERSONS WITH DISABILITIES (3)

This course is an in-depth study of the characteristics of persons with disabilities. Causes, current issues surrounding the disability, and trends about these disabilities will be discussed in a seminar format. (on demand)

ED 344 EARLY CHILDHOOD PROFESSIONAL (2)

See *EDEC 265 Leadership & Professionalism in Early Childhood Education*

ED 345 EARLY CHILDHOOD PROFESSIONAL LAB (1)

See *EDEC 266 Leadership & Professionalism in Early Childhood Education Lab*

ED 346 EARLY LITERACY (3)

See *EDEC 450 Literacy in the Early Childhood Classroom*

ED 348 MATH & SCIENCE FOR EARLY CHILDHOOD (3)

See *EDEC 352 Math & Science for Early Childhood*

ED 351 SOCIAL ASPECTS OF BEHAVIOR (3)

An introductory study of group processes and collective behavior. (on demand)

ED 352 ENHANCING PHYSICAL SKILLS IN EARLY CHILDHOOD (1)

See *EDEC 353 Fostering Movement in Young Children*

ED 354 FOSTERING SOCIAL COMPETENCE IN THE EARLY YEARS (3)

See *EDEC 430 Social/Emotional Development in Young Children*

ED 355 METHODS & MATERIALS OF EXPERIENTIAL SCIENCE EDUCATION (4)

See *EDU 497S Methods: 5-12 Science*

ED 357 METHODS & MATERIALS IN SOCIAL SCIENCE (4)

See *EDU 497H Methods: 5-12 Social Studies*

ED 379 MUSIC FOR ELEMENTARY TEACHERS (3)

Fall 2010 UMW course: *EDU 397 Methods: K-8 Music*

Effective Spring 2011: *EDU 397A Methods: K-8 Integrated Arts for All Learners* (fall/spring)

ED 381 INTRODUCTION TO LITERACY ASSESSMENT & INSTRUCTION (3)

See *EDU 438 Literacy Assessment, Diagnosis, & Instruction*

ED 382 LITERACY PRACTICUM: STRUGGLING READERS GRADES 1-4 (1)

See *EDU 439 Practicum: Literacy Assessment, Diagnosis, & Instruction*

ED 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *EDU 498 Internship*

ED 409 SEMINAR (V 1-3) R

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

ED 410 GROUP DYNAMICS & LEADERSHIP (2)

Theory and practice of group process and leadership. The skills required for leading meetings, workshops, committees and guidance, training, and self-help groups. (on demand)

ED 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

ED 420 EDUCATIONAL STATISTICS (3)

An introduction to both descriptive and inferential statistics, with an emphasis on educational applications and statistical literacy. Descriptive statistics include measurement of central tendency, variation, and relationship. Inferential statistics include z values, t, F, and chi-square distributions. (on demand)

ED 421 CREATIVITY & THE YOUNG CHILD: EXPLORING REGGIO EMILIA & THE PROJECT APPROACH (3)

See *EDEC 452 Exploring Reggio Emilia & the Project Approach*

ED 422 FAMILY, COMMUNITIES, CULTURE (3)

2010-12: *EDU 442 Family, Communities, Culture*;

Effective 2012-13: *EDEC 410 Family, Communities, Culture*

ED 424 EARLY CHILDHOOD ASSESSMENT & OUTCOMES (3)

See *EDEC 405 Assessment in Early Childhood*

ED 425 MULTICULTURAL/GLOBAL EDUCATION (3)

See *EDU 311 Cultures, Diversity, & Ethics in Global Education*

ED 431 METHODS & MATERIALS FOR STUDENTS WITH LEARNING DISABILITIES & COGNITIVE DELAY (4)
2010-12: *EDU 491G Methods of Instruction for Students with High Incidence Disabilities;*
Effective 2012-13: *EDSP 464 Methods of Instruction for Students with High Incidence Disabilities*

ED 434 MANAGEMENT OF EXCEPTIONAL LEARNERS (4)
2011-12: *EDU 491B Behavioral Principles of Learning & Teaching*
Effective 2012-13: *EDSP 434 Behavioral Principles of Learning & Teaching*

ED 445 METHODS OF TEACHING CONTENT AREA LITERACY (2)
 See *EDU 481 Content Area Literacy*

ED 446 ADVANCED LITERACY ASSESSMENT, DIAGNOSIS, & INSTRUCTION K-12 (3)
 See *EDU 448 Advanced Literacy Assessment, Diagnosis, & Instruction*

ED 447 LITERACY PRACTICUM: ADVANCED LITERACY ASSESSMENT, DIAGNOSIS, & INSTRUCTION K-12 (1)
 See *EDU 448 Advanced Literacy Assessment, Diagnosis, & Instruction*

ED 450 RURAL EDUCATION I (2)
 Classroom and field exposure to the unique world of the K-8 multi-grade elementary classroom including professional and community resources available, planning curriculum, instruction, and assessment, subject integration, self-directed learning, peer tutoring, and necessary administrative functions of the supervising teacher. (on demand)

ED 451 RURAL EDUCATION II, K-12 (2)
 A seminar with guided independent projects designed to enhance the understanding of the interconnectedness of the K-12 rural school and its community and ability to use the resources from both settings to improve the whole. (on demand)

ED 455 CHILD DEVELOPMENT RESEARCH (3)
 See *EDEC 445 Child Development Research*

ED 457 COACHING & MENTORING ADULTS (3)
2010-12: *EDU 447 Coaching & Mentoring Adults;*
Effective 2012-13: *EDEC 460 Mentoring & Coaching in Early Childhood Education*

ED 460 PROFESSIONALISM & RESEARCH IN LITERACY EDUCATION (2)
 See *EDU 489 Research & Professionalism in Literacy Education*

ED 461 CAPSTONE LITERACY PRACTICUM: STRUGGLING READERS GRADES K-12 (2)
 See *EDU 489 Research & Professionalism in Literacy Education*

ED 471 SENIOR SEMINAR (2)
 An on-campus seminar in conjunction with the student teaching experience featuring professional educators. Special topics including resume writing, letters of application, philosophy of education, exceptional children, management, and certification are covered. (fall/spring)

ED 472 STUDENT TEACHING-ELEMENTARY (V 2-15) R
 See *EDU 495K Student Teaching: K-8*

ED 473 STUDENT TEACHING-SECONDARY (V 2-15) R
 See *EDU 495S Student Teaching: 5-12*

ED 474 STUDENT TEACHING K-12 (V 2-15) R
 See *EDU 495A Student Teaching: K-12*

ED 475 TEACHING INTERNSHIP (V 2-15)
 See *EDU 498 Internship*

ED 476 LICENSURE INTERNSHIP (V 1-2)
 See *EDU 498 Internship*

ED 490 INDEPENDENT STUDY (V 1-4)
 See *EDU 492 Independent Study*

ED 496 EARLY CHILDHOOD PRACTICUM (V 1-6)
 See *EDEC 495 Early Childhood Advanced Practicum*

ED 498 SENIOR PROJECT/THESIS (V 1-15)
 An individual project or thesis closely associated with the student's academic program and career goals. Student works with one selected faculty member. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

EDEC—Early Childhood Education

[New CCN rubric effective Fall 2012]

EDEC 108 INTRODUCTION TO EARLY CHILDHOOD EDUCATION (1)
Pre-Fall 2012 UMW course: ED 142 Introduction to Early Childhood
 Provides an overview of the early childhood education issues, practices, and methodology. In addition, students learn about CDA functional areas, indicators, activities, and training and assessment steps. This course is articulated through Tech Prep. (fall/even-numbered years)

EDEC 109 INTRODUCTION TO EARLY CHILDHOOD EDUCATION LAB (1)
Pre-Fall 2012 UMW course: ED 143 Introduction to Early Childhood Lab
 Focus is on becoming acquainted with program policies and philosophies, exposure to a variety of learning areas, and implementation of activities with small groups of children. Students also become more familiar with their own learning styles and professional goals. This course is articulated through Tech Prep. \$6 Course Fee. (fall/even-numbered years)

EDEC 210 MEETING THE NEEDS OF FAMILIES (2)
Pre-Fall 2012 UMW course: ED 242 Meeting the Needs of the Family
 Introduction of benefits, barriers, foundations, and techniques for encouraging parent-teacher partnerships. Students also explore family structures and dynamics, both functional and dysfunctional. (spring/odd-numbered years)

EDEC 211 MEETING THE NEEDS OF FAMILIES LAB (2)
Pre-Fall 2012 UMW course: ED 243 Meeting the Needs of the Family Lab
 Focus on developing and demonstrating skills that encourage parent-teacher partnerships including sharing information informally, making home visits, participating in parent/teacher conferences, and developing and implementing parent information and workshops. \$6 Course Fee. (spring/odd-numbered years)

EDEC 220 CREATING AN ENVIRONMENT FOR LEARNING-EARLY CHILDHOOD (2)

Pre-Fall 2012 UMW course: ED 144 Creating an Environment for Learning
Explores the developmentally appropriate environment and its effect on the learner in the physical, cognitive, and social domains. It also deals with planning for learning: units, scheduling, transitions, lesson planning, children's safety, nutrition, and health. (fall/even-numbered years)

EDEC 221 CREATING AN ENVIRONMENT FOR LEARNING-EARLY CHILDHOOD LAB (1)

Pre-Fall 2012 UMW course: ED 145 Creating an Environment for Learning Lab
Designing and implementing developmentally appropriate classroom arrangements, learning centers, schedules, lesson plans, and transitions. \$6 Course Fee. (fall/even-numbered years)

EDEC 230 POSITIVE CHILD GUIDANCE (2)

Pre-Fall 2012 UMW course: ED 240 Positive Child Discipline
Focuses on developing skills in using positive guidance techniques while enhancing children's self-concept and developing children's pro-social skills. (fall/even-numbered years)

EDEC 231 POSITIVE CHILD GUIDANCE LAB (1)

Pre-Fall 2012 UMW course: ED 241 Positive Child Discipline Lab
Demonstration of skills in using positive guidance, establishing a pro-social environment, and implementing lessons that enhance self-concept and social skills. \$6 Course Fee. (fall/even-numbered years)

EDEC 247 CHILD & ADOLESCENT GROWTH & DEVELOPMENT (3)

Pre-Fall 2012 UMW course: ED 250 Child & Adolescent Growth & Development
Students will examine, analyze, and apply research, theories, and issues concerning basic biosocial, cognitive, and psychosocial developmental stages from conception through childhood and adolescence. (fall/even-numbered years)

EDEC 248 CHILD & ADOLESCENT GROWTH & DEVELOPMENT LAB (1)

Pre-Fall 2012 UMW course: ED 251 Child & Adolescent Growth & Development Lab
Students use a variety of instruments to observe and interact with individual children as a way of integrating theory and practice. \$6 Course Fee. (fall/even-numbered years)

EDEC 249 INFANT/TODDLER DEVELOPMENT & GROUP CARE (4)

Pre-Fall 2012 UMW course: ED 326 Infant/Toddler Development & Group Care
Provides a basic developmental foundation for the student. Examines research, theories, issues, developmental stages, and the application of these in relationship to the child from birth to 3 years. Students are required to complete a 45-hour lab component in a licensed/registered facility serving infants/toddlers. (spring)

EDEC 265 LEADERSHIP & PROFESSIONALISM IN EARLY CHILDHOOD EDUCATION (2)

Pre-Fall 2012 UMW course: ED 344 Early Childhood Professional
This course focuses on the early childhood profession including awareness of value issues and ethical issues in working with children and their families, legal issues, issues of salary and status, staff relations, and the importance of becoming an advocate for upgrading the profession and improving the services for children. During this AAS capstone course, students complete a comprehensive oral interview, program portfolio, and engage in an advocacy project. Prereq: ED 324/325 (EDEC 283/284); or c/i. (spring/odd-numbered years)

EDEC 266 LEADERSHIP & PROFESSIONALISM IN EARLY CHILDHOOD EDUCATION LAB (1)

Pre-Fall 2012 UMW course: ED 345 Early Childhood Professional Lab
Students and the instructor will develop an individual training plan with goals and activities based upon the student's demonstration of competence in working with young children. \$6 Course Fee. (spring/odd-numbered years)

EDEC 268 INTRODUCTION TO BUSINESS FOR EARLY CHILDHOOD PROGRAMS (3)

Pre-Fall 2012 UMW course: ED 292 Introduction to Business for Early Childhood
This course introduces best business practices for home and center-based early childhood programs. Students will draft policy statements, contracts, and financial projections, demonstrate recordkeeping strategies, anticipate employment and income tax obligations, plan marketing activities, and prepare a simple business plan or a Montana Best Beginnings Provider Grant application. Students will research state, federal, and private programs for improving childcare income and expanding early childhood businesses.

EDEC 281 EARLY CHILDHOOD CURRICULUM DESIGN & IMPLEMENTATION I (2)

Pre-Fall 2012 UMW course: ED 320 Early Childhood Curriculum I
Focus will be on curriculum content and methods in the areas of physical activity and physical education, literacy and language, and social studies. Students will develop relevant and meaningful curriculum for young children with an emphasis on assessment and providing for the unique needs of each child. Prereq: ED 144/145 (EDEC 220/221) and ED 240/241 (EDEC 230/231); or c/i. (spring/odd-numbered years)

EDEC 282 EARLY CHILDHOOD CURRICULUM DESIGN & IMPLEMENTATION I LAB (1)

Pre-Fall 2012 UMW course: ED 321 Early Childhood Curriculum I Lab
Implementation of developmentally appropriate activities and projects for young children, which include physical activity and education, literacy and language, and social studies. \$6 Course Fee. Prereq: ED 144/145 (EDEC 220/221) and ED 240/241 (EDEC 230/231); or c/i. (spring/odd-numbered years)

EDEC 283 EARLY CHILDHOOD CURRICULUM DESIGN & IMPLEMENTATION II (2)

Pre-Fall 2012 UMW course: ED 324 Early Childhood Curriculum II
Focus will be on curriculum content and methods in the areas of mathematics, science, and the arts. Students will develop relevant and meaningful curriculum for young children with an emphasis on assessment and providing for the unique needs of each child. Prereq: ED 320/321 (EDEC 281/282); or c/i. (spring/odd-numbered years)

EDEC 284 EARLY CHILDHOOD CURRICULUM DESIGN & IMPLEMENTATION II LAB (1)

Pre-Fall 2012 UMW course: ED 325 Early Childhood Curriculum II Lab
Implementation of developmentally appropriate activities and projects for young children, which include science, mathematics, and the arts. \$6 Course Fee. Prereq: ED 320/321 (EDEC 281/282); or c/i. (spring/odd-numbered years)

EDEC 298 EARLY CHILDHOOD INTERNSHIP (V 1-6)

Pre-Fall 2012 UMW course: ED 200 Early Childhood Internship
Participate 20 hours per week in a supervised early childhood setting. With the instructor, students design an individualized training plan that outlines goals, activities, and assessment for the internship based upon the student's needs, interests, and demonstration of competence in working with children, families, and staff members. (fall/spring)

EDEC 352 MATH & SCIENCE FOR EARLY CHILDHOOD (3)

Pre-Fall 2012 UMW course: ED 348 Math & Science for Early Childhood

Focus on developmentally appropriate, research-based curriculum, methods, and assessment in early childhood mathematics and science. Examine the integration of technology, state and national standards, and key concepts and skills into science and math curriculum. Develop and implement high quality, meaningful science and math experiences that focus on hands-on exploration and investigation of meaningful content. Prereq: ED 324/325 (*EDEC 283/284*). (fall)

EDEC 353 FOSTERING MOVEMENT IN YOUNG CHILDREN (1)

Pre-Fall 2012 UMW course: ED 352 Enhancing Physical Skills in Early Childhood

Examines high quality, meaningful physical activity and physical education experiences across a developmental continuum including discussion of cultural differences and gender expectations. Prereq: ED 324/325 (*EDEC 283/284*).

EDEC 405 ASSESSMENT IN EARLY CHILDHOOD (3)

Pre-Fall 2012 UMW course: ED 424 Early Childhood Assessment & Outcomes

Examines the goals, benefits, limitations, characteristics, and uses of assessment for young children, families, staff, and programs. Explore the relationship between assessment and outcomes, examine and critique different assessment tools and strategies, develop and implement assessment plans, and practice skills in collaboration to form assessment partnerships. Prereq: ED 251 (*EDEC 248*). (fall)

EDEC 410 FAMILY, COMMUNITIES, CULTURE (3)

Pre-Fall 2010 UMW course: ED 422 Family, Communities, Culture; **2010-12:** *EDU 442 Family, Communities, Culture*

Examines characteristics, research, and theories on families and communities including socioeconomic conditions, family structures, relationships, stresses, supports, home language, cultural values, ethnicity, community resources, cohesiveness, and organization influences. Prereq: ED 240/241 (*EDEC 230/231*); or c/i. (fall)

EDEC 430 SOCIAL/EMOTIONAL DEVELOPMENT IN YOUNG CHILDREN (3)

Pre-Fall 2012 UMW course: ED 354 Fostering Social Competence in the Early Years

The course will examine the development, components, and influences of social competence in the early years and explore common social difficulties. Students will develop and implement plans to enhance social competence through examining the contexts for social development, utilizing effective teaching strategies and practices, and strengthening specific components found to relate to social competence. Prereq: ED 240/241 (*EDEC 230/231*). (spring)

EDEC 445 CHILD DEVELOPMENT RESEARCH (3)

Pre-Fall 2012 UMW course: ED 455 Child Development Research

In-depth examination of current qualitative and quantitative methodology and research relating to child development from prenatal to age 8. Class is taught online in a seminar format. In this course, students develop and share a literature review and facilitate a discussion around their chosen topic. Knowledge of research methodology is also assessed through an exam. Prereq: ED 250 (*EDEC 247*) and Junior standing. (spring)

EDEC 450 LITERACY IN THE EARLY CHILDHOOD CLASSROOM (3)

Pre-Fall 2012 UMW course: ED 346 Early Literacy

Examines language and literacy research including second language acquisition, bilingualism, and sociopolitical contexts of major language groups. Students critique a variety of curriculum models and strategies based upon research, developmental appropriateness, and national and state standards. Based upon these findings, students will design and implement high quality, meaningful, research-based language and literacy experiences and environments in early childhood settings. Prereq: ED 320/321 (*EDEC 281/282*); or c/i. (fall)

EDEC 452 EXPLORING REGGIO EMILIA & THE PROJECT APPROACH (3)

Pre-Fall 2012 UMW course: ED 421 Creativity & The Young Child: Exploring Reggio Emilia & the Project Approach

Develop and implement methodologies from Reggio and the project approach. Use documentation to develop curriculum, communicate with parents, analyze children's growth, and celebrate children's learning. Research and critically analyze a self-chosen topic related to Reggio or the project approach. Field Trip Fee-Varies.

EDEC 460 MENTORING & COACHING IN EARLY CHILDHOOD EDUCATION (3)

Pre-Fall 2010 UMW course: ED 457 Coaching & Mentoring Adults; **2010-12:** *EDU 447 Coaching & Mentoring Adults*

Examines adult learning theory, supervisory and mentoring models, adult development, stages in teacher development, and effective mentoring and coaching skills. Students will practice mentoring skills including relationship building, observation and conferencing, assessing early childhood skills, knowledge, and dispositions, and planning and implementing effective training sessions. Prereq: ED 250 (*EDEC 247*) and ED 344 (*EDEC 265*); or c/i. (spring)

EDEC 495 EARLY CHILDHOOD ADVANCED PRACTICUM (V 1-6)

Pre-Fall 2012 UMW course: ED 496 Early Childhood Practicum Provides students with a supervised field experience in the area of their emphasis. The practicum will be based upon an individualized training plan that outlines goals and activities for the practicum. (fall/spring/ summer)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

EDSP—Special Education

[New CCN rubric effective Fall 2012]

EDSP 281 COLLABORATION & PLANNING TO EXECUTE IEPs (4)

Pre-Fall 2010 UMW course: ED 281 Partnerships & Collaboration; **2010-11:** *EDU 241 Partnerships & Collaboration*;

2011-12: *EDU 391A Collaboration & Planning to Execute IEPs*

This course prepares students for the IEP process. This IEP process should be a seamless collaboration between key stakeholders in planning, writing, and implementing individualized plans for children with disabilities. Students will learn both the legal and pedagogical mechanics of writing IEPs as well as the human process. Emphasis will be placed on family-centric communication and bridging the needs of all through sound principles of collaboration, effective instruction, and

professional behavior. This course investigates the relationships that exist between professionals, parents, and outside agencies. Students will learn to work effectively with teachers, principals, other school personnel, parents, and agencies. Communication skills, collaboration, and professionalism will be stressed to promote harmonious working conditions to benefit students with differences. Students will complete and be evaluated upon a variety of applied activities including simulated IEP development, case studies and applied activities relative to relationship building, and web-based assignments. (spring; summer/ even-numbered years)

EDSP 302 TEACHING STUDENTS WITH EMOTIONAL DISTURBANCE (4)

Pre-Fall 2012 UMW course: EDU 491I Intervention for Students with Severe Behavior & Social Disabilities

This course focuses on identifying, recording, evaluating, and changing serious social and behavior disorders. Principles and practices of data-based intervention will be learned. Application of robust technologies of assessment, behavior change, and accountability as they apply to children with severe behavioral problems such as conduct disorder, ADHD, withdrawal, depression, and autism. Students are assessed by completion by team case studies and empathy driven essays. Developing intensive individual behavior management plans will be emphasized. (spring; summer/odd-numbered years)

EDSP 303 TEACHING STUDENTS WITH INTELLECTUAL DISABILITIES (4)

Pre-Fall 2012 UMW course: EDU 491H Methods of Instruction for Students with Low Incidence Disabilities (4)

This course focuses on students with moderate and severe disabilities in intellectual, motor, communication, perceptual, and/or social skills. The needs of these students are particularly unique. Thus, students taking this class will need to acquire a comprehensive knowledge of instruction planning for students with severe or multiple disabilities. With the move toward inclusive schools, the role of special education and general education teachers has changed considerably in the past two decades. Finding the right tools for students can help them both reach their potential and become part of the classroom and adult community. Students are assessed by case-based intervention plans. (spring; summer/odd-numbered years)

EDSP 434 BEHAVIORAL PRINCIPLES OF LEARNING & TEACHING (4)

Pre-Fall 2011 UMW course: ED 434 Management of Exceptional Learners;

2011-12: *EDU 491B Behavioral Principles of Learning & Teaching*

This course focuses on identifying, recording, evaluating, and changing social behaviors of special and diverse populations. Principles and practices of data-based intervention will be learned. Application of robust technologies of assessment, behavior change, and accountability as they apply to children with mild to aggregate and environmentally

sustained behavior problems will be addressed. Developing classroom and individual behavior management plans using principles of research will be emphasized. Students will be evaluated based upon weekly content-based assignments and applied research project. (fall; summer/even-numbered years)

EDSP 464 METHODS OF INSTRUCTION FOR STUDENTS WITH HIGH INCIDENCE DISABILITIES (4)

Pre-Fall 2010 UMW course: ED 431 Methods & Materials for Students with Learning Disabilities & Cognitive Delay;

2010-12: *EDU 491G Methods of Instruction for Students with High Incidence Disabilities*

The purpose of this course is to prepare teachers to accommodate academic and/or social intervention for students with a variety of mild to moderate educational needs. The course will cover educational best practices which have documented efficacy and a parsimonious approach to intervention design. Because textbooks can provide neither comprehensive nor the most current information available for the wide-ranging problems seen in classrooms, students will hone their ability to use the literature as a tool for selecting authentic data-based methods. Students will be evaluated based upon professional learning community contributions and content-based applied modules. (spring; summer/even-numbered years)

EDSP 470 RESPONSE TO INTERVENTION BEST PRACTICES (4)

Pre-Fall 2013 UMW course: *EDU 491A Response to Intervention Best Practices*

The purpose of this course is to prepare teachers to work cooperatively with school-based Response to Intervention (RTI) teams. As a result of reauthorization of IDEA (2004), RTI is now mandated. RTI is a process of providing general education adaptations to close the gap between struggling learners and their typical classmates. The purpose of RTI is also to identify children with learning disabilities who may be eligible for special education. Documentation of how a child responds to scientific, research-based interventions is part of the RTI process. Students will complete a variety of applied activities including micro-teaching using effective reading and math curricula and web-based notes. (spring; summer/odd-numbered years)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

EDU—Education
[New CCN rubric effective Fall 2010]

EDU 201 INTRODUCTION TO EDUCATION WITH FIELD EXPERIENCE (4)

Pre-Fall 2010 UMW course: ED 120 Becoming a Professional Educator

The first formal course in the Teacher Education Program, this course provides an introduction to the field of education and the relationships between schools and society. Students begin to evaluate the reasons chosen to become a teacher and the effects that decision will have on their lives. Students examine social, cultural, political, legal, economic, and historical issues within schools and how these issues impact professional educators. During this course, students begin to assemble the professional portfolio, which is a requirement for entry into the Teacher Education Program (TEP). The portfolio will be maintained throughout participation in the Teacher Education Program and is an integral part of the evaluation process. Students will complete a field experience in a school setting. The field experience placement will be made by the Director of Field Experiences. \$35 Course Fee. (fall/spring/summer)

EDU 222 EDUCATIONAL PSYCHOLOGY & CHILD DEVELOPMENT (4)

Pre-Fall 2010 UMW course: ED 253 Psychological Foundations of Teaching & Learning

Candidates will explore, compare, contrast, and analyze major psychological theories of development and learning. Teacher candidates will apply these theories to teaching practices. The major progression of physical, social, emotional, moral, and cognitive development and the ranges of individual variation within these domains of development in children from birth to adolescence will be emphasized. The course will emphasize the diversity of all learners with regard to learning styles, multiple intelligences, gender differences, cultural expectations, and exceptionality, as well as teaching approaches to accommodate these differences as well as normal psychological development. \$15 Course Fee. (fall/spring)

EDU 233 LITERACY, LANGUAGE, & TEXTS (4)

Pre-Fall 2010 UMW course: ED 270 Literacy, Language, & Texts
Literacy growth begins before children enter school as they experience and experiment with literacy activities—reading, writing, and associating spoken words with their graphic representations. The course will focus on the understanding of a comprehensive literacy curriculum that makes productive use of the literacy abilities that children of all ages bring to school as well as the multiple ways in which literacy is represented in our lives, texts, culture, and perceptions of the world. Required for Elementary Education Major and Literacy Minor. \$10 Course Fee. Prereq: *EDU 234*.

EDU 234 READING & WRITING CONNECTIONS FOR ALL LEARNERS K-8 (4)

What happens when young readers write? What happens when young writers read? Using a reading and writing workshop model designed for the K-8 setting, students in this course will be immersed in authentic, process-based experiences in responding to, analyzing, and writing about texts that are commonly used in the elementary and middle school settings. The central experiential learning outcome of this course will be an understanding of the complex ways in which the reading process supports development of writing skills, while immersion in the writing process in turn supports development of reading proficiency. Emphasis will be placed on the composing process, and students will write for a wide range of purposes. Students will carefully examine methods for the development and support of an understanding of grammar and writing conventions, in elementary age students, and in their own writing as well. Students will be assessed with quizzes, reflections on research articles, literature circles, research papers, and observation form. \$15 Course Fee. (fall/spring)

EDU 241 PARTNERSHIPS & COLLABORATION (4)

Pre-Fall 2010 UMW course: ED 281 Partnerships & Collaboration;
2011-12: *EDU 391A Collaboration & Planning to Execute IEPs*;
Effective 2012-13: *EDSP 281 Collaboration & Planning to Execute IEPs*

EDU 253 PARAPROFESSIONAL INTERNSHIP (6)

Pre-Fall 2010 UMW course: ED 289 Paraprofessional Internship
This course is the incorporation of an appropriate work experience into the student's academic preparation. The student will develop a learning contract with his/her instructor, maintain a portfolio of his/her work experience, and make a final presentation of his/her portfolio/internship experience to the Education faculty. The course requires a minimum of 40 hours of appropriate work experience for each credit earned. Prereq: Sophomore standing and c/i. (fall/spring)

EDU 263 METHODS OF TEACHING GRAMMAR (2)

Pre-Fall 2010 UMW course: ED 210 Methods of Teaching Grammar
This course is designed for students who anticipate teaching grammar in elementary or secondary English and Language Arts classrooms. Upon completion of this course, students will be familiar with modern English grammar and sentence structure, literary devices, text structure and organization, methods of incorporating grammar instruction in the context of writing, and evaluating grammar in student writing. (on demand)

EDU 291 INTRODUCTION TO SERVICE, CITIZENSHIP, & COMMUNITY (V 2-4)

Students in this course work with a non-profit, school, or government organization through volunteer service as a way to gain experience and knowledge that aligns with their personal or professional goals.

EDU 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2010 UMW course: ED 290 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

EDU 306 SCHOOL LAW & ADVOCACY FOR ALL K-12 LEARNERS (4)

Candidates develop understanding of the rights and responsibilities of all stakeholders in the education of diverse students in public

education: parents, educators, community, and children. Candidates analyze key legislative mandates, such as Title I, No Child Left Behind, and the Individuals with Disabilities Education Act, and their implications for and impact on K-12 schools. In particular, candidates examine the uses of assessment in schools. Candidates examine seminal legislation such as the Civil Rights Act of 1965 and its application to education; the processes of the judicial system and the implications of landmark litigation, such as *Brown v Board of Education*, *Tinker v Des Moines*, *Rowley v Board of Education*, and *Everson v Board of Education*. Assessment is based on exams, research papers, and case studies. \$15 Course Fee. Prereq: *EDU 382* or *ED 328*; and admission to TEP. (fall/spring/summer)

EDU 311 CULTURES, DIVERSITY, & ETHICS IN GLOBAL EDUCATION (4)

Pre-Fall 2010 UMW courses: ED 425 Multicultural/Global Education, and ED 426 Multicultural/Global Education Practicum
This is a survey course to acquaint the student with the cultural foundations of education. Special emphasis is given to the multicultural and global dimensions of education. In addition, students study educational outcomes for American Indian students. High dropout rates, over-representation in special education, substance abuse, teenage pregnancy, and poor prospects for employment are endemic in this population of students. This course meets the Montana Law MCA 20-1-501 requirements. This course requires a field experience practicum of 4 or 5 days during which candidates engage in observation and practice teaching in Native American reservation schools and evening activities. Takes place in a diverse setting where exceptionality is present. Assessment is based on projects, reports, exams, and field work. \$175 Course Fee. Prereq: Admission to TEP. (fall/spring/summer)

EDU 340 CLASSROOM MANAGEMENT (4)

Pre-Fall 2010 UMW courses: ED 328 Curriculum, Instruction, Assessment, & Management, and ED 329 Curriculum, Instruction, Assessment, & Management Practicum
Teacher education candidates examine research on classroom management, with emphasis on strategies for positive student interaction and motivation, positive behavioral interventions, and principles of universal design for learning. Candidates develop and implement Action Research. A two-week field experience in a public school setting is incorporated within the course. Candidates will remain in the field experience school for the full school day. Assessment is based on exams, a classroom management plan, self-reflections of a videotaped lesson, Action Research, and professional observation form. Prereq: *EDU 382* or *ED 328*; and admission to TEP; taken in semester prior to student teaching. (fall/spring)

EDU 341 POSITIVE DISCIPLINE & CHILD DEVELOPMENT (4)

Candidates develop skills for establishing a positive social environment in elementary school classrooms. Candidates will demonstrate understanding of child development as it relates to positive guidance techniques, enhancing children's self-concept, and developing children's pro-social skills, with a special emphasis on developing these skills in young children. A two-week field experience in an early childhood or primary school setting is required. Candidates will remain in the school throughout the school day. Candidates are assessed using observation forms, exams, lesson plans, and journals. Prereq: Admission to TEP or permission of Early Childhood Education Program. (fall/spring)

EDU 352 FIELD EXPERIENCE K-8 (4)

Pre-Fall 2013 UMW course: *EDU 391H Field Experience K-8*
Teacher candidates experience a 14-day supervised field experience in a classroom in an elementary school, after a two- to three-day preparation at UMW, and followed up by a one-day debriefing at UMW. Candidates engage in this extensive field experience in the final semester prior to student teaching. They spend the entire school day in the assigned elementary school. Principal tenets of the field experience include co-teaching (co-planning, co-instruction, and co-assessment)

with their mentor teacher. Candidates gain practice in co-teaching all content areas and engaging in related professional activities at the school. Assessment includes the development of a partial Teacher Work Sample, and demonstration of professional skills, knowledge, and behaviors. \$100 Course Fee. Prereq: Admission to TEP, *EDU 391B* and *EDU 382*. (fall/spring)

EDU 370 INTEGRATING TECHNOLOGY INTO EDUCATION (4)

Pre-Fall 2010 UMW course: ED 234 Technology for Elementary Teachers

This hands-on course is designed to prepare elementary teachers and paraprofessionals with skills and activities that can be integrated with other areas of instruction. Students will be creating technology-oriented activities to use with elementary school children. Special emphasis will be given to communication, production, and technology integration in the curriculum. Activities will also be designed to develop problem-solving and decision-making skills in elementary school children. \$10 Course Fee. Prereq: Admission to TEP and *EDU 382* or *ED 328*. (fall/spring)

EDU 382 ASSESSMENT, CURRICULUM, & INSTRUCTION (4)

Pre-Fall 2010 UMW courses: ED 328 Curriculum, Instruction, Assessment, & Management, and ED 329 Curriculum, Instruction, Assessment, & Management Practicum

Teacher education candidates examine educational research on effective strategies for instruction and assessment in K-12 classrooms, including principles of universal design for learning, Action Research, and Response to Intervention (RTI). Candidates develop lessons that demonstrate professional skills in instructional design and assessment, aligned with standards for K-12 students. Candidates examine school curricula and classroom resources. Candidates develop a working knowledge of descriptive statistics and probability in relationship to standardized testing used in educational settings. Assessment is based on lesson plans, integrated unit plan, assessment design, exams, and professional observation form. \$15 Course Fee. Prereq: ED 120 (*EDU 201*), and ED 253 (*EDU 222*). (fall/spring)

EDU 385 MATHEMATICS FOR K-8 SCHOOLS WITH PEDAGOGY I (4)

Developing mathematical thinking in K-8 students, part I. Candidates examine the research on teaching and learning mathematics. Candidates develop skills in and strategies for assisting children to develop problem-solving and computation skills, number sense and number concepts, and meanings for the operations. Candidates develop skills in assisting children to work with real and rational numbers, place value, mental computation and estimation, fractions, decimals, percents, ratio, proportion, probability, statistics, algebra, functions, and variables. \$15 Course Fee. Prereq: Admission to TEP. (fall/spring)

EDU 386 MATHEMATICS FOR K-8 SCHOOLS WITH PEDAGOGY II (4)

Developing mathematical thinking in K-8 students, part II. Candidates examine the research on teaching and learning mathematics. Candidates develop skills in and strategies for assisting children to develop two- and three-dimensional geometric thinking, measurement, and logical reasoning. \$15 Course Fee. Prereq: Admission to TEP.

EDU 391A COLLABORATION & PLANNING TO EXECUTE IEPs (4)

Pre-Fall 2010 UMW course: ED 281 Partnerships & Collaboration;
2010-11: *EDU 241 Partnerships & Collaboration*;
Effective 2012-13: *EDSP 281 Collaboration & Planning to Execute IEPs*

EDU 391B CLASSROOM MANAGEMENT IN ELEMENTARY SCHOOLS (4)

Common course number to be determined

Through exploration of positive discipline practices, students gain understanding of the principal tenets of guidance and classroom management, with a major focus on prevention of behavioral problems and development of democratic social skills. Prevention strategies include environmental engineering, rapport building, active engagement, high expectations, and development of self-efficacy. Students develop professional skills in using strategies for mitigation of

mild to moderate behavior problems that do arise, including skills in using conflict resolution, class meetings, contracts, and group contingencies. Assessment includes exams and demonstration of professional skills, knowledge, and behaviors. The course is designed for the final semester prior to student teaching. \$15 Course Fee. Prereq: Admission to TEP, and at least 2 of the following: *EDU 397A*, *EDU 397S*, or *EDU 397L*. (fall/spring/summer)

EDU 391D FOUNDATIONS OF EDUCATIONAL TECHNOLOGY FOR SECONDARY EDUCATION MAJORS (2)

Common course number to be determined

In this course, students will gain an understanding of how technology plays an important role in the secondary education curriculum. Through this course, students will gain an overview to the foundation of educational technology. Students will look at the current and future use of technology in education, theories of learning regarding the use of technology in education, and the implications of using technology through hands-on and project-based learning activities. Prereq: Admission to TEP.

EDU 391F CHILDREN'S & YOUNG ADULT LITERATURE (4)

Common course number to be determined

Students explore the extensive body of literature for children and young adults. Students develop professional skills in using literature in a variety of cross-curricular applications in the instruction of children and young adults. Students explore various genres of fiction, nonfiction, and the oral tradition. Students read from a wide range of texts including but not limited to novels, folklore, mythology, Native American literature, poetry, film and play scripts, picture books, graphic novels, periodicals, and digital texts. Classic and award-winning materials are emphasized. Students develop an understanding of oral and folk traditions that preceded print and electronic publication, including indigenous oral traditions. Each student completes a reflective reading journal and an individualized research project. Experiential learning activities may include clinical experiences in the integration and use of children's and young adult literature in a variety of educational settings, and may include real-world experiences with teachers, librarians, and youth. (fall/spring on campus; summer via internet)

EDU 391H FIELD EXPERIENCE K-8 (4)

See *EDU 352 Field Experience K-8*

EDU 397A METHODS: K-8 INTEGRATED ARTS FOR ALL LEARNERS (4)

Pre-Fall 2010 UMW course: ED 376 Arts Methods for Elementary Teachers, and ED 379 Music for Elementary Teachers

Teacher Education candidates develop knowledge of and experience with effective methods, techniques, and materials for teaching visual arts, drama, and music to children as part of an integrated curriculum in the elementary grades. Candidates engage in creative and critical experiences with the arts. They design integrated arts instruction while learning how to document and assess student progress. Candidates work directly with children in microteaching or field experience. \$35 Course Fee. Prereq: Admission to TEP; must have completed courses in two different forms of artistic expression from: ART 101 (*ARTZ 100*), DR 101 (*THTR 101*), MUS 101 (*MUSI 103*), FA 101 (*ARTH 160*), or HHP 205 (*DANC 285*) and HHP 206 (*DANC 286*). (fall/spring)

EDU 397D METHODS: K-12 DRAMA (2)

Pre-Fall 2010 UMW course: DR 351 Classroom Drama Methods;
2010-11: *THTR 397 Methods: Drama for K-12*

Candidates develop an understanding of teaching drama as an art form as well as drama's use for learning about other subject areas. Focus is on the middle through senior high school setting. State and national standards in drama and theatre education are studied and concepts applied. Stimulating environments, materials, and tools are considered and safe methods practiced. Candidates develop teaching strategies in

improvisational drama and script development, drama history and literature, staging and spectacle techniques, and film and theatre analysis and criticism. Effective techniques for assessing students' progress in the arts are modeled and practiced. Peer teaching and field experiences are required. \$25 Course Fee. Prereq: Admission to TEP and completion of all drama courses required for the Minor; or c/i. (fall)

EDU 397H METHODS: K-8 HEALTH EDUCATION (4)

Pre-Fall 2012 UMW course: HHP 374 Elementary School Health & Physical Education (& Practicum);

Effective Fall 2013: HEE 302 *Methods of Instructional Strategies in Elementary Physical Education*

EDU 397L METHODS: K-8 LANGUAGE ARTS & SOCIAL STUDIES FOR ALL LEARNERS (4)

Pre-Fall 2010 UMW courses: ED 370/371 Teaching Language Arts & Reading with Children's Literature in the Elementary School/Practicum, and ED 334/335 Teaching Social Studies in the Elementary School/Practicum

Candidates will demonstrate knowledge of the major concepts of social studies and language arts instruction in a K-8 classroom. Candidates will demonstrate skills in using developmentally appropriate practices to ensure that all students can learn in a positive environment. Candidates will incorporate social studies and language arts within lesson plans, while creating instructional frameworks for the integrated study of other subjects. Through micro-teaching or field experience, candidates demonstrate skills in teaching children how to read and write, with a focus on developing in children the joy of learning. Candidates demonstrate skills in using a variety of methods and strategies for literacy development, including the development of literacy for second language learners. Candidates learn to plan a balanced literacy program that includes integrated, thematic instruction. Multicultural topics, including issues and concepts relevant to Native American history and culture, citizenship, and guided decision-making are included. Candidates are assessed through development of lesson plans and a unit plan, designed to ensure that students with diverse learning needs are successful. Other assessments include quizzes, candidate-developed assessments, peer teaching, observations of teaching K-8 children, and portfolio items. Candidates' professional skills and dispositions are also assessed using an observation form. \$30 Course Fee. Prereq: Admission to TEP and ED 270 (EDU 233). (fall/spring)

EDU 397M METHODS: K-8 MUSIC (4)

Pre-Fall 2010 UMW course: ED 379 Music for Elementary Teachers

An activity-based exploration of techniques and materials relevant to the instruction of music in the elementary classroom. Prereq: Admission to TEP, and either MUS 101 (MUSI 103) or 2 credits of any MUS 116 (MUSI 114), MUS 165 (MUSI 147), MUS 316 (MUSI 314), MUS 365 (MUSI 312). (fall/spring)

EDU 397S METHODS: K-8 SCIENCE & MATHEMATICS INQUIRY FOR ALL LEARNERS (4)

Pre-Fall 2010 UMW courses: ED 332/333 Teaching Science Through Inquiry in the Elementary School/Practicum, and ED 377/378 Teaching Mathematics in the Elementary School/Practicum

Candidates develop K-8 science and mathematics instruction and assessments that are aligned with state and national standards and the principles of universal design for learning. Candidates gain familiarity with instructional methods and materials appropriate for teaching content and problem-solving skills, primarily through inquiry and experiential learning. Candidates develop skills in integrated instruction, incorporating mathematics, physical science, earth and space science, and life science. Infused topics include technology, lab safety, cooperative learning, assessment, environmental education, and Indian Education for All. Students will demonstrate skills working with children in field experiences or micro-teaching related to science and mathematics instruction. \$15 Course Fee. Prereq: Admission to TEP. (fall/spring)

EDU 438 LITERACY ASSESSMENT, DIAGNOSIS, & INSTRUCTION (4)

Pre-Fall 2010 UMW course: ED 381 Introduction to Literacy Assessment & Instruction, and ED 382 Literacy Practicum: Struggling Readers Grades 1-4/EDU 439 *Practicum: Literacy Assessment, Diagnosis, & Instruction*

An introduction to informal and formal reading and writing assessments and instructional strategies to accommodate variations in the K-8 literacy program. Students will learn how to modify instruction strategies to meet the needs of struggling readers and writers as well as those who are in need of motivation and greater reading challenges. Course requires readings, assessment projects, tutoring, and informal evaluations of literacy growth. Required for Elementary Education Major and Literacy Minor. \$15 Course Fee. Prereq: EDU 233 or ED 270; and admission to TEP or verification that student is a certified teacher. (fall/spring)

EDU 442 FAMILY, COMMUNITIES, CULTURE (3)

Pre-Fall 2010 UMW course: ED 422 Family, Communities, Culture;

Effective 2012-13: EDEC 410 *Family, Communities, Culture*

EDU 447 COACHING & MENTORING ADULTS (3)

Pre-Fall 2010 UMW course: ED 457 Coaching & Mentoring Adults;

Effective 2012-13: EDEC 460 *Mentoring & Coaching in Early Childhood Education*

EDU 448 ADVANCED LITERACY ASSESSMENT, DIAGNOSIS, & INSTRUCTION (4)

Pre-Fall 2010 UMW course: ED 446 Advanced Literacy Assessment, Diagnosis, & Instruction K-12, and ED 447 Literacy Practicum: Advanced Literacy Assessment, Diagnosis, & Instruction K-12/EDU 458 *Practicum: Advanced Literacy, Assessment, Diagnosis & Instruction*

This is an advanced assessment class that will explore theories of literacy variabilities and the various forms of literacy assessment and instruction appropriate for K-12 classroom and clinical situations. Standardized tests, performance-based assessment, portfolios, and multiple forms of informal assessments will be examined. Candidates will apply their knowledge through participation in writing and conducting a case study through tutoring. Required for the Literacy Minor. \$15 Course Fee. Prereq: EDU 438 or ED 381; and admission to TEP or verification that student is a certified teacher. (fall)

EDU 481 CONTENT AREA LITERACY (2)

Pre-Fall 2010 UMW course: ED 445 Methods of Teaching Content Area Literacy

Developmentally appropriate practice and literature for teaching reading and writing in the middle and high school will be addressed to include the study of language, oral, visual, and written literacy, print and non-print media, and technology. Various methods and strategies for teaching comprehension, reading, writing, and study skills will be examined across the 5-12 curriculum. Prereq: Admission to TEP or verification that student is a certified teacher. (fall/spring)

EDU 489 RESEARCH & PROFESSIONALISM IN LITERACY EDUCATION (4)

Pre-Fall 2010 UMW course: ED 460 Professionalism & Research in Literacy Education, and ED 461 Capstone Literacy Practicum: Struggling Readers Grades K-12/EDU 459 *Practicum: Capstone Literacy Education*

This is a capstone course in literacy education that will provide methods and tools for continuing professional development of the teaching candidate. The student will choose a particular literacy focus and develop an action research project to be presented to others as a seminar or conference, also planned and implemented as a course requirement. The focus may be on literacy in the school or literacy in the community. Other research methods and resources will be explored, particularly in relation to scientifically-based methods of reading instruction. Highly participatory and interactive course in which students volunteer to work in either an elementary or secondary classroom. Required for the Literacy Minor. \$15 Course Fee. Prereq:

EDU 448 or ED 446; and admission to TEP or verification that student is a certified teacher. (spring)

EDU 491A RESPONSE TO INTERVENTION BEST PRACTICES (4)
See *EDSP 470 Response to Intervention Best Practices*

EDU 491B BEHAVIORAL PRINCIPLES OF LEARNING & TEACHING (4)
Pre-Fall 2011 UMW course: ED 434 Management of Exceptional Learners;
Effective 2012-13: *EDSP 434 Behavioral Principles of Learning & Teaching*

EDU 491D EDUCATIONAL MANAGEMENT & DISCIPLINE FOR SECONDARY EDUCATION (4)
Common course number to be determined

Teacher education candidates examine research on classroom management, with emphasis on strategies for positive student interaction and motivation, positive behavioral interventions, and principles of universal design for learning. Candidates develop and implement Action Research. A one-week field experience in a public school setting with an emphasis on co-teaching is incorporated within the course. Candidates will remain in the field experience school for the full school day. Assessment is based on exams, a classroom management plan, teaching video-analysis, Teacher Work Sample, and professional observation form. \$60 Course Fee. Prereq: Admission to TEP; taken in semester prior to student teaching. (fall/spring)

EDU 491G METHODS OF INSTRUCTION FOR STUDENTS WITH HIGH INCIDENCE DISABILITIES (4)
Pre-Fall 2010 UMW course: ED 431 Methods & Materials for Students with Learning Disabilities & Cognitive Delay;
Effective 2012-13: *EDSP 464 Methods of Instruction for Students with High Incidence Disabilities*

EDU 491H METHODS OF INSTRUCTION FOR STUDENTS WITH LOW INCIDENCE DISABILITIES (4)
See *EDSP 303 Teaching Students with Intellectual Disabilities*

EDU 491I INTERVENTION FOR STUDENTS WITH SEVERE BEHAVIOR & SOCIAL DISABILITIES (4)
See *EDSP 302 Teaching Students with Emotional Disturbance*

EDU 492 INDEPENDENT STUDY (V 1-4)
Pre-Fall 2010 UMW course: ED 490 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

EDU 495A STUDENT TEACHING: K-12 (V 2-15) R
Pre-Fall 2010 UMW course: ED 474 Student Teaching K-12
A full-time supervised clinical practicum at a school location approved by the Director of Field Experiences for candidates pursuing a K-12 endorsement. A seminar at the university campus is incorporated near the completion of student teaching. Number of days for student teaching varies based on the candidate's particular combination of endorsement areas. Evaluation of student teaching is based on various evaluation and observation forms, and the Phase III portfolio. \$150 Course Fee. Prereq: Admission to Student Teaching and c/dfe. (fall/spring)

EDU 495K STUDENT TEACHING: K-8 (V 2-15) R
Pre-Fall 2010 UMW course: ED 472 Student Teaching-Elementary
A full-time supervised clinical practicum at a school location approved by the Director of Field Experiences. A seminar at the university campus is incorporated near the completion of student teaching. Number of days for student teaching varies, based on the candidate's particular combination of endorsement areas. Evaluation of student teaching is based on various evaluation and observation forms, and the Phase III portfolio. \$150 Course Fee. Prereq: Admission to Student Teaching and c/dfe. (fall/spring)

EDU 495S STUDENT TEACHING: 5-12 (V 2-15) R

Pre-Fall 2010 UMW course: ED 473 Student Teaching-Secondary
A full-time supervised clinical practicum at a school location approved by the Director of Field Experiences. A seminar at the university campus is incorporated near the completion of student teaching. Number of days for student teaching varies based on the candidate's particular combination of endorsement areas. Evaluation of student teaching is based on various evaluation and observation forms, and the Phase III portfolio. \$150 Course Fee. Prereq: Admission to Student Teaching and c/dfe. (fall/spring)

EDU 497C METHODS: 5-12 INTEGRATED LITERATURE & COMPOSITION II (4)

Pre-Fall 2011 UMW course: ENG 353 Methods of Teaching Literature

This course gives students both theory and experience in teaching English language arts and focuses on integrating strategies for teaching Montana Content Standards in literature, reading, speaking and listening, and media literacy. Students are expected to demonstrate their understanding through lesson planning, microteaching, projects, and other assignments. The course includes lecture, group discussions, and cooperative learning. Professional education field experience in a school required. \$25 Course Fee. Prereq: Admission to TEP. Coreq: ENG 352 (*EDU 497L*) in same semester. (fall)

EDU 497H METHODS: 5-12 SOCIAL STUDIES (4)

Pre-Fall 2010 UMW course: ED 357 Methods & Materials in Social Science

Students will understand and apply methods, materials, and state and national standards in teaching the social sciences as recommended by the National Council for the Social Studies. Activities and assessment include microteaching, field experience, teacher, instructor, and peer critiques, analysis essays, in-class writings, oral presentations, readings, demonstrations, using primary sources, writing integrated, thematic units and lesson plans, critiquing methodology and textbooks, applying history workshop concepts, and using technology. Professional education field experience in a school required. \$25 Course Fee. Prereq: Admission to TEP. (fall)

EDU 497L METHODS: 5-12 INTEGRATED LITERATURE & COMPOSITION I (4)

Pre-Fall 2011 UMW course: ENG 352 Methods of Teaching Composition

This course gives students both theory and experience in teaching English language arts and focuses on strategies for teaching Montana Content Standards in writing. Students are expected to demonstrate their understanding through lesson planning, microteaching, projects, and other assignments. The course includes lecture, group discussions, and cooperative learning. Professional education field experience in a school required. \$25 Course Fee. Prereq: Admission to TEP. Coreq: ENG 353 (*EDU 497C*) in same semester. (fall)

EDU 497M METHODS: 5-12 MATHEMATICS (4)

Pre-Fall 2009 UMW course: MATH 351 Methods & Materials in Mathematics

2009-11: *M 341 Methods & Materials in Mathematics*

Upon successful completion of this course, the student should be familiar with current trends in the methods and materials used for effective teaching of mathematics. The student should exhibit competence in developing unit and lesson plans, expository and inquiry-based instruction, forms of professional development, theories of instruction, the appropriate use of technologies in instruction, and skills in effective communication with students and peers on mathematical and professional educator topics. Professional education field experience in a school required. \$25 Course Fee. Prereq: Admission to TEP and MATH 341 (*M 329*) grade C- or higher; or c/i. (spring)

EDU 497S METHODS: 5-12 SCIENCE (4)

Pre-Fall 2010 UMW course: ED 355 Methods & Materials of Experiential Science Education

Students will develop an understanding of the theory and practice of secondary science teaching and will apply that knowledge to the secondary education classroom and outdoor learning environments. Students will develop skills in planning instruction and designing classroom environments that incorporate science inquiry, laboratory safety, environmental science, performance-based assessment, and cooperative learning. Students will develop skills in aligning instruction and assessment with state and national standards. Professional education field experience in a school required. \$125 Course Fee. Prereq: Admission to TEP. Preferably, students will take this course in the semester prior to student teaching. (fall)

EDU 498 INTERNSHIP (V 2-12)

Pre-Fall 2010 UMW course: ED 400 Cooperative Education/Internship, ED 475 Teaching Internship, and ED 476 Licensure Internship Work closely with the UMW Department of Education Director of Field Experiences to develop the criteria for the internship, and complete the paperwork for the internship contract. The internship is used for three categories of students:

- (1) Students who wish to complete an appropriate internship/work experience as part of their degree may complete a one-semester

internship, number of credits to be determined in consultation with the Director of Field Experiences.

- (2) Candidates who are pursuing a teaching license and already have a non-teaching degree from an accredited college. These candidates must have completed a major that is suitable for teaching licensure in Montana and is an approved teaching major at UMW. Candidates may have more than one teaching major or minor, but must have at least one teaching major. They must have been admitted to the UMW Teacher Education Program; have obtained a Class 4 or Class 5 license in the field for which they are seeking program completion; and have an offer for employment, or currently are employed, in an appropriate K-12 setting in the licensure field. These candidates must enroll in 4 credits of supervised internship every semester (with a minimum of two semesters) until all program requirements are met.
- (3) Teachers who already hold a Class 1 or Class 2 Montana teaching license and wish to add an additional endorsement. Teachers must complete the course requirements for the teaching major or minor, and will substitute the internship for student teaching. The teacher must enroll in 4 credits of supervised internship every semester (with a minimum of two semesters) until all program requirements are met. Prereq: c/dfc. (fall/spring/summer)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ENG—English

[For CCN equivalent courses, see appropriate rubric & course listed beneath individual courses]

ENG 102 FOUNDATIONS OF LANGUAGE (4)

See *WRIT 101 College Writing I*

ENG 112 PERFORMING LITERARY TEXTS (4)

See *COMX 217 Oral Interpretation of Literature*

ENG 162 FOLK & FAIRY TALES (4)

See *LIT 162 Folk & Fairy Tales*

ENG 163 FANTASY & SCIENCE FICTION (4)

See *LIT 163 Fantasy & Science Fiction*

ENG 166 LITERATURE & POLITICS (4)

See *LIT 166 Literature & Politics*

ENG 167 LITERATURE & GENDER (4)

See *LIT 167 Literature & Gender*

ENG 168 LITERATURE & THE ENVIRONMENT (4)

See *LIT 168 Literature & The Environment*

ENG 169 LITERATURE AS POPULAR CULTURE (4)

See *LIT 169 Literature as Popular Culture*

ENG 204 CREATIVE WRITING WORKSHOP (4)

See *CRWR 240 Introduction to Creative Writing Workshop*

ENG 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ENG 263 EARLY AMERICAN VOICES (4)

See *LIT 210 American Literature I*

ENG 264 AMERICAN ROMANCE (4)

See *LIT 264 American Romance*

ENG 265 REALISTS, NATURALISTS, MODERNISTS (4)

See *LIT 265 Realists, Naturalists, Modernists*

ENG 266 GENERATIONS & CONFLICTS (4)

See *LIT 266 Generations & Conflicts*

ENG 273 THE ORAL TRADITION (4)

See *LIT 273 Oral Literature*

ENG 274 THE MANUSCRIPT TRADITION (4)

See *LIT 274 The Manuscript Tradition*

ENG 275 THE PRINT CULTURE (4)

See *LIT 277 The Print Culture*

ENG 276 THE DECLINING EMPIRE (4)

See *LIT 276 The Declining Empire*

ENG 279 FUNDAMENTALS OF LITERARY THEORY (4)

See *LIT 300 Literary Criticism*

ENG 280 VISIONS OF AMERICA (4)

See *LIT 218 Visions of America*

Students with scores within ranges indicated below may be admitted to 200-level English courses prior to taking ENG 102 (*WRIT 101*), or with consent of instructor (c/i):

10-12 on the Writing Subscore or an equivalent score on the Combined English/Writing section of the Optional Writing Test of the ACT; or 10-12 on the Essay or an equivalent score on the Writing Section of the SAT; or

5-6 on the Montana University System Writing Assessment; or 4-5 on the AP English Language or English Literature Examination.

All students are required to successfully complete ENG 102 (*WRIT 101*) or its equivalent for General Education credit.

ENG 290 INDEPENDENT STUDY (V 1-4)

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

Department recommendation: students registering for any 300- or 400-level English course be sophomores in good standing, or receive c/i.

ENG 301 POETRY WORKSHOP (4)

See *CRWR 311 Intermediate Poetry Workshop*

ENG 302 FICTION WORKSHOP (4)

See *CRWR 310 Intermediate Fiction Workshop*

ENG 303 NONFICTION WORKSHOP (4)

See *CRWR 312 Intermediate Nonfiction Workshop*

ENG 313 WRITING FOR PUBLICATION (4)

See *WRIT 313 Writing for Publication*

ENG 314 EDITORIAL WORKSHOP (4)

A workshop in which students will gain expertise in the various different skills required by the publishing industry, such as editing, organizing circulation, advertising, desktop publishing, and acquiring submissions. (spring **even-numbered years**)

ENG 320 LITERATURE IN TRANSLATION (4)

See *LIT 302 Literature in Translation*

ENG 330 MYTHOLOGY (4)

See *LIT 285 Mythologies*

ENG 339 LITERARY REGIONS (4)

See *LIT 339 Literary Regions*

ENG 350 TECHNICAL & PROFESSIONAL COMMUNICATIONS (4)

See *WRIT 321 Advanced Technical Writing*

ENG 352 METHODS OF TEACHING COMPOSITION (4)

See *EDU 497L Methods: 5-12 Integrated Literature & Composition I*

ENG 353 METHODS OF TEACHING LITERATURE (4)

See *EDU 497C Methods: 5-12 Integrated Literature & Composition II*

ENG 361 POETRY & THOUGHT (4)

See *LIT 361 Poetry & Thought*

ENG 362 SEMINAR IN WOMEN'S LITERATURE (4)

See *LIT 335 Women & Literature*

ENG 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

Incorporates an appropriate work experience into students' academic preparation. Students apply their knowledge and skills

in professional settings under supervision. Prereq: Senior standing and c/i. (fall/spring)

ENG 401 ADVANCED POETRY WORKSHOP (4)

See *CRWR 411 Advanced Poetry Workshop*

ENG 402 ADVANCED FICTION WORKSHOP (4)

See *CRWR 410 Advanced Fiction Workshop*

ENG 403 ADVANCED NONFICTION WORKSHOP (4)

See *CRWR 412 Advanced Nonfiction Workshop*

ENG 409 SEMINAR (V 1-4)

See *LIT 494 Seminar/Workshop*

ENG 413 HISTORY, STRUCTURE, & NATURE OF LANGUAGE (4)

See *LING 413 History, Structure, & Nature of Language*

ENG 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

ENG/DR 441 DRAMA HISTORY & LITERATURE GENRE (4)

See *LIT 441 Drama History & Literature Genre*

ENG 452 SEMINAR IN LITERARY PERIOD (4) R

See *LIT 494 Seminar: Literary Period*

ENG 453 GENRE SEMINAR (4) R

See *LIT 494 Seminar: Genre*

ENG 454 AUTHORS SEMINAR (4)

See *LIT 494 Seminar: Major Authors*

ENG/DR 455 SHAKESPEARE (4)

See *LIT 473 Studies in Shakespeare*

ENG 479 SEMINAR IN LITERARY THEORY (4)

See *LIT 479 Studies in Literary Theory*

ENG 490 INDEPENDENT STUDY (V 1-4)

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ENG 498 SENIOR PROJECT/THESIS (V 1-15)

An individual project or thesis closely associated with the student's academic program and career goals. Student works with one selected faculty member. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ENSC—Environmental Sciences

[New CCN rubric effective Fall 2011]

ENSC 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2011 UMW course: ENVS 290 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ENSC 348 SOIL SCIENCE (4)

Pre-Fall 2011 UMW course: ENVS 348 Soil Science
This course introduces students to soils and their properties as components of landscapes and ecosystems. Students study the interaction of the basic soil-formation parameters: geologic

materials, climate, biological components, land surface, and time. Lectures, labs, and research activities focus on soil-forming processes, soil morphology, soil classifications, soil engineering properties, natural soil landscapes, and soil nutrient cycling. A large part of the class involves field examination, description, and classification of soils and their landscapes. Students will demonstrate their understanding of the material in exams, research reports, lab and field activities, and a major field project applying soils knowledge to a problem in environmental sciences. \$100 Course Fee. Prereq: demonstrated math ability at MATH 007

(M 095) or higher; and either CHEM 101 (*CHMY 121*) or CHEM 131 (*CHMY 141*); and either BIO 101 (*BIOB 101*), BIO 111 (*BIOB 160*), or BIO 112 (*BIOB 170*); and either GEOL 101 (*GEO 101*) or GEOL 150 (*GEO 103*); or c/i. (spring/odd-numbered years)

ENSC 394 SEMINAR: GEOGRAPHIC INFORMATION SYSTEMS (2)

2011-12 UMW course: *ENSC 391 Seminar: Geographic Information Systems*

This course introduces students to the industry-standard geographic information systems (GIS) technology (specifically ArcGIS) in a seminar format. Students learn the basics of GIS technology and apply their knowledge in a major field and lab project that includes individual and group presentations of results. Sometimes the class will include a public presentation and/or service-learning component. Students are assessed based on their successful completion of computer exercises, homework, project work, and presentations. Completion of the general education curriculum and ENVS 269 recommended, but not required, before taking this class. \$200 Course Fee via UMW Outreach. (fall)

ENSC 429 ENVIRONMENTAL FIELD STUDIES (4)

Pre-Fall 2011 UMW course: ENVS 429 Environmental Field Studies
Students taking this field-based class will work as a team to design and perform field research and produce written and oral reports concerning a research, natural resource inventory, and/or environmental assessment problem. A multi-disciplinary approach to problem-solving is incorporated. Student evaluation will be based on quantity and quality of personal contribution to the project effort, ability to function in a team environment, peer review, effectiveness of field approach, and demonstrations of written and oral communication skills. May have a service learning component. \$100 Course Fee. Prereq: Junior/Senior standing; or c/i. (fall)

ENSC 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2011 UMW course: ENVS 490 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ENSC 494 SEMINAR/WORKSHOP (V 1-4)

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

ENSC 494P SEMINAR: PUBLIC PRESENTATION (1)

2010-11 UMW course: ENVS 495 Internship/Thesis Presentation
Students will prepare and deliver a professional public presentation outlining their work on either an internship or senior thesis. This presentation will generally be performed at the annual spring campus research symposium, or occasionally at another professional venue as approved by the student's advisor. Pass/Fail. Prereq or Coreq: ENVS 400 (*ENSC/ENST 498*), or ENVS 498 (*ENSC/ENST 499*); and c/i. (fall/spring)

ENSC 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2011 UMW course: ENVS 400 Cooperative Education/ Internship
Incorporation of an appropriate work experience into the student's academic preparation. Prereq: Junior/Senior standing, c/i, c/pc, and c/vc. (fall/spring)

ENSC 499 SENIOR PROJECT/THESIS (V 1-15)

Pre-Fall 2011 UMW course: ENVS 498 Senior Project/Thesis
An individual project or thesis closely associated with the student's academic program and career goals. Project/thesis election subject to approval of the Environmental Science department advisor. Prereq: Junior/Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ENST—Environmental Studies ***[New CCN rubric effective Fall 2011]***

ENST 275 ENVIRONMENTAL INTERPRETATION I (4)

Pre-Fall 2011 UMW course: ENVS 280 Environmental Interpretation I

The purpose of this course is to define, describe, and expand "interpretation" as a communication process in environmental education. Students will practice preparing and delivering interpretive programs that are enjoyable, thematic, organized, and relative, balance the scientific bases of such programs with the artistic delivery of the same programs rendering them "compelling", recount measures by which the interpretive process might impact the very resource areas that the same educational process was designed to protect, and explain how the instruction of what is in the environment might lead the learner to love and protect that environment. Students will be assessed through three short oral interpretive talks, exams, essay, and an interpretive group project. \$75 Course Fee. Prereq: BIO 112 (*BIOB 170*) and GEOL 150 (*GEO 103*). (fall)

ENST 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2011 UMW course: ENVS 290 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ENST 382 ENVIRONMENTAL LAW (4)

Pre-Fall 2011 UMW course: ENVS 381 Natural Resource Law
The student will be introduced to the federal and state constitutional issues, statutes, regulations, and legal practices involved with environmental laws. Specific constitutional provisions and federal and state statutes will be examined in depth. The course will develop the necessary information and applications required by current practitioners, land owners, or citizens involved in environmental stewardship management. Students will demonstrate their learning by successful completion of exams and research papers and in-class discussions of readings. Prereq: Junior/Senior standing. (on demand)

ENST 472 ENVIRONMENTAL EDUCATION (4)

Pre-Fall 2011 UMW course: ENVS 452 Environmental Education
This course is designed for students interested in outdoor and environmental education. Students will learn the history of and approaches to experiential and environmental education. Through readings, class discussions, and experiential class activities and field trips, students will develop an appreciation for the nature of environmental education, as well as the importance of the connection between humans and their environment. Through class projects, discussions, and writing assignments, students will demonstrate their ability to develop a sense of connection with their environment and the natural world around them and to help instill this in others. \$45 Course Fee. Prereq: c/i. (fall)

ENST 475 ENVIRONMENTAL INTERPRETATION II (4)**Pre-Fall 2011 UMW course:** ENVS 480 Environmental Interpretation II

Students will further develop their skills to become professional environmental interpreters. In this class, students will examine key examples of the literature of environmental interpretation and the contributions of selected, significant naturalists from the late 18th century to present. In addition, this course teaches advanced creative approaches to methods for establishing effective programming featuring environmental themes. It addresses specific techniques for diverse audiences, especially those fostering science education, natural history, wildlife, and ecology topics. Students will be assessed through a 45-minute oral interpretive talk based on a shadowing experience that takes place throughout the block and a large group interpretive project. \$100 Course Fee. Prereq: ENVS 280 (*ENST 275*). (spring)

ENST 492 INDEPENDENT STUDY (V 1-4)**Pre-Fall 2011 UMW course:** ENVS 490 Independent Study

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ENST 494 SEMINAR/WORKSHOP (V 1-4)

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

ENST 494P SEMINAR: PUBLIC PRESENTATION (1)**2010-11 UMW course:** ENVS 495 Internship/Thesis Presentation

Students will prepare and deliver a professional public presentation outlining their work on either an internship or senior thesis. This presentation will generally be performed at the annual spring campus research symposium, or occasionally at another professional venue as approved by the student's advisor. Pass/Fail. Prereq or Coreq: ENVS 400 (*ENSC/ENST 498*), or ENVS 498 (*ENSC/ENST 499*); and c/i. (fall/spring)

ENST 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)**Pre-Fall 2011 UMW course:** ENVS 400 Cooperative Education/ Internship

Incorporation of an appropriate work experience into the student's academic preparation. Prereq: Junior/Senior standing, c/i, c/pc, and c/vc. (fall/spring)

ENST 499 SENIOR PROJECT/THESIS (V 1-15)**Pre-Fall 2011 UMW course:** ENVS 498 Senior Project/Thesis

An individual project or thesis closely associated with the student's academic program and career goals. Project/thesis election subject to approval of the Environmental Science department advisor. Prereq: Junior/Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ENVS—Environmental Science

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses.]

ENVS 101 CAREER ORIENTATION FOR WILDLANDS GUIDES (1)

A look at professional opportunities as a naturalist, back country guide, and outfitter business person in both the public and private sector. A preview of the training needed for these professions. The course results in the completion of the five core courses of the Professional Guide Institute (origins and mission of the background guide, our wildland heritage, back country leadership, wildlands interpretation, and outfitter operations). Performance-based assessment. (fall)

ENVS/HHP 150 BASIC ROCK CLIMBING (1)

See *ACT 114 Beginning Rock Climbing*

ENVS 180 APPLIED SUSTAINABLE LANDSCAPE HORTICULTURE (4)

This primarily field-based class will allow students to study and practice the way human beings—as individuals and societies—can participate in the creation of ethical and ecological support systems. The course is designed to introduce students to the scientific principles of sustainable landscape design and horticulture. Students will become integrated in the campus gardening and compost project where their research and findings will become part of a long-term experiment monitoring and testing microbial succession and species composition of soil used in the garden. Students will be evaluated through the application of quizzes, exams, group and individual projects. \$55 Course Fee. (fall/even-numbered years)

ENVS/PHIL 201 HISTORY & PHILOSOPHY OF SCIENCE (4)

See *PHL 241 History & Philosophy of Science*

ENVS 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ENVS 260 WILDLANDS SKILLS (2) R-8

Each specific topic taught in this field-based course will concentrate on a particular skill related to education, recreation, lore, or survival in wildlands. The skill areas offered may include backpacking, basic camping, campfire programs, horseparking, mountaineering, night sky

interpretation, primitive living skills, rock climbing, white water boating, wilderness medicine, winter camping, or others. The student will gain knowledge of equipment, techniques, and processes for exploring our wild places. Emphasis is on low impact use of wildlands resources. Courses include a practicum. \$80 Course Fee. (fall/spring)

ENVS 269 WILDLANDS SKILLS: MAP, COMPASS, & GPS (2)

Students will develop skills in map reading, use of a magnetic compass, altimeters, and Global Position System (GPS) receivers. Students will learn to describe a position by use of Latitude and Longitude, Universal Transverse Mercator, and U.S. Public Land Survey grid systems. Students will apply learned GPS skills to execute traverses of land parcels and determine the location of private and public land ownerships. Students will develop skills in CD-Rom map programs and the downloading of GPS receiver waypoints and traverses onto CD-Rom maps. Learned skills will be practiced on local field trips. \$40 Course Fee. Prereq: equivalent of MATH 007 (*M 095*) or higher; or c/i.

ENVS 280 ENVIRONMENTAL INTERPRETATION I (4)

See *ENST 275 Environmental Interpretation I*

ENVS 290 INDEPENDENT STUDY (V 1-4)

See *ENSC/ENST 292 Independent Study*

ENVS 329 NATURAL RESOURCE ISSUES (4)

See *NRSM 329 Natural Resource Issues*

ENVS 348 SOIL SCIENCE (4)

See *ENSC 348 Soil Science*

ENVS 372 OUR WILDLAND HERITAGE (4)

See *NRSM 372 Our Wildland Heritage*

ENVS 381 NATURAL RESOURCE LAW (4)

See *ENST 382 Environmental Law*

ENVS 384 GEOGRAPHIC INFORMATION SYSTEMS WORKSHOP (2)

This class will serve as a broad introduction to using the industry-standard ArcGIS geographic information systems software available on campus. In the computer lab, students will complete a professor-guided tutorial program on the use of the software, learn additional enriching applications, participate in discussions related to GIS applications in field sciences, and apply what they learn to a group project in the environmental sciences. The class will have a field component in which students will use GPS technology to collect data and work with it in GIS format. Assessment will be based on successful completion of the tutorial program and participation in the discussions and applied project. Participants who successfully complete the workshop will receive an ESRI Certificate of Completion. Pass/Fail. (spring/odd-numbered years)

ENVS 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *ENSC/ENST 498 Internship/Cooperative Education*

ENVS 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

ENVS 429 ENVIRONMENTAL FIELD STUDIES (4)

See *ENSC 429 Environmental Field Studies*

ENVS 441 SUSTAINABLE RESOURCE MANAGEMENT (4)

See *NRSM 441 Sustainable Resource Management*

ENVS 452 ENVIRONMENTAL EDUCATION (4)

See *ENST 472 Environmental Education*

ENVS 480 ENVIRONMENTAL INTERPRETATION II (4)

See *ENST 475 Environmental Interpretation II*

ENVS 490 INDEPENDENT STUDY (V 1-4)

See *ENSC/ENST 492 Independent Study*

ENVS 495 INTERNSHIP/THESIS PRESENTATION (1)

See *ENSC/ENST 494P Seminar: Public Presentation*

ENVS 498 SENIOR PROJECT/THESIS (V 1-15)

See *ENSC/ENST 499 Senior Project/Thesis*

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

EQST—Equine Studies

[For CCN equivalent courses, see appropriate rubric & course listed beneath individual courses]

EQST 101 INTRODUCTION TO EQUINE STUDIES (4)

See *EQUUS 101 Introduction to Equine Studies*

EQST 102 EQUINE SELECTION & JUDGING (4)

See *EQUUS 102 Equine Selection & Judging*

EQST 155 INTRODUCTION TO NATURAL HORSEMANSHIP: GAINING CONFIDENCE & RESPECT (3)

See *EQUH 155 Introduction to Natural Horsemanship: Gaining Confidence & Respect*

EQST 200 INTERNSHIP (4)

See *EQUH 298 Internship*

EQST 201 BASIC HORSE CARE & NUTRITION (4)

See *EQUUS 201 Basic Horse Care & Nutrition*

EQST 202 BASIC EQUINE SCIENCE I (4)

See *EQUUS 202 Equine Science I*

EQST 203 BASIC EQUINE SCIENCE II (4)

See *EQUUS 203 Equine Science II*

EQST 204 EQUINE FACILITIES MANAGEMENT (4)

See *EQUUS 204 Equine Facilities Management*

EQST 219 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision. Prereq: Sophomore standing, c/i, c/p/c, and c/vc. (on demand)

EQST/HHP 222 ELEMENTS OF RODEO (2)

See *EQUH 222 Elements of Rodeo*

EQST 252 NATURAL HORSEMANSHIP: BUILDING A RELATIONSHIP (3)

See *EQUH 252 Natural Horsemanship: Building a Relationship*

EQST 254 NATURAL HORSEMANSHIP: HARMONY WITH YOUR HORSE I (3)

See *EQUH 254 Natural Horsemanship: Harmony With Your Horse I*

EQST 255 NATURAL HORSEMANSHIP: HARMONY WITH YOUR HORSE II (3)

See *EQUH 255 Natural Horsemanship: Harmony With Your Horse II*

EQST 290 INDEPENDENT STUDY IN NATURAL HORSEMANSHIP (V 1-4)

See *EQUH 292 Independent Study: Natural Horsemanship*

EQST 346 EQUINE REPRODUCTIVE MANAGEMENT (4)

See *EQUUS 346 Equine Reproductive Management*

EQST 351 NATURAL HORSEMANSHIP: REFINING THE FOUNDATION I (4)

See *EQUH 351 Natural Horsemanship: Refining the Foundation I*

EQST 352 NATURAL HORSEMANSHIP: REFINING THE FOUNDATION II (4)

See *EQUH 352 Natural Horsemanship: Refining the Foundation II*

EQST 369 HERD HEALTH MANAGEMENT PRACTICUM (V 1-4) (R)

See *EQUUS 395 Herd Health Management Practicum*

EQST 400 NATURAL HORSEMANSHIP INTERNSHIP (4)

See *EQUH 498 Natural Horsemanship Internship*

EQST 401 ADVANCED HORSE CARE & NUTRITION (4)

See *EQUUS 425 Advanced Horse Care & Nutrition*

EQST 404 CONTEMPORARY ISSUES & ETHICS IN THE EQUINE INDUSTRY (4)

See *EQUH 404 Contemporary Issues & Ethics in the Equine Industry*

EQST 409 SEMINAR (V 1-4)

See *EQUH 494 Seminar*

EQST 419 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i, c/pc, and c/vc. (on demand)

EQST 453 YOUNG HORSE STARTING & DEVELOPMENT (4)

See *EQUH 453 Young Horse Starting & Development*

**EQST 454 EQUINE BEHAVIOR & THE DEVELOPMENT OF
NATURAL HORSEMANSHIP (4)**
See *EQUH 454 Equine Behavior*

EQST 490 INDEPENDENT STUDY (V 1-4)
See *EQUH/EQUS 492 Independent Study*

EQST 498 SENIOR THESIS (2)
See *EQUS 499 Senior Thesis/Capstone*

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

EQUH—Equine Horsemanship ***[New CCN rubric effective Fall 2011]***

EQUH 155 INTRODUCTION TO NATURAL HORSEMANSHIP: GAINING CONFIDENCE & RESPECT (3)

Pre-Fall 2011 UMW course: EQST 155 Introduction to Natural Horsemanship: Gaining Confidence & Respect
The student will gain an understanding of the basic concepts of natural horsemanship, first via groundwork, and then riding. Using a natural approach, the student will learn and implement a number of basic maneuvers to gain the horse's respect and confidence. These activities will increase the student's awareness of safety issues around horses and will increase the student's ability to read the horse's body language. The student will begin to understand the importance of feel, timing, and balance when working with horses. The student will learn safe and efficient saddle techniques and how to safely mount the horse. In the saddle, the student will learn the fundamentals of rein position and will practice control of the horse in the gaits of walk and trot. In addition to mastery of the theory and ideology of natural horsemanship, students must also demonstrate their competency and mastery of covered techniques by their correct application of skills sets with their horse both on the ground and under saddle. Students will demonstrate their understanding of course material via class participation, written field and research reports, and examinations. Prereq: Acceptance into Natural Horsemanship program, with a suitable horse with required vaccinations; or c/i.

EQUH 222 ELEMENTS OF RODEO (2)

Pre-Fall 2011 UMW course: HHP/EQST 222 Elements of Rodeo
The Elements of Rodeo courses focus on National Intercollegiate Rodeo Association (NIRA) events: bareback riding, steer wrestling, saddle bronc riding, tie down roping, team roping, goat tying, breakaway roping, and barrel racing. Rules governing a selected event, techniques of competition, and responsibilities of NIRA athletes are presented. Students will apply fitness and wellness concepts, injury prevention measures, basic injury care, and winning physical and mental strategies to human and equine athletes competing in the event. (fall/spring)

EQUH 252 NATURAL HORSEMANSHIP: BUILDING A RELATIONSHIP (3)

Pre-Fall 2011 UMW course: EQST 252 Natural Horsemanship:
In this course, the student will learn how to get the horse to respond at a new level. In *EQST/EQUH 155*, the goal was to develop respect and confidence. The student will develop more feel, better timing, and more harmony with the horse. The student will learn about impulsion and how to use reins less and the seat more while in the saddle. In addition to mastery of the theory and ideology of natural horsemanship, students must also demonstrate their competency and mastery of covered techniques by their correct application of skills sets with their horse, both on the ground and under saddle. If time permits, students will refine that respect and confidence to build a connection that will be tested by work at liberty (without a lead line and halter). Students will demonstrate their understanding of course material via class participation, written field and research reports, and examinations. Prereq: Acceptance into Natural Horsemanship program, and EQST 155 (*EQUH 155*), and horse evaluation; or c/i.

EQUH 254 NATURAL HORSEMANSHIP: HARMONY WITH YOUR HORSE I (3)

Pre-Fall 2011 UMW course: EQST 254 Natural Horsemanship:
Harmony With Your Horse I
The primary objective of this course will be to take the skills and knowledge learned in *EQST/EQUH 155* and *252* and further develop these skills so that the horse and the human achieve positive reflexes. Students will progress to using a higher level of communication on the ground, and see more of the relationship from ground to saddle. In the saddle, students will get harmony with the horse and gain knowledge of a horse's self-carriage and impulsion. The student will learn impulsion programs and the different patterns of different gaits. Students will also learn about the importance of "seat connection" while riding a horse and the importance of rein and feet connection. In addition to mastery of the theory and ideology of natural horsemanship, students must also demonstrate their competency and mastery of covered techniques by their correct application of skills sets with their horse, both on the ground and under saddle. Students will demonstrate their understanding of course material via class participation, written field and research reports, and examinations. Prereq: Acceptance into Natural Horsemanship program, and EQST 252 (*EQUH 252*); or c/i.

EQUH 255 NATURAL HORSEMANSHIP: HARMONY WITH YOUR HORSE II (3)

Pre-Fall 2011 UMW course: EQST 255 Natural Horsemanship:
Harmony With Your Horse II
Entering into this course, a student should have a thorough understanding of and have competent abilities both on the ground and in the saddle. The student will advance the skills, confidence, and respect gained on the ground by creating a stronger lead rope-to-feet connection. In the saddle, the horse and rider will develop more emotional collection, improving impulsion, and self-carriage in all three gaits. The increased harmony between ground connection developed through increased harmony between the horse and rider will prepare them for the next level of refinement. In addition to mastery of the theory and ideology of natural horsemanship, students must also demonstrate their competency and mastery of covered techniques by their correct application of skills sets with their horse, both on the ground and under saddle. Students will demonstrate their understanding of course material via class participation, written field and research reports, and examinations. Prereq: Acceptance into Natural Horsemanship program, and EQST 254 (*EQUH 254*); or c/i.

EQUH 292 INDEPENDENT STUDY: NATURAL HORSEMANSHIP (V 1-4)

Pre-Fall 2011 UMW course: EQST 290 Independent Study in Natural Horsemanship
This course allows the student to focus on a contemporary area of interest in the natural horsemanship area. The emphasis of the course will be on experiential learning. Students are expected to critically evaluate, analyze, and synthesize selected topics through authorship of an extensive course paper requiring independent research skills. Prereq: Sophomore standing, c/i, c/pc, and c/vc.

EQUH 298 INTERNSHIP (4)

Pre-Fall 2011 UMW course: EQST 200 Internship

This field experience provides a broader application of the techniques of horsemanship to a professional setting. Students work under the guidance of an equine professional with the support of a university faculty supervisor. Students will complete a series of written periodic reports and a portfolio in the form of a final comprehensive report on their experience. \$10/Credit Course Fee. Prereq: Sophomore standing, c/i, c/pc, and c/vc.

EQUH 351 NATURAL HORSEMANSHIP: REFINING THE FOUNDATION I (4)

Pre-Fall 2011 UMW course: EQST 351 Natural Horsemanship: Refining the Foundation I

In this course, the student uses skills including seat connection and impulsion patterns gained in EQST/EQUH 155 through 255 to focus toward refinement and suppleness. At this level, the student will gain more control of the horse's body and feet while maintaining softness through the reins. The goal of the next two courses is for the student to continually refine the foundation to allow for lateral movements, vertical flexion, impulsion, and rein-to-feet connection. In addition to mastery of the theory and ideology of natural horsemanship, students must also demonstrate their competency and mastery of covered techniques by their correct application of skills sets with their horse, both on the ground and under saddle. Students will demonstrate their understanding of course material via class participation, written field and research reports, and examinations. Prereq: Acceptance into Natural Horsemanship program, and EQST 255 (EQUH 255); or c/i.

EQUH 352 NATURAL HORSEMANSHIP: REFINING THE FOUNDATION II (4)

Pre-Fall 2011 UMW course: EQST 352 Natural Horsemanship: Refining the Foundation II

This course brings together the skills and knowledge gained in all previous natural horsemanship courses. The student and horse are now achieving a solid level of communication, both on the ground and in the saddle. This communication continues to be more refined, and the high level of confidence and respect between the horse and the student becomes evident. Upon completion of this course, the student and horse have all the ingredients of mental, emotional, and physical collection that is the foundation of horsemanship. The solid foundation will enable the student and horse to progress into whatever facet of horsemanship is desired. In addition to mastery of the theory and ideology of natural horsemanship, students must also demonstrate their competency and mastery of covered techniques by their correct application of skills sets with their horse, both on the ground and under saddle. Students will demonstrate their understanding of course material via class participation, written field and research reports, and examinations. Prereq: Acceptance into Natural Horsemanship program, and EQST 351 (EQUH 351); or c/i.

EQUH 404 CONTEMPORARY ISSUES & ETHICS IN THE EQUINE INDUSTRY (4)

Pre-Fall 2011 UMW course: EQST 404 Contemporary Issues & Ethics in the Equine Industry

In this course, students will gain knowledge of contemporary issues and current affairs in the equine industry. Over the last century, the perspective of horse ownership has changed; horses have moved from being utility to companion animals. This class will examine that important distinction along with the pertinent politics, any federal and state legislation, and the financial impacts of that transition. Subject material may vary year to year depending on the relevant topics that dramatically affect the equine industry. Ethics and concerns regarding horse use (breeding, buying, and selling horses, equine events and competitions) will be investigated. Students will demonstrate their

understanding of course material via class participation, written field and research reports, and examinations. Prereq: Senior standing; or c/i.

EQUH 453 YOUNG HORSE STARTING & DEVELOPMENT (4)

Pre-Fall 2011 UMW course: EQUH 453 Young Horse Starting & Development

This course involves the fundamentals of handling young horses from basic ground skills through initial rides under saddle and introduction to the snaffle bit. The horses used usually range from 2- to 3-years of age, and will have had little to no prior handling. This course requires a strong base of knowledge and skills gained in the previous horsemanship courses (EQST/EQUH 155 to 352). Working with young horses is a challenge, due to the unpredictable nature of horses, and requires the successful student to be physically, mentally, and emotionally fit. This is a demanding yet rewarding course that tests the student's previous knowledge and experience in natural horsemanship. Students will be directly assessed on their ability to apply acquired natural horsemanship techniques by demonstrating their competency, mastery, and positive progression through the training of these young horses. Prereq: EQST 352 (EQUH 352), and a suitable horse with appropriate vaccinations; or c/i.

EQUH 454 EQUINE BEHAVIOR (4)

Pre-Fall 2011 UMW course: EQST 454 Equine Behavior & The Development of Natural Horsemanship

In this capstone course, students will examine the fundamental behavioral characteristics of horses and recognize how these behaviors were utilized in the history and theory of horsemanship. The practical application of these theories will enable the graduate to identify normal and abnormal equine behaviors on an individual and herd level. Students will learn how to better interpret basic horse behaviors in relationship to current management and training practices. Finally, various equine vices or stereotypic behaviors will be discussed. Students will demonstrate their understanding of course material via class participation, written field and research reports, and examinations. \$40 Course Fee. Prereq: EQST 201 (EQUH 201), EQST 203 (EQUH 203), EQST 204 (EQUH 204), and EQST 352 (EQUH 352).

EQUH 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2011 UMW course: EQST 490 Independent Study

This advanced course allows the student to focus on a contemporary area of interest in the natural horsemanship area. The emphasis of the course will be on experiential learning. Students are expected to critically evaluate, analyze, and synthesize selected topics through authorship of an extensive course paper requiring independent research skills. Prereq: EQST 204 (EQUH 204), c/i, c/pc, and c/vc.

EQUH 494 SEMINAR (V 1-4)

Pre-Fall 2011 UMW course: EQST 409 Seminar

Selected topics of interest, with emphasis on experiential learning. Prereq: EQST 255 (EQUH 255) and c/i (demonstrated ability).

EQUH 498 NATURAL HORSEMANSHIP INTERNSHIP (4)

Pre-Fall 2011 UMW course: EQST 400 Natural Horsemanship Internship

This field experience provides a broader application of the techniques of natural horsemanship courses to a professional setting. Students work under the guidance of an equine professional with the support of a university faculty supervisor. Students will complete a series of written periodic reports and a portfolio in the form of a final comprehensive report on their experience. 40 hours of contact (work) for each hour of semester credit awarded. \$10/Credit Course Fee. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring/summer)

EQUUS—Equine Sciences

[New CCN rubric effective Fall 2011]

EQUUS 101 INTRODUCTION TO EQUINE STUDIES (4)

Pre-Fall 2011 UMW course: EQST 101 Introduction to Equine Studies

This course gives the student an overview of the equine world that will provide a basis for subsequent more practical and scientifically-based courses. This class will look at the evolution and behavior of the horse, the history of horsemanship, contemporary breeds and their uses, selection of an appropriate horse (including conformation and pre-purchase examinations), and insights into various career avenues within the equine industry. Students will be expected to demonstrate an understanding and comprehension of course content through class discussions of lecture material, course examinations, and other written assignments. \$40 Course Fee.

EQUUS 102 EQUINE SELECTION & JUDGING (4)

Pre-Fall 2011 UMW course: EQST 102 Equine Selection & Judging

2011-13 UMW course: *EQUUS 102 Horse Conformation & Selection*

This class covers basic conformation while stressing the importance of form to desired function. The students will learn judging methods and procedures for various types of judging contests, Western and English classes, shows, events, and other related topics. Professional conduct at these types of events will be discussed. Students will be expected to demonstrate an understanding and comprehension of course content through class discussions of lecture material, laboratory activities, examinations, and other assignments. \$40 Course Fee.

EQUUS 201 BASIC HORSE CARE & NUTRITION (4)

Pre-Fall 2011 UMW course: EQST 201 Basic Horse Care & Nutrition

In this course, the student will learn the basic principles of horse care and nutrition which is essential for the proper development, conditioning, and performance of horses. The student will gain a basic understanding of the nutritional requirements of horses in a variety of life stages, activity levels, and reproductive statuses. Related aspects of basic equine care including gastrointestinal parasite control, anthelmintics, dental care, hoof care, and preventative medicine will also be covered. Students will be expected to demonstrate an understanding and comprehension of course content through class discussions of lecture material, examinations, and other written assignments. \$40 Course Fee. Prereq: EQST 101 (*EQUUS 101*); or c/i. (fall)

EQUUS 202 EQUINE SCIENCE I (4)

Pre-Fall 2011 UMW course: EQST 202 Basic Equine Science I

In this two-course series, the student will learn the fundamentals of equine anatomy, physiology, and diseases using a step-wise systems approach. The normal anatomy and physiology of each system of the horse are covered initially, and then basic pathologic concepts and important diseases of each system are investigated. This first course of the two-part series will cover the body as a whole, and then look in more detail at the musculoskeletal system, cardiovascular system, hematopoietic system, respiratory system, and digestive system. Students will be expected to demonstrate an understanding and comprehension of course content through class discussions, laboratories, examinations, and other written assignments. \$40 Course Fee. Prereq: BIO 101 (*BIOB 101*) or BIO 111 (*BIOB 160*), and EQST 201 (*EQUUS 201*); or c/i. (fall)

EQUUS 203 EQUINE SCIENCE II (4)

Pre-Fall 2011 UMW course: EQST 203 Basic Equine Science II

In this two-course series, the student will learn the fundamentals of equine anatomy, physiology, and diseases using a step-wise systems approach. The normal anatomy and physiology of each system of the horse are covered initially, and then basic pathologic concepts and important diseases of each system are investigated. This second part of the two-part series will cover the nervous system, endocrine system, urogenital system, integumentary system, special senses, and the basics of equine genetics and

reproduction. Students will be expected to demonstrate an understanding and comprehension of course content through class discussions, laboratories, examinations, and other written assignments. \$40 Course Fee.

Prereq: EQST 202 (*EQUUS 202*); or c/i. (spring)

EQUUS 204 EQUINE FACILITIES MANAGEMENT (4)

Pre-Fall 2011 UMW course: EQST 204 Equine Facilities Management

In this capstone course, the student will learn the fundamentals of managing and operating an equine facility by utilizing knowledge that they gained in the previous EQUUS courses. The paradigm for the course will be the creation and maintenance of a productive, healthy environment for horses with a variety of stabling and pasture scenarios, while emphasizing the business aspects of the operation. Ancillary equine health-related topics will include record keeping nutrition and feeding protocols, disease prevention, human and equine safety, and equine athletic conditioning. Topics related to facility management may include barn/stable design, regulatory aspects of building an equine facility, barn ventilation and waste management, development and maintenance of performance surfaces (arenas and tracks), and equine transportation. Students will demonstrate their understanding of course material via class participation, laboratories, field and research reports, presentations, and examinations. \$40 Course Fee. Prereq: EQST 101 (*EQUUS 101*), EQST 201 (*EQUUS 201*), EQST 202 (*EQUUS 202*), and EQST 203 (*EQUUS 203*); or c/i.

EQUUS 346 EQUINE REPRODUCTIVE MANAGEMENT (4)

Pre-Fall 2011 UMW course: EQST 346 Equine Reproductive Management

In this course, the student will learn the fundamentals of equine reproduction and management. Topics covered will include the physiology, behavior, and nutrition of reproduction, assisted reproductive techniques, mare and stallion management, perinatal mare and foal care, equine fertility assessment (stallions and mares), abortion causes and prevention, hormone therapy to enhance and manipulate conception of pregnancy, nutrition of growth, and barren mare management. Current trends and research in equine reproduction will be discussed. Field trips and hands-on laboratories to enhance and supplement learning from class lectures and discussions will be scheduled when possible. Students will demonstrate their understanding of course material via class participation, laboratories, field and research reports, presentations, and examinations. \$45 Course Fee. Prereq: EQST 201 (*EQUUS 201*), EQST 202 (*EQUUS 202*), and EQST 203 (*EQUUS 203*); or c/i. (spring)

EQUUS 395 HERD HEALTH MANAGEMENT PRACTICUM (V 1-4) (R)

Pre-Fall 2011 UMW course: EQST 369 Herd Health Management Practicum

This upper division course will enable students to take that necessary step from the classroom to the real world. Here, serious students will apply knowledge gained in the previous equine science and management courses in a facility setting, while under the supervision of a faculty mentor. In turn, the students will serve as upper class mentors for incoming students, advising them on a variety of topics ranging from nutrition to routine management practices (dentistry, hoof care, parasite control, and others). Hands-on experience will be gained from a wide variety of events that occur at the equine facility from visits by the farrier or veterinarian, to dealing with illness or injuries via a thorough understanding of first aid and emergency medicine. The course must be set up with the course coordinator the semester prior to when the student wants to participate in the course. Students will be assessed on their mastery of the required knowledge and skills sets through course participation, written assignments, presentations, and examinations. Prereq: Junior standing; EQST 203 (*EQUUS 203*), EQST 204 (*EQUUS*

204), and EQST 401 (*EQUS 425*) highly recommended; or c/i. (fall/spring/summer)

EQUS 425 ADVANCED HORSE CARE & NUTRITION (4)

Pre-Fall 2011 UMW course: EQST 401 Advanced Horse Care & Nutrition

This knowledge-based course is intended to further broaden the student's understanding of a horse's health and welfare. Students will combine knowledge gained in *EQUS 201*, *202*, and *203* to more fully understand the interconnections between nutrition and management, and the various problems and diseases of horses. Topics will include dietary formulations for special equine needs, equine dental problems, parasite diagnosis and control, emergency and preventive medicine, and pertinent anatomy and physiology as it relates to health concerns. Students will learn to use scientific research methodologies to find answers and develop solutions to various equine health issues. Students will demonstrate their understanding of course material via class participation, laboratories, written field and research reports, presentations, and examinations. \$40 Course Fee. Prereq: EQST 201 (*EQUS 201*), EQST 202 (*EQUS 202*), EQST 203 (*EQUS 203*), and EQST 204 (*EQUS 204*); or c/i.

EQUS 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2011 UMW course: EQST 490 Independent Study

This advanced course allows the student to focus on a contemporary area of interest in the equine world. The emphasis of the course will be on experiential learning. Students are expected to critically evaluate, analyze, and synthesize selected topics through authorship of an extensive paper requiring independent research skills. Prereq: EQST 204 (*EQUS 204*), c/i, c/pc, and c/vc.

EQUH 494 SEMINAR/WORKSHOP (V 1-4)

Pre-Fall 2011 UMW course: EQST 409 Seminar

Selected topics of interest, with emphasis on experiential learning.

EQUS 499 SENIOR THESIS/CAPSTONE (2)

Pre-Fall 2011 UMW course: EQST 498 Senior Thesis

This course is intended as a culminating intellectual experience for the natural horsemanship degree. Working with a faculty advisor, the student will produce a thesis and an oral presentation on a topic related to natural horsemanship or a similar discipline that demonstrates a competent, independent application of basic research skills and a familiarity of the pertinent literature. Prereq: Senior standing, c/i, c/pc, and c/vc.

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

FA—Fine Arts

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]

FA 101 INTRODUCTION TO VISUAL & PERFORMING ARTS (4)

See *ARTH 160 Global Visual Culture*

FA 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

FA 290 INDEPENDENT STUDY (V 1-4)

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

FA 301 CONTEMPORARY ARTS ISSUES (4)

See *ARTH 350 Contemporary Art & Art Criticism*

FA 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

This option is intended to provide students with an opportunity to incorporate an appropriate extended field experience into their academic program. Prereq: c/i, c/pc, and c/vc. (fall/spring)

FA 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

FA 490 INDEPENDENT STUDY (V 1-4)

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

FA 498 SENIOR PROJECT/THESIS (V 1-15)

An individual project or thesis closely associated with the student's academic program and career goals. Student works with one selected faculty member. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

GEO—Geoscience: Geology

[New CCN rubric effective Fall 2009]

A prerequisite for any course with a GEO rubric is documented mathematical ability equivalent to MATH 007 Algebra/M 095 *Intermediate Algebra*. Ability can be demonstrated by appropriate college credit or ACT/SAT Math score.

GEO 101 INTRODUCTION TO PHYSICAL GEOLOGY (4)

Pre-Fall 2009 UMW course: GEOL 101 Introduction to Geology
Fundamental concepts of physical geology. Topics include the differentiation of the Earth, origin of the oceans and atmosphere, igneous, metamorphic, and sedimentary processes, earthquakes, plate tectonics, mountain building, surficial processes, glaciation and climate modeling, geologic time, evolution of life, and Earth history. Includes hands-on experience with rocks, minerals, fossils, and maps. \$75 Course Fee. Prereq: equivalent of MATH 007 (*M 095*) or higher.

GEO 103 INTRODUCTION TO ENVIRONMENTAL GEOLOGY (4)

Pre-Fall 2009 UMW course: GEOL 150 Environmental Geology
This course explores the human impact on the Earth and its resources. Topics include population growth, urban development and land-use planning, environmental policy, water pollution, air pollution, acid rain, climate modeling, greenhouse warming, waste disposal, soil erosion, energy resources, geological hazards, and the environmental impact of resource extraction and use. \$75 Course Fee. Prereq: equivalent of MATH 007 (*M 095*) or higher. (spring)

GEO 226 ROCKS, MINERALS, & RESOURCES (4)

Pre-Fall 2009 UMW course: GEOL 226 Rocks, Minerals, & Resources

This course covers the fundamentals of mineralogy followed by a thorough review of the classification and formation of igneous, metamorphic, and sedimentary rocks. Emphasis on the tectonic environments of rock and mineral formation, and on rocks and minerals as human resources. Rock and mineral identification will focus on hand-samples. \$100 Course Fee. Prereq: GEOL 101 (*GEO 101*) or GEOL 150 (*GEO 103*); and either CHEM 101 (*CHMY 121*) or CHEM 131 (*CHMY 141*); or c/i. (spring/even-numbered years)

GEO 230 GEOLOGY OF THE AMERICAN WEST (4)

Pre-Fall 2009 UMW course: GEOL 230 Geology of the American West

Geologic evolution of the west from its most ancient beginnings to modern processes that are still shaping it. The course offers opportunities to practice field and lab techniques for hand-sample identification of rocks and minerals, use maps and field observations to recognize geologic structures, and observe geomorphic processes shaping the Western landscape. Students successfully completing the course will demonstrate an integrated understanding of the topic in field activities, small group work, labs, exams, and short written and oral research presentations. Students successfully completing the course will demonstrate an integrated understanding of the topic in field activities, an annotated field photographic journal, small-group work, labs, exams, and short written and oral research presentations. Class includes several half-day field trips and one longer field trip (usually the entire second week of class) that may require a passport (depending on location). May have a service-learning component. \$200 Course Fee. Prereq: GEOL 101 (*GEO 101*) or GEOL 150 (*GEO 103*). (fall/even-numbered years)

GEO 290 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

GEO 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: GEOL 290 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (on demand)

GEO 294 SEMINAR/WORKSHOP (V 1-4)

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

GEO 309 SEDIMENTATION & STRATIGRAPHY (4)

Pre-Fall 2009 UMW course: GEOL 432 Depositional Environments
This field-based course covers the physical and biological characteristics of modern and ancient environments of deposition. Techniques of stratigraphic and sedimentologic analysis are used to better understand the processes that control the deposition of sediments in eolian, lacustrine, fluvial, glacial, deltaic, tidal, shelf, carbonate platform, and deep ocean environments. \$75 Course Fee. Prereq: GEOL 101 (*GEO 101*) or GEOL 150 (*GEO 103*); or c/i. (spring/even-numbered years)

GEO 315 STRUCTURAL GEOLOGY (4)

Pre-Fall 2009 UMW course: GEOL 330 Structure & Tectonics
This field-based course covers the deformation of the Earth's crust. Topics include the mechanics of rock deformation (stress and strain), characteristics of megascopic (folds, faults), mesoscopic (foliation, lineation), and microscopic (crystal fabric) structures, and the processes of mountain building at convergent, divergent, and transform-fault plate boundaries. Field mapping techniques will be taught during afternoon and/or weekend field trips in the Dillon area. \$75 Course Fee. Prereq: GEOL 226 (*GEO 226*); or c/i. (fall/odd-numbered years)

GEO 378 SURFICIAL PROCESSES (4)

Pre-Fall 2009 UMW course: GEOL 378 Surficial Processes
Field and laboratory-based study of Earth-surface processes that shape landscapes. Topics include weathering and soil formation, erosion and transport of particulate and dissolved materials, geomorphic

characteristics of deposits expressed as landforms, and engineering-related physical properties of surficial deposits. Field projects may emphasize use of landforms and/or surface processes to evaluate geologic hazards, geologic resources, or other environmental problems. Field trips and field projects will require extended class hours during the second and/or third week of class and may include overnight travel. The field project usually includes a service-learning component. \$75 Course Fee. Prereq: GEOL 226 (*GEO 226*) or BIO 214 (*BIOO 220*) or BIO 355 (*BIOO 435*); or c/i. (fall/even-numbered years)

GEO 421 HYDROLOGY (4)

Pre-Fall 2009 UMW course: GEOL 480 Hydrogeology

This field-based course covers the geologic aspects of water resources. Topics include the physical, chemical, and biological characteristics of surface and subsurface water, aquifer characterization, runoff processes, fluvial processes, water supply and consumption, contaminant transport, and remediation techniques. Lab included. \$75 Course Fee. Prereq: GEOL 101 (*GEO 101*) or GEOL 150 (*GEO 103*), and MATH 131 (*STAT 121*), and Junior/Senior standing; or c/i. (spring/odd-numbered years)

GEO/CHMY 431 ENVIRONMENTAL GEOCHEMISTRY (4)

Pre-Fall 2009 UMW course: CHEM/GEOL 431 Environmental Geochemistry

Students will examine and learn about the chemical and geological principles and reactions in natural systems: aquatic, marine, terrestrial, and atmospheric, and the effect and fate of contaminants in the environment. This is a field- and laboratory-oriented class, with computer analysis of data. Students successfully completing the class will demonstrate their knowledge of geochemical sampling and analysis techniques in one or more research projects. Students will evaluate their own and/or published data according to concepts studied in the class and present their research in papers and oral reports. Includes exams and teamwork. A field-based research project will require extended class hours during the second and/or third week of class. May have a service-learning component. \$120 Course Fee. Prereq: CHEM 132 (*CHMY 143*), and either GEOL 101 (*GEO 101*) or GEOL 150 (*GEO 103*). (spring/odd-numbered years)

GEO 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

GEO 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: GEOL 490 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

GEO 494 SENIOR GEOLOGY SEMINAR (V 1-4)

Pre-Fall 2009 UMW course: GEOL 409 Geology Seminar
Each seminar will provide in-depth study of a selected topic of current interest in the geosciences. Small group discussions and presentation setting. Students use published literature and other sources of information to research various aspects of the topic, write papers, and present their work to the group. Examples of possible general topics include paleoclimatology, global change, geologic hazards, stream-sediment dynamics, hydrology, geology of soils, mass extinctions, and neotectonics. May include field trips. \$75 Course Fee. Prereq: Junior/Senior standing, and GEOL 101 (*GEO 101*) or GEOL 150 (*GEO 103*); or c/i. (spring/odd-numbered years)

GEO 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2009 UMW course: GEOL 400 Cooperative Education/Internship

Incorporation of an appropriate work experience into the student's academic preparation. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

GEO 499 SENIOR THESIS/CAPSTONE (V 1-15)**Pre-Fall 2009 UMW course:** GEOL 498 Senior Project/Thesis

An individual project or thesis closely associated with the student's academic program and career goals. Project/thesis election subject to

approval of project or thesis advisor. Prereq: Junior/Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in italics throughout this Catalog.**GEOG—Geography***[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]***GEOG 102 HUMAN GEOGRAPHY (4) (CD)**See *GPHY 121 Human Geography***GEOG/ECON/POLS 201 THE WORLD ECONOMY (4)**See *ISSS 201 The World Economy***GEOG 202 REGIONAL GEOGRAPHY OF NORTH AMERICA (4) (CD)**See *GPHY 246 Geography of North America***GEOG 219 DIRECTED STUDY (V 1-4)**

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i and c/vc. (fall/spring)

GEOG 290 INDEPENDENT STUDY (V 1-4)See *GPHY 292 Independent Study***GEOG 305 CULTURAL & SOCIAL GEOGRAPHY (4)**See *GPHY 325 Cultural Geography***GEOG 400 COOPERATIVE EDUCATION/INTERNSHIP (V 3-12)**See *GPHY 498 Internship/Cooperative Education***GEOG 409 SEMINAR (4)**See *GPHY 494 Seminar/Workshop***GEOG 419 DIRECTED STUDY (V 1-4)**

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i and c/vc. (on demand)

GEOG/POLS 441 WORLD RESOURCES (4)See *ISSS 441 World Resources***GEOG 490 INDEPENDENT STUDY (V 1-4)**See *GPHY 492 Independent Study***GEOG 498 SENIOR PROJECT/THESIS (V 4-12)**See *GPHY 499 Senior Project/Thesis***Note: New Common Course Numbering system rubrics and courses are displayed in italics throughout this Catalog.****GEOL—Geology***[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]*

A prerequisite for any course with a GEOL rubric is documented mathematical ability equivalent to MATH 007 Algebra/M 095 Intermediate Algebra. Ability can be demonstrated by appropriate college credit or ACT/SAT Math score.

GEOL 101 INTRODUCTION TO GEOLOGY (4)See *GEO 101 Introduction to Physical Geology***GEOL 150 ENVIRONMENTAL GEOLOGY (4)**See *GEO 103 Introduction to Environmental Geology***GEOL 219 DIRECTED STUDY (V 1-5)**

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

GEOL 226 ROCKS, MINERALS, & RESOURCES (4)See *GEO 226 Rocks, Minerals, & Resources***GEOL 230 GEOLOGY OF THE AMERICAN WEST (4)**See *GEO 230 Geology of the American West***GEOL 290 INDEPENDENT STUDY (V 1-4)**See *GEO 292 Independent Study***GEOL 330 STRUCTURE & TECTONICS (4)**See *GEO 315 Structural Geology***GEOL 378 SURFICIAL PROCESSES (4)**See *GEO 378 Surficial Processes***GEOL 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)**See *GEO 498 Internship/Cooperative Education***GEOL 409 GEOLOGY SEMINAR (4)**See *GEO 494 Senior Geology Seminar***GEOL 419 DIRECTED STUDY (V 1-5)**

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

GEOL/CHEM 431 ENVIRONMENTAL GEOCHEMISTRY (4)See *GEO/CHMY 431 Environmental Geochemistry***GEOL 432 DEPOSITIONAL ENVIRONMENTS (4)**See *GEO 309 Sedimentation & Stratigraphy***GEOL 480 HYDROGEOLOGY (4)**See *GEO 421 Hydrology***GEOL 490 INDEPENDENT STUDY (V 1-4)**See *GEO 492 Independent Study***GEOL 498 SENIOR PROJECT/THESIS (V 1-15)**See *GEO 499 Senior Thesis/Capstone*

Note: New Common Course Numbering system rubrics and courses are displayed *in italics* throughout this Catalog.

GPHY—Geoscience: Geography ***[New CCN rubric effective Fall 2009]***

GPHY 121 HUMAN GEOGRAPHY (4) (CD)

Pre-Fall 2009 UMW course: GEOG 102 Human Geography
Provides an introduction to the major themes of human geography including settlement, culture, economic, and political organizations, and human-nature relationships. The course also provides a general introduction to understanding maps and demographic features (e.g., population growth). Issues of cultural diversity—with special focus on indigenous peoples—both within American society and across the world will be emphasized. Students will demonstrate understanding of course content through in- and out-of-class writing assignments. Lecture and group discussion. (Internet—fall/spring)

GPHY 246 GEOGRAPHY OF NORTH AMERICA (4) (CD)

Pre-Fall 2009 UMW course: GEOG 202 Regional Geography of North America
Provides an introduction to the themes of American and Canadian regional geography including environmental, political, linguistic, economic, social diversity, and spatial relationships. Special emphasis will be given to coverage of the native peoples of North America. Students will demonstrate understanding of course content through in- and out-of-class writing assignments. Lecture and group discussion. (on demand)

GPHY 290 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

GPHY 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: GEOG 290 Independent Study
Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i, c/pc, and c/vc. (on demand)

GPHY 294 SEMINAR/WORKSHOP (V 1-4)

Selected topics of interest. Prereq: c/i. (on demand)

GPHY 325 CULTURAL GEOGRAPHY (4)

Pre-Fall 2009 UMW course: GEOG 305 Cultural & Social Geography
This course examines how social and cultural interactions and development are spatially constructed. Major themes include gender and sexuality in space, wealth and urban development, landscapes of

consumption, spaces of resistance, and ideas of wilderness. Seminar. (on demand)

GPHY 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

GPHY 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: GEOG 490 Independent Study
Advanced directed research or study, with emphasis on experiential learning. Students are expected to critically evaluate, analyze, and synthesize selected topics through authorship of an extensive course paper requiring independent research skills. Prereq: GEOG 102 (*GPHY 121*); and either ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

GPHY 494 SEMINAR/WORKSHOP (V 1-4)

Pre-Fall 2009 UMW course: GEOG 409 Seminar
Selected topics of interest. Prereq: Junior standing and c/i. (on demand)

GPHY 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2009 UMW course: GEOG 400 Cooperative Education/Internship
Intended to provide students with an opportunity to incorporate an appropriate extended field experience into their academic program. Field placement options to include all facets of the helping professions. Prereq: GEOG 102 (*GPHY 121*); and either ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

GPHY 499 SENIOR PROJECT/THESIS (V 1-15)

Pre-Fall 2009 UMW course: GEOG 498 Senior Project/Thesis
This course is intended as a culminating experience for the social science degree. Working with a faculty advisor, the student will generate a product that demonstrates a competent, independent application of basic social science research or program evaluation skills. Prereq: GEOG 102 (*GPHY 121*); and either ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

Note: New Common Course Numbering system rubrics and courses are displayed *in italics* throughout this Catalog.

HEE—Health Enhancement ***[New CCN rubric effective Fall 2013]***

HEE 301 METHODS OF SECONDARY HEALTH EDUCATION (4)

Pre-Fall 2013 UMW course: HHP 351 Secondary PE & Health Methods
Upon completion of this course, students will apply, analyze, and evaluate methods used in teaching health and physical education in grades K-12, with particular emphasis on middle and secondary levels. Skills and concepts will include teaching styles, management and content issues, technology and software materials and their application, emphasis on instructionally and developmentally appropriate methods of instruction, construction of lesson and unit plans, and appropriate methods for assessment of student progress. \$25 Course Fee. Prereq: Admission to TEP and HHP 241 (*HEE 340*). (spring)

HEE 302 METHODS OF INSTRUCTIONAL STRATEGIES IN ELEMENTARY PHYSICAL EDUCATION (4)

Pre-Fall 2012 UMW course: HHP 374 Elementary School Health & Physical Education (& Practicum); **2012-13 UMW course:** *EDU 397H Methods: K-8 Health Education*
Upon completion of the course, a student will understand and apply concepts of specific planning, organizing, and teaching an elementary health and physical education program. Teaching methods, organization and group process, maturational considerations, sequences in a variety of instructionally and developmentally appropriate activities, and assessment techniques will be understood, experienced, and applied. The practicum portion will take theory into practice and students will have a field experience in the public schools. Students will demonstrate competency through class participation, examinations, completion of laboratory assignments, and projects. \$25 Course Fee. Prereq: Admission to TEP. (fall/spring)

HEE 303 METHODS OF LIFETIME FITNESS ACTIVITIES (4)

Pre-Fall 2013 UMW course: HHP 202 Individual & Dual Sport Methods & Techniques

Methods of teaching a variety of individual and dual sports, games, and lead-up activities for K-12 programming. Emphasis on development and analysis of skills, progressions, error analysis and correction, teaching techniques, methodology, and assessment. Students will demonstrate competency through class participation, peer teaching, examinations, and projects. \$55 Course Fee. Prereq: HHP 143 (*KIN 205*). (spring)

HEE 304 METHODS OF TEAM SPORTS (4)

Pre-Fall 2013 UMW course: HHP 201 Team Sport Methods & Techniques

Methods of teaching a variety of team sports, games, and lead-up activities for K-12 programming. Emphasis on development and analysis of skills, progressions, error analysis and correction, teaching techniques, methodology, and assessment. Students will demonstrate competency through class participation, peer teaching, examinations, and projects. \$50 Course Fee. Prereq: HHP 143 (*KIN 205*). (fall)

HEE 310 METHODS OF ADAPTED HEALTH EDUCATION (4)

Pre-Fall 2013 UMW course: HHP 454 Adapted Physical Education & Recreation

Study of conditions that require physical education programs to be adapted to individuals with special needs. Principles and practices in the application of exercise and physical activity for persons with specific disabling conditions. \$25 Course Fee. Prereq: Admission to TEP. (fall)

HEE 340 METHODS OF HEALTH EDUCATION (4)

Pre-Fall 2013 UMW course: HHP 241 Personal & Community Health Introduction to the fundamental health concepts and attitudes relating to concerns and needs of individuals and society. Structure, function, and dysfunction of the cardiovascular, respiratory, digestive, nervous, endocrine, immune, and integumentary systems will be covered in the context of specific topics including cancer, heart disease, infectious, chronic, and congenital diseases, consumer health, environmental health, safety, and choices relating to the use and abuse of alcohol, tobacco, and other drugs. Students are expected to demonstrate comprehension of course content through testing, individual and group assignments, presentations, and class participation. \$15 Course Fee. (fall/spring)

HEE 410 ORGANIZATION & ADMINISTRATION IN SPORT FITNESS (4)

Pre-Fall 2013 UMW course: HHP 347 Organization & Administration of Health Enhancement Organization and administration of physical education, intramurals, and health and fitness programs. Topics will include ethics, law, legal liability, budgeting, evaluating and purchasing of equipment, scheduling procedures, management and content issues, and other issues that are necessary to assuring a successful program. Students will demonstrate comprehension of course content through written exams, in-class projects, special assignments, and class participation. Prereq: HHP 143 (*KIN 205*); or c/i. (fall)

HEE 490 UNDERGRADUATE RESEARCH (V 1-5)

Directed research or study on an individual basis. Prereq: c/i and c/pc.

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

HHP—Health & Human Performance

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]

HHP 100 BASIC SKILLS (V 1-2)

See *ACT 100 Basic Skills*

HHP 108 FLY FISHING & FLY TYING (1)

See *ACT 173 Beginning Fly Fishing/Fly Tying*

HHP 109 SELF DEFENSE (1)

See *ACT 157 Beginning Martial Arts*

HHP 117 SNOWBOARDING (1)

See *ACT 121 Snowboarding Basics*

HHP 118 SKIING (1)

See *ACT 120 Beginning Alpine Skiing*

HHP 126 RACQUET SPORTS (1)

See *ACT 208 Racquet Sports*

HHP 129 INTRODUCTION TO ATHLETIC WEIGHT TRAINING (1)

See *ACTV 129 Introduction to Athletic Weight Training*

HHP 130 WEIGHT TRAINING FOR ATHLETES (1) R

See *ACTV 130 Weight Training for Athletes*

HHP 131 WEIGHT TRAINING-COED (1)

See *ACT 110 Beginning Weight Training*

HHP 134 LIFE SKILLS FOR STUDENT ATHLETES I (1)

Introduction of the skills necessary for student-athletes to achieve success in college, intercollegiate athletics, and as young adults. Topics include learning strategies, mental health topics, physical health topics, and personal development in line with the Five Core Values of the NAIA Champions of Character program. (fall)

HHP 135 VARSITY ATHLETICS (1) R-7 credits maximum

See *ACTV 189 Varsity Athletics*

HHP 136 LIFE SKILLS FOR STUDENT ATHLETES II (1)

Continuing introduction to the skills necessary for student-athletes to achieve success in college, intercollegiate athletics, and as young adults. Topics include learning strategies, mental health topics, physical health topics, and personal development in line with the Five Core Values of the NAIA Champions of Character program. (spring)

HHP 143 FOUNDATIONS OF HEALTH & PHYSICAL EDUCATION (4)

See *KIN 205 Foundations & Scientific Fundamentals in Health & Human Performance*

HHP/ENVS 150 BASIC ROCK CLIMBING (1)

See *ACT 114 Beginning Rock Climbing*

HHP 201 TEAM SPORT METHODS & TECHNIQUES (4)

See *HEE 304 Methods of Team Sports*

HHP 202 INDIVIDUAL & DUAL SPORT METHODS & TECHNIQUES (4)

See *HEE 303 Methods of Lifetime Fitness Activities*

HHP 205 DANCE & RHYTHM METHODS & TECHNIQUES I (1)

See *DANC 285 Dance & Rhythm Methods & Techniques I*

HHP 206 DANCE & RHYTHM METHODS & TECHNIQUES II (1)

See *DANC 286 Dance & Rhythm Methods & Techniques II*

HHP 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

HHP/EQST 222 ELEMENTS OF RODEO (2)

See *EQUH 222 Elements of Rodeo*

HHP 231 FIRST AID & SAFETY (1)

See *ECP 100 First Aid & CPR*

HHP 234 LIFE SKILLS FOR STUDENT ATHLETES III (1)

Continuing introduction to the skills necessary for student-athletes to achieve success in college, intercollegiate athletics, and as young adults. Students will be exposed to information designed to enhance their personal care as well as prepare them for greater involvement in their campus and community. Topics include learning strategies, mental health topics, physical health topics, and personal development in line with the Five Core Values of the NAIA Champions of Character program. (fall)

HHP 236 LIFE SKILLS FOR STUDENT ATHLETES IV (1)

Continuing introduction to the skills necessary for student-athletes to achieve success in college, intercollegiate athletics, and as young adults. Topics include learning strategies, career skills preparation, mental, physical, and social health topics, and personal development in line with the Five Core Values of the NAIA Champions of Character program. (spring)

HHP/HTR 240 LEISURE SERVICES (4)

See *HTR 240 Leisure Services*

HHP 241 PERSONAL & COMMUNITY HEALTH (4)

See *HEE 340 Methods of Health Education*

HHP 245 HUMAN SEXUALITY (4)

See *HTH 220 Human Sexuality*

HHP 311 ATHLETIC TRAINING I (4)

See *AHAT 210 Prevention & Care of Athletic Injuries*

HHP 315 BIOMECHANICS (4)

See *KIN 325 Biomechanics (4)*

HHP 317 EXERCISE PHYSIOLOGY (4)

See *KIN 320 Exercise Physiology*

HHP 319 MOTOR LEARNING & PSYCHOLOGY (4)

See *KIN 330 Motor Learning & Control*

HHP 334 LIFE SKILLS FOR STUDENT ATHLETES V (1)

This course offers continuing education and development opportunities of skills necessary for student-athletes to achieve success in college, intercollegiate athletics, and as young adults. Topics include academic and career strategies, mental health topics, physical health topics, and personal development in line with the Five Core Values of the NAIA Champions of Character program. (fall)

HHP 336 LIFE SKILLS FOR STUDENT ATHLETES VI (1)

Continuing development of the skills necessary for student-athletes to achieve success in college, intercollegiate athletics, and as young adults. Topics include academic success strategies, personal health and wellness education and development topics in line with the Five Core Values of the NAIA Champions of Character program. (spring)

HHP 347 ORGANIZATION & ADMINISTRATION OF HEALTH ENHANCEMENT (4)

See *HEE 410 Organization & Administration in Sport Fitness*

HHP 350 COACHING: PEDAGOGY, ADMINISTRATION, & ETHICS (4)

See *COA 305 Coaching: Pedagogy, Administration, & Ethics*

HHP 351 SECONDARY PE & HEALTH METHODS (4)

See *HEE 301 Methods of Secondary Health Education*

HHP 352 COACHING OF BASKETBALL (2)

See *COA 245 Coaching Basketball*

HHP 353 COACHING OF TRACK & FIELD (2)

See *COA 256 Coaching Track/Field*

HHP 354 COACHING OF BASEBALL & SOFTBALL (2)

See *COA 246 Coaching Softball/Baseball*

HHP 355 COACHING OF FOOTBALL (2)

See *COA 242 Coaching Football*

HHP 356 COACHING OF WRESTLING (2)

See *COA 258 Coaching Wrestling*

HHP 358 COACHING OF VOLLEYBALL (2)

See *COA 240 Coaching Volleyball*

HHP 359 OFFICIATING (2)

See *COA 210 Introduction to Sports Officiating*

HHP 364 NUTRITION (4)

See *NUTR 411 Nutrition for Sports Exercise*

HHP 374 ELEMENTARY SCHOOL HEALTH & PHYSICAL EDUCATION (& PRACTICUM) (4)

2012-13 UMW course: *EDU 397H Methods: K-8 Health Education; Effective Fall 2013: HEE 302 Methods of Instructional Strategies in Elementary Physical Education*

HHP 410 ATHLETIC TRAINING II (4)

See *AHAT 330 Advanced Techniques in Sports Medicine*

HHP 416 CONDITIONING PROGRAM DEVELOPMENT (4)

See *KIN 410 Advanced Strength Training & Conditioning*

HHP 419 DIRECTED STUDY (V 1-5)

Selected topics relevant to health and/or physical education under faculty supervision. Assessment will involve methods appropriate to the outcomes. Prereq: c/i, c/pc, and c/vc. (on demand)

HHP 434 LIFE SKILLS FOR STUDENT ATHLETES VII (1)

Introduction to the skills necessary for student-athletes to achieve success in college, intercollegiate athletics and as young adults. Topics include learning strategies, mental health topics, physical health topics, and personal development in line with the Five Core Values of the NAIA Champions of Character program. (fall)

HHP 436 LIFE SKILLS FOR STUDENT ATHLETES VIII (1)

This course provides student-athletes with an opportunity to develop and refine skills necessary for career and personal success. Focus will be on the transition from college athlete to full-time student completing a degree or young professional. (spring)

HHP 454 ADAPTED PHYSICAL EDUCATION & RECREATION (4)

See *HEE 310 Methods of Adapted Health Education*

HHP 479 SPORTS MEDICINE INTERNSHIP (V 1-6)

See *AHAT 498 Internship*

HHP 497 COACHING INTERNSHIP (V 1-4)

See *COA 498 Internship: Coaching*

Note: New Common Course Numbering system rubrics and courses are displayed *in italics* throughout this Catalog.

HIST—History

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]

HIST 101 EUROPEAN CIVILIZATION I (4) (CD)

See *HSTR 101 Western Civilization I*

HIST 102 EUROPEAN CIVILIZATION II (4) (CD)

See *HSTR 102 Western Civilization II*

HIST 111 AMERICAN HISTORY TO THE CIVIL WAR (4) (CD)

See *HSTA 101 American History I*

HIST 112 AMERICAN HISTORY SINCE RECONSTRUCTION (4) (CD)

See *HSTA 102 American History II*

HIST 219 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i, c/pc, and c/vc. (on demand)

HIST 220 INTRODUCTION TO RESEARCH METHODS (4)

See *ISSS 220 Quantitative Social Research Methods*

HIST/ANTH/POLS/SOC 221 QUANTITATIVE METHODS FOR SOCIAL SCIENCE (4)

See *ISSS 221 Quantitative Research Methods for Social Science*

HIST/ANTH/POLS/PSY/SOC 222 QUALITATIVE METHODS FOR SOCIAL SCIENCE (4)

See *ISSS 222 Qualitative Research Methods for Social Science*

HIST 225 AFRICA & THE MIDDLE EAST (4) (CD)

See *HSTR 260 Africa & the Middle East*

HIST 240 HISTORY OF THE FAR EAST (4) (CD)

See *HSTR 255 History of the Far East*

HIST 263 UNITED STATES SINCE 1945 (4) (CD)

See *HSTA 215 Post-World War II America*

HIST 274 WORLD HISTORY (4) (CD)

See *HSTR 274 World History*

HIST 290 INDEPENDENT STUDY (V 1-4)

See *HSTA/HSTR 292 Independent Study*

HIST 320 HISTORY OF CENTRAL EUROPE I (4)

See *HSTR 310 History of Central Europe I*

HIST 321 HISTORY OF CENTRAL EUROPE II (4)

See *HSTR 311 History of Central Europe II*

HIST 325 HISTORY OF THE MASS MEDIA (4)

See *HSTA 331 History of the Mass Media*

HIST 360 COLD WAR EUROPE (4)

See *HSTR 360 Cold War Europe*

HIST 362 AFRICAN-AMERICAN HISTORY (4)

See *HSTA 341 African-American History*

HIST 370 WOMEN'S HISTORY (4)

See *HSTA 386 Women's History*

HIST 371 MONTANA & THE AMERICAN WEST (4)

See *HSTA 355 Montana & the American West*

HIST 380 MODERN EUROPE (4)

See *HSTR 326 Contemporary Europe*

HIST 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *HSTA/HSTR 498 Internship/Cooperative Education*

HIST 409 SEMINAR (4)

See *HSTA/HSTR 494 Seminar/Workshop*

HIST 419 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i, c/pc, and c/vc. (on demand)

HIST 452 EUROPEAN INTELLECTUAL HISTORY (4)

See *HSTR 423 European Intellectual History*

HIST 456 UNITED STATES CULTURAL HISTORY (4)

See *HSTA 412 American Thought & Culture*

HIST 490 INDEPENDENT STUDY (V 1-4)

See *HSTA/HSTR 492 Independent Study*

HIST 498 SENIOR PROJECT/THESIS (V 1-15)

See *HSTA/HSTR 499 Senior Project/Thesis*

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HON—Honors

Students must apply and be accepted to the Honors Program in order to enroll in Honors Seminars (see page 17).

Honors Seminars may substitute for required courses for a degree or General Education.

These substitutions are detailed in the seminar proposals. For precise information, see instructors of the seminars.

HON 101 FRESHMAN HONORS SEMINAR (4)

Title, content, and sequence vary. Class will include significant components associated with experiential education. \$15 Course Fee.

HON 102 FRESHMAN HONORS SEMINAR (4)

Title, content, and sequence vary. Class will include significant components associated with experiential education. \$15 Course Fee.

HON 201 SOPHOMORE HONORS SEMINAR (4)

Title, content, and sequence vary. Class will include significant components associated with experiential education. \$15 Course Fee.

HON 202 SOPHOMORE HONORS SEMINAR (4)

Title, content, and sequence vary. Class will include significant components associated with experiential education. \$15 Course Fee.

HON 301 JUNIOR HONORS SEMINAR (4)

Title, content, and sequence vary. Class will include significant components associated with experiential education. \$15 Course Fee.

HON 302 JUNIOR HONORS SEMINAR (4)

Title, content, and sequence vary. Class will include significant components associated with experiential education. \$15 Course Fee.

HON 401 SENIOR HONORS SEMINAR (4)

Title, content, and sequence vary. Class will include significant components associated with experiential education. \$15 Course Fee.

HON 402 SENIOR HONORS SEMINAR (4)

Title, content, and sequence vary. Class will include significant components associated with experiential education. \$15 Course Fee.

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HSTA—History: American

[New CCN rubric effective Fall 2009]

HSTA 101 AMERICAN HISTORY I (4) (CD)

Pre-Fall 2009 UMW course: HIST 111 American History to the Civil War

A survey of the important events and key issues shaping the development of the United States from the colonial period through the Civil War. Includes a comparison of the unique characteristics of early U.S. society in relation to Native American and European counterparts. Student understanding will be evaluated on the basis of performance on examinations, and written assignments based on critical readings of assigned texts. Lecture with some group discussion. (fall/spring)

HSTA 102 AMERICAN HISTORY II (4) (CD)

Pre-Fall 2009 UMW course: HIST 112 American History Since Reconstruction

A survey of the important events and key issues involved in the emergence of the United States as a world power after the Civil War, and how that power has been exercised through the present day. Includes attention to the assimilation of foreign-born immigrants, the roots of Civil Rights activism with respect to African-Americans, and efforts to deal with the "Indian problem." Student understanding will be evaluated on the basis of performance on examinations, and written assignments based on critical readings of assigned texts. Lecture with some group discussion. (fall/spring)

HSTA 215 POST-WORLD WAR II AMERICA (4) (CD)

Pre-Fall 2009 UMW course: HIST 263 United States Since 1945

An in-depth examination of the important events that have shaped American society since the end of World War II, with particular emphasis on the Cold War, Civil Rights including identity movements associated with African-Americans, Native Americans, and women, liberalism vs. conservatism, and U.S. responsibilities as a world power. Students will be expected to engage in class discussions and prepare written assignments based on core readings and library research. Lecture and discussion. (Block 3 fall/even-numbered years)

HSTA 290 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

HSTA 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: HIST 290 Independent Study

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (on demand)

HSTA 294 SEMINAR/WORKSHOP (V 1-4)

Selected topics of interest. \$15 Course Fee. (on demand)

HSTA 331 HISTORY OF THE MASS MEDIA (4)

Pre-Fall 2009 UMW course: HIST 325 History of the Mass Media
A critical examination of the social role played by newspapers, magazines, books, movies, radio, and television in the United States from the Revolution until the present. Students will show understanding of the material through class discussion and written assignments based on library research. Lecture and discussion. (on demand)

HSTA 341 AFRICAN-AMERICAN HISTORY (4)

Pre-Fall 2009 UMW course: HIST 362 African-American History

An examination of African-American experiences in the United States, from slavery through emancipation and the civil rights movement, to contemporary debates on race and equality. Students will be evaluated on class participation and several written assignments based on critical readings of assigned texts. Lecture and discussion. (Block 1 fall/even-numbered years)

HSTA 355 MONTANA & THE AMERICAN WEST (4)

Pre-Fall 2009 UMW course: HIST 371 Montana & the American West

An examination of the development of America's western territories, with special emphasis on Montana history, Native American cultures, and the background of contemporary issues relating to the lands west of the Mississippi River. Students will engage in class discussion and prepare written assignments based on core readings and library research. Lecture and discussion. \$25 Course Fee. (Block 2 fall/odd-numbered years)

HSTA 386 WOMEN'S HISTORY (4)

Pre-Fall 2009 UMW course: HIST 370 Women's History

An examination of the roles played by women in shaping significant historical events, issues, and movements. The course will engage political, cultural, social, and economic aspects of those roles and examine how each either conforms to or challenges traditional views of women. Primary emphasis will be on American women post-1700, but with some comparative attention to women in European and non-Western societies. Students will be expected to participate in class discussions and prepare written assignments based on core readings and library research. Lecture, discussion, and group projects. (Block 8 spring/odd-numbered years)

HSTA 412 AMERICAN THOUGHT & CULTURE (4)

Pre-Fall 2009 UMW course: HIST 456 US Cultural History

An historical investigation of the roles played by art, literature, religion, and philosophy in shaping ideas about American society and identity from the Puritans to Elvis Presley and beyond. Students will participate in class discussions and prepare a research project based on original library and/or archival research. Seminar. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or ISSS 222; or c/i. (Block 4 fall/odd-numbered years)

HSTA 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

HSTA 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall UMW course: HIST 490 Independent Study

Directed research or study on an individual basis, with emphasis on experiential learning. Topic and terms of evaluation to be determined by agreement between student and instructor, but likely to include a written research project and creation of a topical bibliography. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or ISSS 222; and c/i, c/pc, and c/vc. (on demand)

HSTA 494 SEMINAR/WORKSHOP (V 1-4)**Pre-Fall 2009 UMW course:** HIST 409 Seminar

Selected topics of interest. Prereq: Junior standing. (Block 5 spring/even-numbered years)

HSTA 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)**Pre-Fall 2009 UMW course:** HIST 400 Cooperative Education/ Internship

This option is intended to provide students with an opportunity to incorporate an appropriate extended field experience into their academic program. Field placement options to include all facets of the historical professions. Prereq: Senior standing, and either ANTH/HIST/POLS/

PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)**HSTA 499 SENIOR PROJECT/THESIS (V 1-15)****Pre-Fall 2009 UMW course:** HIST 498 Senior Project/ThesisThis course is intended as a culminating experience for the social science degree. Working with a faculty advisor, the student will generate a product that demonstrates a competent, independent application of basic historical research skills. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)**Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.*****HSTR—History: World***
[New CCN rubric effective Fall 2009]**HSTR 101 WESTERN CIVILIZATION I (4) (CD)****Pre-Fall 2009 UMW course:** HIST 101 European Civilization I

A comprehensive introductory history of western civilization from classical antiquity to 1715. Students will be assessed on their ability to write short critical papers, on exams, and on classroom participation that demonstrate critical thinking and an ability to communicate in a scholarly manner. (fall/spring)

HSTR 102 WESTERN CIVILIZATION II (4) (CD)**Pre-Fall 2009 UMW course:** HIST 102 European Civilization II

A comprehensive introductory history of western civilization from 1715 to the present. Students will be assessed on their ability to write short critical papers, on exams, and on classroom participation that demonstrate critical thinking and an ability to communicate in a scholarly manner. (fall/spring)

HSTR 255 HISTORY OF THE FAR EAST (4) (CD)**Pre-Fall 2009 UMW course:** HIST 240 History of the Far East

A survey that comprehensively studies the history of East Asia and India. First, students will briefly overview the early histories of Japan, China, the Far East, and India in order to better understand the region's dynamic change since the 1800s. The course primarily investigates the impact that East Asian history has had on the West after the 1800s. Students will be evaluated on class participation, examinations, and several written assignments based on critical core readings. Lecture and discussion. (on demand)

HSTR 260 AFRICA & THE MIDDLE EAST (4) (CD)**Pre-Fall 2009 UMW course:** HIST 225 Africa & the Middle East

A survey of the key historical developments that have shaped the cultures, societies, and institutions of Africa and the Middle East. Includes an examination of how the people of these two regions have interacted, and their influence on other parts of the world. Students will be expected to participate in class discussions and complete writing and research assignments based on core readings. Lecture, discussion, and group projects. (on demand)

HSTR 274 WORLD HISTORY (4) (CD)**Pre-Fall 2009 UMW course:** HIST 274 World History

This class examines the history of the world. Obviously, it is impossible to outline the history of the world in a block, nevertheless we will concentrate on the history of the Middle East and Africa. Hence, we will ask and answer specific questions of numerous regional histories that hopefully will give us tools that will allow us to study any aspect of human history on our own yet, at the same time, expose students to the cultural diversity that exists on the globe. The expected outcome for students at the conclusion of this class will be: 1) the ability to answer questions such as how historians have interpreted the past, and how they investigated "alien" civilizations; 2) the ability to know how and why civilizations developed and changed over time; 3) the ability to know how civilizations interact; and 4) the ability to understand, appreciate, and communicate historical dynamics that students have gleaned from

independent exploration and research. Students will be assessed on their ability to write short critical papers, answer essay questions that demonstrate analytical thinking, and on an ability to communicate in a scholarly manner. (Block 7 spring)

HSTR 290 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

HSTR 292 INDEPENDENT STUDY (V 1-4)**Pre-Fall 2009 UMW course:** HIST 290 Independent Study

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (on demand)

HSTR 294 SEMINAR/WORKSHOP (V 1-4)

Selected non-Western historical topics of interest. (spring)

HSTR 310 HISTORY OF CENTRAL EUROPE I (4)**Pre-Fall 2009 UMW course:** HIST 320 History of Central Europe I

This class examines the history of Central Europe from the end of the Napoleonic Wars to Adolf Hitler's seizure of power in 1933. Special emphasis will be afforded to social/cultural history. Such an approach best allows students to understand how the rise of the middle class, industrialization, the beginnings of democracy, and modernism impacted society politically, economically, and as a whole. From all of Central Europe's nation-states, this course will closely explore the history of the German people and state during this time. Trying to understand why and how Fascism/Nazism was attractive to Germans and others in Central Europe will be critical. Students will show understanding of the material through class discussion, group projects, written assignments based on critical core readings and library research, and examinations. Lecture, discussion, and group projects-research. (Block 2 fall/even-numbered years)

HSTR 311 HISTORY OF CENTRAL EUROPE II (4)**Pre-Fall 2009 UMW course:** HIST 321 History of Central Europe II

The course will pick up where HIST 320/HSTR 310 left off. Nazi Germany dominated Central Europe after 1933, and its subsequent defeat gave birth to historical dynamics that still dominate Central Europe. Thus, this class will focus on the history of Germany from 1933 until the present. The course examines Nazi strategies at establishing a totalitarian regime, the fascist world-view, World War II, resistance to the Nazis, and the Holocaust. Post-war Central Europe will also be examined through the lens of Germany, a state that today plays a central role in the European Union. Students will show understanding of the material through class discussion, group projects, written assignments based on critical core readings and library research, and examinations. Lecture, discussion, and group projects-research. (on demand)

HSTR 326 CONTEMPORARY EUROPE (4)**Pre-Fall 2009 UMW course:** HIST 380 Modern Europe

This class examines the political, social, and cultural history of 20th century Europe including the rise of nationalism, World Wars I and II, fascism, Marxism, the rise and fall of the Soviet Empire, the European Union, and life in Europe. The central theme of the course will be: "As Americans, what can the European experience teach us?" Students will show understanding of the material through class discussion, group projects, written assignments based on critical core readings and library research, and examinations. Lecture, discussion, and group projects-research. (Block 6 spring/even-numbered years)

HSTR 357 RUSSIA TO 1881 (4)

Surveys the history of Russia, from the emergence of Kiev to the mid-nineteenth century. Broadly emphasizes Russian cultural and intellectual traditions and developments. Lecture and discussion. (Block 3 fall/even-numbered years)

HSTR 358 RUSSIA SINCE 1881

Surveys the history of Russia from the mid-nineteenth century to the present. Broadly emphasizes Russian/Soviet cultural and intellectual traditions and developments. Lecture and discussion. (Block 7 spring/odd-numbered years)

HSTR 360 COLD WAR EUROPE (4)**Pre-Fall 2009 UMW course:** HIST 360 Cold War Europe

An intense investigation of Eastern Europe from the 19th century to the present. Particular emphasis will be placed on eastern Europe immediately after the conclusion of World War II when Stalinist regimes were put in power in Poland, Czechoslovakia, Hungary, and East Germany. This class will explore Eastern Europe by studying its social/cultural history. Such an approach best allows students to understand how societies reacted to the imposition of Stalinism, how they resisted it, and how they eventually overthrew Soviet domination in the revolutions of 1989. Students will show understanding of the material through class discussion, group projects, written assignments based on critical core readings and library research, and examinations. Lecture, discussion, and group projects-research (Block 2 fall/odd-numbered years)

HSTR 491 PHILOSOPHIES OF HISTORY (4)*Common course number to be determined*

This course introduces students to key ideas, theories, and historians in the history of historical writing. While study of major theories of historical interpretation and philosophies of history is an important field in its own right, students will also engage in practical applications of the theoretical material to the practices of historical writing. Seminar and small group discussion. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; or c/i. (Block 7 spring/even-numbered years)

HSTR 423 EUROPEAN INTELLECTUAL HISTORY (4)**Pre-Fall 2009 UMW course:** HIST 452 European Intellectual History

An in-depth analysis of 19th and 20th century European Intellectual history. Students do primary readings of Max Weber, Karl Marx, Friedrich Nietzsche, Theodor Adorno, Louis Althusser, Roland Barthes,

Jacques Derrida, Michel Foucault, Juergen Habermas, Martin Heidegger, Max Horkheimer, Georg Lukacs, Jean-Paul Sartre, Claude Levi-Strauss, and Hayden White. Critical discussions will center on the Enlightenment, Positivism, Marxism, and Post-modernism. This class is conducted in a seminar format. Students will demonstrate understanding via the course's heavy emphasis on reading, analysis, discussion, and writing (based upon library and archival research). Prereq: POLS 250 (*PSCI 250*); and either ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; or c/i. (Block 4 fall/even-numbered years)

HSTR 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

HSTR 492 INDEPENDENT STUDY (V 1-4)**Pre-Fall UMW course:** HIST 490 Independent Study

Directed research or study on an individual basis, with emphasis on experiential learning. Topic and terms of evaluation to be determined by agreement between student and instructor, but likely to include a written research project and creation of a topical bibliography. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

HSTR 494 SEMINAR/WORKSHOP (V 1-4)**Pre-Fall 2009 UMW course:** HIST 409 Seminar

Selected topics of interest. Prereq: Junior standing. (Block 5 spring/odd-numbered years)

HSTR 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)**Pre-Fall 2009 UMW course:** HIST 400 Cooperative Education/Internship

This option is intended to provide students with an opportunity to incorporate an appropriate extended field experience into their academic program. Field placement options to include all facets of the historical professions. Prereq: Senior standing; and either ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

HSTR 499 SENIOR PROJECT/THESIS (V 1-15)**Pre-Fall 2009 UMW course:** HIST 498 Senior Project/Thesis

This course is intended as a culminating experience for the social science degree. Working with a faculty advisor, the student will generate a product that demonstrates a competent, independent application of basic historical research skills. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

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HTH—Health

[New CEN rubric effective Fall 2013]

HTH 220 HUMAN SEXUALITY (4)**Pre-Fall 2013 UMW course:** HHP 245 Human Sexuality

The study of basic aspects of human sexuality including human sexual response, development of gender roles and sexual lifestyles, reproduction and control of reproduction, AIDS and other STDs, the physiological impact of alcohol and drug education, and the legal

implications of sexuality and healthy lifestyles. Upon completion of this course, the student will have a basic understanding of the biological, sociological, and psychological perspectives of human sexuality. Students will be evaluated during group experiences, projects, examinations, and written assignments. \$5 Course Fee. (fall/spring)

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HTR—Hospitality, Tourism, & Recreation ***(dual pre-Fall 2012 UMW rubric and new CCN rubric effective Fall 2012)***

HTR 101 INTRODUCTION TO HOSPITALITY (3)

Pre-Fall 2012 UMW course: HTR 101 Introduction to Hospitality
A basic introduction to the lodging and food service industry including historical background, overview of various operations, and future trends. (spring)

HTR 112 FUNDAMENTALS OF TOURISM (3)

Pre-Fall 2012 UMW course: HTR 112 Fundamentals of Tourism
Designed to familiarize students with the tourism industry and its various components. The course will include the economic, social, cultural, and environmental impacts of the industry. (spring)

HTR 200 INTERNSHIP (V 1-8)

See *HTR 298 Internship*

HTR 210 DESTINATION GEOGRAPHY (4)

Pre-Fall 2012 UMW course: HTR 210 Destination Geography
The course will cover the major tourist attractions and destinations in the world with particular emphasis on Anglo-America. Destinations and attractions will be studied in light of the influence of various geographic features such as landform, climate, transportation, etc. (fall)

HTR 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

HTR 240 LEISURE SERVICES (4)

Pre-Fall 2012 UMW course: HTR/HHP 240 Leisure Services
This course examines the history, purpose, and function of leisure services delivered by government and private agencies. An analysis of the impact of leisure on society and the economy are addressed. (spring)

HTR 290 INDEPENDENT STUDY (V 1-4)

See *HTR 292 Independent Study*

HTR 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2012 UMW course: HTR 290 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

HTR 298 INTERNSHIP (V 1-8)

Pre-Fall 2012 UMW course: HTR 200 Internship
A laboratory field experience providing a practical application of acquired knowledge and theory in a professional setting. Students serve under the guidance of professional personnel with the support of a university faculty supervisor. Students will complete a series of written periodic reports and a portfolio in the form of a final comprehensive report on their experience. Prereq: Sophomore standing and c/i.

HTR 322 GROUP TRAVEL (3)

Pre-Fall 2012 UMW course: HTR 322 Group Travel
Instruction in the responsibilities of tour directors, managers, and escorts. Training includes procedures for packaging, pricing, and promotion, as well as supervision of tours. Prereq: BUS 241 (*ACTG 201*).

HTR 345 SPECIAL EVENTS (3)

See *BMGT 401 Event Management*

HTR 350 RESORT MANAGEMENT (3)

See *BMGT 350 Resort Management*

HTR 355 MEETING PLANNING (3)

See *BMGT 355 Convention Management*

HTR 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *HTR 498 Internship/Cooperative Education*

HTR 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

HTR 490 INDEPENDENT STUDY (V 1-4)

See *HTR 492 Independent Study*

HTR 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2012 UMW course: HTR 490 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

HTR 498 INTERNSHIP/ COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2012 UMW course: HTR 400 Cooperative Education/ Internship

A laboratory field experience providing a practical application of acquired knowledge and theory in a professional setting. Students serve under the guidance of professional personnel with the support of a university faculty advisor. Students will complete a series of written periodic reports, a portfolio in the form of a final comprehensive report on their experience, and a final oral presentation of their internship to the department faculty as part of their exit interview. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring/summer)

HTR 498 SENIOR PROJECT/THESIS (V 1-15)

See *HTR 499 Capstone*

HTR 499 CAPSTONE (V 1-15)

Pre-Fall 2012 UMW course: HTR 498 Senior Project/Thesis
An individual project or thesis closely associated with the student's academic program and career goals. Student works with one selected faculty member. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring/summer)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

ISSS—Interdisciplinary Studies: Social Science ***[New CCN rubric effective Fall 2009]***

ISSS 121 AMERICAN NATIONAL & STATE GOVERNMENT (4) (CD)

Pre-Fall 2009 UMW course: POLS 121 American National & State Government

A survey of basic institutions of government in the United States, the powers they exercise, and the practical and philosophical influences that contributed to their development. This course also examines the relationships between federal, state, and tribal sovereignty, and the

differences and similarities between how these three levels of government operate and are structured. Issues such as the differential effects of and access to power experienced by various cultural groups within the United States will be explored. Students will demonstrate understanding of course content through in- and out-of-class writing assignments. Lecture and group discussion. \$15 Course Fee. (fall)

ISSS 201 THE WORLD ECONOMY (4)

Pre-Fall 2009 UMW course: ECON/GEOG/POLS 201 The World Economy

An introduction to the development, structures, and processes of the world economy in the modern age. Analyses of the various attempts during this period to explain, understand, justify, and critique this world economy. Location analyses of economic activity and patterns of development. Emphasis placed on the interrelationships of resources, types of economic organization, environmental impact, and social justice. \$15 Course Fee. (fall)

ISSS 202 POLITICAL GEOGRAPHY OF THE ROCKY MOUNTAIN WEST (4) (CD)

This course provides an introduction to the regional geography of both American and Canadian sections of the Rocky Mountain West, including the study of environmental, political, linguistic, economic, social diversity—with special emphasis on the native peoples of the region—and spatial relationships. The course will investigate the nature of individual dignity, popular sovereignty, political power, and political authority through the analysis of regional political issues. Comparison will be made between American and Canadian democracy as forms of government based on federalism, separation of powers, checks and balances, civil rights and liberties, elected representation, and popular participation. Students will be evaluated on the basis of written/visual work and class participation. \$15 Course Fee. (spring)

ISSS 213 INTRODUCTION TO GLOBAL POLITICS (4)

A survey of the major institutions, issues, and political processes of the contemporary global system. Students will be introduced to the major theories that inform international political decision-making and policy development, and will use these theories to evaluate the substantive issues of world politics—including international conflict, genocide, global trade and capital flows, human rights, environmental decline, and population health. Evaluation is based on individual writing assignments, class participation, and group and individual presentations deriving from class activities. \$15 Course Fee. (spring)

ISSS 220 QUANTITATIVE SOCIAL RESEARCH METHODS (4)

Pre-Fall 2009 UMW course: ANTH/HIST/POLS/SOC 220 Introduction to Research Methods

A survey of quantitative methods and tools used by various disciplines across the social and behavioral sciences and the humanities to investigate individuals, cultures, and societies. Students are expected to demonstrate understanding and comprehension of course content through course examinations, out-of-class writing assignments, and the critical application of course content to a student-selected problem. Lecture, small group discussions, and problem-solving. Prereq: Completion of General Education Behavioral & Social Sciences requirements and MATH 131 (*STAT 121*); or c/i. (on demand)

ISSS 221 QUANTITATIVE RESEARCH METHODS FOR SOCIAL SCIENCE (4)

Pre-Fall 2009 UMW course: ANTH/HIST/POLS/SOC 221 Quantitative Methods for Social Science

This course introduces students to the basic quantitative research methods used in the Social Sciences and History. The emphasis in this course is not on the mathematics underlying quantitative design and statistics, but on understanding and using quantitative methods for research and for reasoning, thinking, and problem-solving. Areas to be covered include the relationship between theory and research methods, design, sampling, measurement, data collection, analysis, and reporting. Evaluation is based on writing assignments and class participation, as well as individual and group projects. Prereq: Completion of General Education Behavioral & Social Sciences requirements. (on demand)

ISSS 222 QUALITATIVE RESEARCH METHODS FOR SOCIAL SCIENCE (4)

Pre-Fall 2009 UMW course: ANTH/HIST/POLS/PSY/SOC 222 Qualitative Methods for Social Science

This course introduces students to the qualitative methods and tools used by social and behavioral sciences to investigate individual, cultural, and social behavior. Emphasis in this course is on understanding how to select and design appropriate qualitative studies, with special attention given to research ethics—particularly when working with human subjects. Methodologies emphasized include single and comparative case studies, naturalistic observation, surveys, and discourse analysis. Evaluation is based on writing assignments and class participation, as well as individual and group projects. Prereq: Completion of General Education Behavioral & Social Sciences requirements. (Block 5 spring)

ISSS 290 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

ISSS 292 INDEPENDENT STUDY (V 1-4)

Directed research or study, with emphasis on experiential learning. Prereq: c/i, c/pc, and c/vc. (on demand)

ISSS 294 SEMINAR/WORKSHOP (V 1-4)

Selected topics of interest with emphasis on experiential learning in democratic values and engagement with global society. Evaluation is based on writing assignments and class participation. Prereq: c/i. (on demand)

ISSS 305 SOCIAL & ANTHROPOLOGICAL THEORY (4)

Pre-Fall 2009 UMW course: SOC 305 Social Theory

This course will introduce students to both the classic and current sociological theories. Particular emphasis will be placed on sociological theory development from the Enlightenment to the present. In addition, students will closely examine the relationship between historical settings and social issues. Critical to course success will be an understanding of the importance of these theories to the development of sociology as a discipline. Students will demonstrate the ability to critically analyze course content through written critiques, independent investigations, and directed examinations. (on demand)

ISSS 315 POLITICAL SOCIOLOGY (4)

Pre-Fall 2009 UMW course: ANTH/SOC 315 Political Sociology

This course will attempt to answer three questions: (1) what is the source of political ideas and political behavior; (2) which groups control the state institutions and which groups have the most influence on state policies; and (3) what role the state plays in society. The state has a central role in stabilizing society and which groups benefit most from this role will be a topic of investigation. Students will also look at political life and culture of all social classes. Students will demonstrate an understanding of course content through written critiques, independent investigations, and directed examinations. Lecture and small group discussions; extensive reading assignments. (Block 4 fall/odd-numbered years)

ISSS 321 COMPARATIVE POLITICS (4)

Pre-Fall 2009 UMW course: POLS 321 Comparative Politics

This course provides an in-depth examination of the comparative study of politics across both time and space. Emphasis will be placed on the analysis of differing forms of government, processes of regime change, and the variety of political activity. Students will be evaluated based on class participation and written assignments requiring some individual research. Seminar. \$15 Course Fee. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; or c/i. (Block 3 fall/even-numbered years)

ISSS 341 POLITICAL ECONOMY (4)**Pre-Fall 2009 UMW course:** POLS 341 Political Economy

An introduction to classical, modern, and contemporary theories of political economy and the economic and political programs that were developed as a result of and in response to such theories. These principles will be used to promote understanding of how economic and political considerations constrain and influence one another. Students will be evaluated based on class participation and written assignments requiring some individual research. Seminar. \$15 Course Fee. Prereq: ECON/GEOG/POLS 201 (*ISSS 201*); and either ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; or c/i. (Block 1 fall/odd-numbered years)

ISSS 425 MONTANA INDIAN SOVEREIGNTY (4)**Pre-Fall 2009 UMW course:** SOC 425 Montana Indian Sovereignty

This course covers the struggle of Montana Indians to preserve their cultures in the face of the Dominant Culture's attempt to acculturate and eliminate indigenous Montana cultures. Issues of sovereignty and colonialism will be discussed, as well as the relationships between the tribes and the Dominant Culture, the Bureau of Indian Affairs, Tribal governments, and the Montana and United States governments. The economic, political, social, and cultural conditions affecting everyday lives of the Native Peoples of Montana will be examined. Students will exhibit an empirical understanding of content through written critiques and directed examinations. The course routine and makeup will include lectures, class discussions, small group activities, extensive reading, research, and written assignments. Prereq: ANTH/HIST/POLS/PSY/SOC 220, ANTH/HIST/POLS/PSY/SOC 221, ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; or c/i. (Block 2 fall/even-numbered years)

ISSS 441 WORLD RESOURCES (4)**Pre-Fall 2009 UMW course:** GEOG/POLS 441 World Resources

Resource scarcities are the source of conflict in many parts of the world, and appropriate and sustainable development is crucial to sustaining the supply of oil, forests, minerals, fish, and other resources. This course examines the nature and distribution of world resources, the potential for conflict over these resources, and potential means of achieving sustainability. Students will be evaluated on written assignments, a term project, and class discussion. Lecture and seminar. Prereq: Junior standing; or c/i. (on demand)

ISSS 450 SOCIAL STRATIFICATION (4)**Pre-Fall 2009 UMW course:** SOC 450 Social Stratification

Specific topics of interest include industrialization, bureaucracy, urbanization, economic globalization, and cultural imperialism. Students will demonstrate the ability to critically analyze course content through written critiques, independent investigations, and directed examinations. Lecture and small group discussions. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; or c/i. (Block 3 fall/even-numbered years)

ISSS 475 CULTURAL ECOLOGY (4)**Pre-Fall 2009 UMW course:** ANTH/SOC 475 Cultural Ecology

Cultural Ecology is the study of the interaction between culture and the larger environment. In the case of human beings, much of their environmental interaction is learned behavior that has become part of their reserve of learned skills, technology, and other cultural responses. The focus of this class will be the relation between cultural behavior and environmental phenomena. Students will demonstrate the ability to critically analyze course content through written critiques, independent investigations, and directed examinations. Lecture and small group discussions. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; or c/i. (Block 7 spring/even-numbered years)

ISSS 484 ECONOMIC ANTHROPOLOGY & SOCIOLOGY (4)**Pre-Fall 2009 UMW course:** ANTH/SOC 484 Economic Sociology

This course begins with the analysis of the economic relationships found among non-market economies including band, village, and peasant societies. Next, students will study historically the incorporation into the world market economy (capitalism) of all people on the planet. The study of existing people today is a study of the combination of two or more economic systems, both continuations of non-capitalist economies together with a larger capitalist system. The course then examines the economic relationships to all other social institutions. The course will explore the debates between the formal economic theory with competing Marxist and the substantivist economics as to the nature of economic history and the impact of globalization on everyday life. Students will exhibit an empirical understanding of content through written critiques and directed examinations. The course routine and makeup will include lectures, class discussions, small group activities, extensive reading, research, and written assignments. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; or c/i. (Block 3 fall/odd-numbered years)

ISSS 485 GENDER, ECONOMY, & SOCIAL CHANGE (4)**Pre-Fall 2009 UMW course:** ANTH/SOC 485 Gender, Economy, & Social Change

An introduction to the major theories and issues in the anthropology of gender. Focus on gender relations within the broad context of global economic and social change. Specific topics include the investigation of case examples between rural and industrialized regions around the world. Students will demonstrate the ability to critically analyze course content through written critiques, independent investigations, and directed examinations. Lecture and small group discussions. (Block 6 spring/odd-numbered years)

ISSS 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

ISSS 492 INDEPENDENT STUDY (V 1-4)

Advanced directed research or study, with emphasis on experiential learning. Students are expected to critically evaluate, analyze, and synthesize selected topics through authorship of an extensive course paper requiring independent archival skills. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

ISSS 494 SEMINAR/WORKSHOP (V 1-4)

Selected topics of interest, with emphasis on experiential learning. Prereq: Junior standing and c/i. (on demand)

ISSS 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

This course is intended as a culminating experience for the social science degree. Working with a faculty advisor, the student will generate a product that demonstrates a competent, independent application of basic sociological research. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

ISSS 499 SENIOR PROJECT/THESIS (V 1-15)

This course is intended as a culminating experience for the social science degree. Working with a faculty advisor, the student will generate a product that demonstrates a competent, independent application of basic sociological research. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

IT—Industrial Technology

(IT courses offered only at Helena College UM)

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses)]

IT 110 TECHNICAL WRITING (4)

The major elements of industrial technical writing. Writing assignments include technical definitions, abstracts and summaries, mechanism descriptions, instructions, process analyses, technical reports, and proposals. Emphasis is placed on clarity, conciseness, organization, format, style, and tone. The course includes an introduction to research methods and documentation. All readings are selected from industrial material.

IT 120 POWER FUNDAMENTALS (3)

This course provides students a broad introduction to historical development and contemporary use of current energy sources and their economic, environmental, and social impacts. Specific areas of study include use of simple machines, conversion of work to energy, basic electrical concepts, and two and four stroke engine theory. Traditional energy production, alternative power, and sustainability are also areas of study. Power fundamentals is an activity-centered course with the majority of lab and practical focus on small engines. Emphasis will be on the four major theories of small engines—compression, ignition, carburetion, and governing. \$25 Course Fee. (fall/spring)

IT 130 GRAPHIC COMMUNICATION (3)

This course provides students an introduction to graphic communication, with the primary emphasis being technical drawing and geometric construction. This course will cover a wide range of Graphic Communication experiences for the purpose of developing an ability to plan, express, and interpret ideas correctly and efficiently. \$25 Course Fee. (fall)

IT 135 COMPUTER-AIDED DRAFTING (4)

See *DDSN 114 Introduction to Computer-Aided Drafting*

IT 141 PLASTICS & COMPOSITES (2)

This course introduces the student to various types of plastics and their most common uses. Students will have the opportunity to observe several plastic uses and methods in an industrial setting. This class will provide a lab setting for students to use plastics as a basis component in material processing. (spring)

IT 210 HISTORICAL DEVELOPMENTS IN INDUSTRIAL TECHNOLOGY (2)

Technological developments have changed the direction of history over the years. This course focuses on a select group of these developments and examines their effect on the society and economy of the time. Activities will include the research and fabrication of historical implements. (on demand)

IT 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

IT 220 APPLIED ELECTRICITY & ELECTRONICS (2)

Students learn the principles of electricity including energy; power; Ohm's and Watt's law; series, parallel and combination circuits, direct and alternating current. The course is delivered in a lab-based setting and is intended for introductory level students. Successful students will learn basic terminology as well as the use of electricity and electronics to safely solve problems. Residential wiring and circuitry are also a point of emphasis. \$25 Course Fee. Prereq: IT 120. (fall)

IT 230 PROJECT MANAGEMENT & STATISTICAL PROCESS CONTROL (3)

The project management portion of this course is about the study of optimizing tasks, times, resources, and costs while finishing projects as planned. The course presents an overview of traditional project management concepts and techniques (e.g., Gantt charts, PERT, CPT), along with several technical issues related to their effective use, as well as the problems associated with effective management and coordination of multiple discrete projects within an overall system.

IT 240 WOODWORKING & STATIONARY MACHINES (3)

This course introduces students to the fundamental use of stationary machines commonly used in the shop/lab setting. Emphasis will be on safety and general usages and applicable material processing and practices. Students will have the opportunity for skill development as well as acquisition of techniques and processes for operating stationary machines. \$50 Course Fee. (fall)

IT 241 MACHINING (3), and IT 241L MACHINING LAB

See *MCH 200 Machining*

IT 245 WOOD TECHNOLOGY IN INDUSTRY (3)

See *MCH 275 Wood Technology in Industry*

IT 246 ADVANCED WOODWORKING & STATIONARY MACHINES (4)

This course enhances students' use of stationary machines commonly used in a shop, lab setting. Emphasis will be on safety and general usages and applicable material processing and practices. The student should be able to name, recognize, and build the different components used in cabinet construction. Students will be introduced to the usage of a multi-pin borer, stationary and portable pocket cutters, European hinge cutter, as well as advanced table saw techniques and joinery practices. Students are expected to design, draw, and build a personal wood project as an assessment of personal skill development in advanced woodworking. Students will each develop and deliver a minimum of one lesson plan and lab demonstration. \$50 Course Fee. Prereq: IT 130 or IT 135 (*DDSN 114*); and IT 240. (spring)

IT 260 COMPUTER-AIDED MANUFACTURING: METALS (4)

See *MCH 279 Computer-Aided Manufacturing: Metals*

IT 270 TECHNOLOGY EDUCATION (3)

This course prepares the student to teach in the area of Technology Education. Particular focus is given to modular teaching techniques and emphasis is given to teaching in the various sub-areas of technology. Practical examples of various technologies are demonstrated for the students. Student competency is demonstrated by project completions in these sub-areas. \$70 Course Fee.

IT 290 INDEPENDENT STUDY (V 1-4)

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

IT 310 TECHNOLOGICAL IMPLICATIONS FOR HUMANITY (3)

Students taking this course will examine historical and contemporary technological developments, and will analyze the social, economic, political, and environmental impact of those technologies on mankind. (fall)

IT 311 TECHNOLOGY LABORATORY MANAGEMENT (2)

This course enhances student awareness of management concepts and techniques in a shop/lab setting. Students will study tool and material storage arrangement as well as floor plans and stationary tool placement. Emphasis will be on safety and general usages and applicable material processing and practices with regard to flow and productivity process. Special emphasis will be given to planning for optimum teaching-learning process in the lab environment. Students will perform equipment maintenance and repair. Students will each develop a lab/shop use policy. Each student will deliver a minimum of one lesson plan and one lab demonstration. \$25 Course Fee. Prereq: IT 130 or IT 135 (*DDSN 114*); and IT 240. (fall)

IT 345 COMPUTER-AIDED MANUFACTURING (4)

See *MCH 375 Computer-Aided Manufacturing*

IT 350 STRUCTURAL ANALYSIS & CONSTRUCTION TECHNOLOGY (4)

See *CSTN 120 Carpentry Basics Rough-In Framing*

IT 351 METHODS & MATERIALS IN INDUSTRIAL TECHNOLOGY (4)

This course provides students an introduction to the techniques and planning processes used in Industrial Technology Instruction. Students will gain skills required to effectively manage a lab and classroom environment. Students will develop a teaching aid directory file cabinet both physically and electronically. This course includes unit and lesson plan development, classroom management techniques, textbook selection, as well as use of common instructional technologies. Students will participate in microteaching and field experiences to gain experience as classroom and lab managers. \$20 Course Fee. Prereq: All 100- and 200-level IT courses; or c/i. (spring)

IT 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

This option is intended to provide students with an opportunity to incorporate an appropriate extended field experience into their academic program. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

IT 409 SEMINAR: TRENDS & ISSUES IN TECHNOLOGY (V 1-3)

The purpose of this course is to offer a forum for discussion of relevant topics affecting society and technology. It will be offered on a

demand basis with credit hour reflecting the scope of topics discussed. (on demand)

IT 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

IT 440 MASS PRODUCTION (3)

In this course, students will examine a variety of topics and techniques needed to teach "Manufacturing Technology" in the high school and middle school classroom. Students will gain first-hand experience in developing a mass-production course including appropriate projects, building jigs, business, materials handling, research and development, production floor organization, marketing, and shipping and receiving concepts. \$35 Course Fee. Prereq: Senior standing. (fall)

IT 450 RESIDENTIAL HOUSE DESIGN & ENERGY MANAGEMENT (3)

This course examines the design considerations and techniques for the residential housing industry. Included is an in-depth study of alternative heating and energy management methods for reducing the operational costs of a home. Prereq: IT 350 (*CSTN 120*); or c/i. (fall)

IT 490 INDEPENDENT STUDY (V 1-4)

This course provides Junior or Senior level students an opportunity to conduct advanced study in areas relating to Industrial Technology, but not covered in regular course offerings. Each student must provide a written prospectus prior to the beginning of the semester in which the student will earn the credit. A summary report is required at the end of the semester with details of the findings of the study. Prereq: Junior/Senior standing, c/i, c/pc, and c/vc. (fall/spring)

IT 498 SENIOR PROJECT (V 1-3)

This course provides Senior level students with an opportunity to complete research and skill development in areas not covered in graduation requirements. Students will submit a proposal and evaluation criteria at the start of the semester. Upon completion of the course, students will provide a report explaining research and skill development techniques explored along with the findings of the project. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

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ITS—Information Technology Systems ***(New CCN rubric effective Fall 2010)***

ITS 176 INTRODUCTION TO ROUTER TECHNOLOGY (4)

Pre-Fall 2010 UMW course: COMS 176 Introduction to Router Technology (CISCO II)

This course covers router theory and router technologies with both lecture and hands-on activities. Topics include beginning router configurations, routed and routine protocols, and introduction to LAN switching. This is the second course in a four-course series that leads toward certification in both the ComITA Network+ and CCNA (Cisco Certified Networking Associate). This course is articulated through Tech Prep. Prereq: c/i. (spring)

ITS 205 COMPUTER HARDWARE & SOFTWARE MANAGEMENT (4)

Pre-Fall 2010 UMW course: COMS 210 Computer Hardware & Software Management

This course provides a basic understanding of how personal computers work. Topics include hardware and software, understanding the motherboard, the CPU, and troubleshooting basics, managing memory, understanding, installing, and troubleshooting disk drives, supporting input, output, and multimedia devices, supporting printers, installing and using operating systems, managing and supporting operating systems, connecting PCs to networks and the Internet, and maintenance and

troubleshooting fundamentals. Students will be evaluated by hands-on projects, oral and written assignments, and examinations. \$15 Course Fee. (fall)

ITS 258 ROUTING & SWITCHING (4)

Pre-Fall 2010 UMW course: COMS 226 Routing & Switching (CISCO III)

This course covers advanced router configurations with both lecture and hands-on activities. Topics include LAN switching, network management, and advanced network design. This is the third course in a four-course series that leads toward certification in both the ComITA Network+ and CCNA (Cisco Certified Networking Associate). This course is articulated through Tech Prep. Prereq: c/i. (spring)

ITS 270 NETWORK DESIGN (4)

Pre-Fall 2010 UMW course: COMS 276 Network Design (CISCO IV)

This course is a project-based course in network design. Topics include advanced network design projects and advanced network management projects. This is the final course in a four-course series that leads toward certification in both the ComITA Network+ and CCNA (Cisco Certified

Networking Associate). This course is articulated through Tech Prep.
Prereq: COMS 226 (*ITS 258*); or c/i. (spring)

ITS 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2010 UMW course: COMS 290 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

ITS 360 BUSINESS TELECOMMUNICATIONS & NETWORKING (3)

Pre-Fall 2011 UMW course: COMS 387 Telecommunications
This course covers the essential components found in telecommunication systems including content relating to data transmission, signal propagation, encoding and decoding, multiplexing, channel capacity, microwave and satellite communication, and computer networking. Students will also be able to utilize the Internet for research and communication purposes including home page development, e-mail transactions, and development of e-commerce strategies. Prereq: COMS 210 (*ITS 205*); or c/i. (fall)

ITS 403 SYSTEMS ANALYSIS & DESIGN (4)

Pre-Fall 2010 UMW course: COMS 403 Systems Analysis & Design
The information system functions as a service and supports the overall operations of the organization. This course is designed as a capstone; it ties together concepts learned in various computer application courses as well as introductory management courses. This course emphasizes management functions and how they apply to and interrelate with information systems. This course contains a significant project management theory component including the hands-on use of project management software in assisting the analysis and design aspects of the

systems project. Students will be evaluated on the basis of performance on examinations, case studies, and completion of a systems project for a selected business/institution. Prereq: COMS 205 (*BMIS 270*), COMS 210 (*ITS 205*), COMS 260 (*CAPP 254*), and COMS 265 (*CAPP 266*); or c/i. (fall)

ITS 420 CERTIFICATIONS IN SOFTWARE (4)

Pre-Fall 2010 UMW course: COMS 420 Certifications in Hardware, Software, & Networking;
2010-12: *ITS 420 Certifications in Hardware & Software*
Students will work closely with their instructor to identify and review nationally recognized software and internet/computer core exams. Students are responsible for all exam fees. Students will earn a minimum of one computer certification and will be evaluated through trainings and examinations. Prereq: COMS 135 (*CAPP 131*) and COMS 236 (*CAPP 251*). (fall)

ITS 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2010 UMW course: COMS 490 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring/summer)

ITS 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2010 UMW course: COMS 400 Cooperative Education/Internship
This option is intended to provide students with an opportunity to incorporate an appropriate extended field experience into their academic program. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

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KIN—Kinesiology ***[New CCN rubric effective Fall 2012]***

KIN 205 FOUNDATIONS & SCIENTIFIC FUNDAMENTALS IN HEALTH & HUMAN PERFORMANCE (4)

Pre-Fall 2012 UMW course: HHP 143 Foundations of Health & Physical Education
Historical, philosophical, sociological, psychological, and scientific underpinnings of health and physical education. Emphasis on development of multidimensional perspective on design of health and physical education activities and motor skill development. Students will demonstrate an understanding of the relationships among historical, anatomical/physiological, psychological, and sociological perspectives in the field of health & physical education through a variety of hands-on and lab experiences.

KIN 221 HEALTH ANATOMY & PHYSIOLOGY (4)

This course will focus on key aspects of anatomy and physiology necessary for students in allied health professions. It is more specifically geared toward students who will work in the areas of health enhancement education, community health, and kinesiology. However, it is also a beneficial course for those in other health-related areas like nutrition and exercise science. The aim of this course is to provide foundational knowledge of the structure and function, as well as the application of knowledge, of the primary body systems including the skeletal, muscular, nervous, cardiovascular, respiratory, endocrine, immune, lymphatic, digestive, and urinary systems, as well as body metabolism. Prereq: KIN 205.

KIN 320 EXERCISE PHYSIOLOGY (4)

Pre-Fall 2012 UMW course: HHP 317 Exercise Physiology
An introduction to the physiological aspects of human motion. Emphasis on the physiological factors to include the metabolic, cardio-vascular-respiratory, and neuro-muscular-skeletal systems that influence physical activity and exercise with reference to the acute and chronic effects of exercise and improving or maintaining physical

fitness. Students will demonstrate competency through class participation, examinations, completion of laboratory assignments, and projects. Prereq: KIN 221; or c/i. (spring)

KIN 325 BIOMECHANICS (4)

Pre-Fall 2012 UMW course: HHP 315 Biomechanics (4)
An introduction to the anatomical and biomechanical aspects of human motion. Involves linear and angular kinematics and kinetics in the context of human motion, mechanics of fluids, applied anatomy, with emphasis on skeletal and muscular systems, and the analysis of selected sport activities. Students will demonstrate competency through class participation, examinations, completion of laboratory assignments, and projects. Prereq: KIN 221; or c/i. (fall)

KIN 330 MOTOR LEARNING & CONTROL (4)

Pre-Fall 2012 UMW course: HHP 319 Motor Learning & Psychology
A conceptual and practical introduction to the neural mechanisms and performance characteristics of human movement production and motor learning. Introduction to the relationships among psychological variables and participation and performance in sport and exercise. Students will demonstrate competence through class participation, examinations, completion of laboratory assignments, and group research project/presentation. Prereq: KIN 221; or c/i. (spring)

KIN 410 ADVANCED STRENGTH TRAINING & CONDITIONING (4)

Pre-Fall 2012 UMW course: HHP 416 Conditioning Program Development
A study of the application of physiological, psychological, biomechanical, and maturational principles that guide effective fitness programming through a required field experience. Students will analyze conditioning and rehabilitation programs including program selection, prescription, and evaluation. Students will demonstrate competency through practical application while working with clients,

class participation, examinations, portfolios, and completion of assignments and projects. Prereq: HHP 311 (*AHAT 210*); or c/i. (spring/even-numbered years)

KIN 490 UNDERGRADUATE RESEARCH (V 1-5)

Directed research or study on an individual basis. Prereq: c/i and c/pc.

KIN 492 INDEPENDENT STUDY (V 1-4)

Directed research or study on relevant kinesiology topics. Prereq: c/i, c/pc, and c/vc. (fall/spring)

KIN 494 SEMINAR/WORKSHOP (V 1-4)

Upon completion of the course, a student will experience selected topics in health, kinesiology, and physical education. This course will be offered with an integrated approach incorporating concepts of the exercise science, health, and physical education fields, as well as the relationship of concepts to other fields of study. Assessment will

involve methods appropriate to the course. Prereq: c/i and c/pc. (on demand)

KIN 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

A 15-week fieldwork experience related to the student's career or post-graduate education goals. Students will develop a learning contract in conjunction with their employer, maintain a portfolio of their work experiences, and make a final presentation of their exit interview. A minimum of 40 clock hours per credit is required. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring/summer)

KIN 499 SENIOR THESIS/CAPSTONE (V 1-15)

An individual project or thesis closely associated with the student's academic program and career goals. Student works with one selected faculty member. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

LIB—Library Science

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]

LIB 461 INFORMATION LITERACY & CURRICULUM (3)

See *LIBM 461 Information Literacy*

LIB 464 REFERENCE RESOURCES (3)

See *LIBM 464 Reference Resources*

LIB 469 LIBRARY MEDIA PRACTICUM (3)

C&I 485 LIBRARY MEDIA PRACTICUM (3)

See *LIBM 495 Practicum*

C&I 480 COLLECTION DEVELOPMENT & CURRICULUM (3)

See *LIBM 463 Library Collection Development*

C&I 483 LIBRARY MEDIA TECHNICAL PROCESSES (3)

See *LIBM 465 Library Media Technical Processes*

C&I 484 ADMINISTRATION & ASSESSMENT OF LIBRARY MEDIA (3)

See *LIBM 468 Administration & Assessment of the Library Media Program*

C&I 488 LIBRARIES & TECHNOLOGY (3)

See *LIBM 466 Libraries & Technology*

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

LIBM—Library Media

[New CCN rubric effective Fall 2012]

The Library Media K-12 Minor is offered through the combined campuses of

The University of Montana Western, Dillon (UMW) and The University of Montana, Missoula (UMM)

Note: Course rotations may be subject to change; contact the department for specific course information.

To apply for the Library Media Program on the Dillon and Missoula campuses, go to: <http://my.umwestern.edu/Academics/library/libk12/grad/admission.htm>.

LIBM 461 INFORMATION LITERACY (3)

Pre-Fall 2012 UMW course: LIB 461 Information Literacy & Curriculum

The course will focus on instructional techniques for teaching literacy skills, information retrieval, research, and lifelong learning. Exploration of how curriculum is designed and how library instruction is integrated into the classroom will be studied. Collaborative planning, methods of library instruction, and its assessment will be examined. Students will develop an integrated unit, participate in class discussions, and create a school research process model. Internet only. (UMW-spring/even-numbered years; summer/odd-numbered years)

LIBM 463 LIBRARY COLLECTION DEVELOPMENT (3)

Pre-Fall 2012 UM course: C&I 480 Collection Development & Curriculum

The course will examine the assessment and development of K-12 library collections with specific attention being placed on factors affecting the collection, tools to assist in building the collection, and policies and procedures leading to the creation of a quality library media collection. Students will demonstrate the assimilation of course content through library literature research, oral presentations, written

papers, and examinations of various types of selection tools. Internet only. (UMM-fall)

LIBM 464 REFERENCE RESOURCES (3)

Pre-Fall 2012 UMW course: LIB 464 Reference Resources

This class focuses on the evaluation, selection, and use of basic reference resources. It also contains teaching of media skills, information negotiation, search strategies, database use, and information services. Instruction will include research, projects, and discussion. Assessment will be based on participation, written assignments, activities, a major paper or bibliography, or a combination thereof. Internet only. (UMW-fall)

LIBM 465 LIBRARY MEDIA TECHNICAL PROCESSES (3)

Pre-Fall 2012 UM course: C&I 483 Library Media Technical Processes

A presentation of cataloging concepts, standards, basic tools, and automation concerns with particular emphasis on their application in a school library and on developing students' practical skills as catalogers will be studied. The acquisition and technical services functions of a school library media center will also be examined. Students are expected to demonstrate understanding and comprehension of course

content through examinations and writing assignments. Internet only. (UMM-spring)

LIBM 466 LIBRARIES & TECHNOLOGY (3)

Pre-Fall 2012 UM course: C&I 488 Libraries & Technology
The planning and implementation of various technologies in the automation of library services and the instructional process will be explored. Retrieving and evaluating electronic information and database searching, networking and resources sharing, and telecommunications plus multimedia and the impact of technology on education will be examined. Students will use course content to plan for the automation of a school library media center and incorporate various technologies in the teaching and learning process. Demonstrations, discussions, and projects will be used for instruction with evaluation consisting of papers, presentations, and the creation of a school technology planning document. Internet only. (UMM-spring/even-numbered years; summer/odd-numbered years)

LIBM 468 ADMINISTRATION & ASSESSMENT OF THE LIBRARY MEDIA PROGRAM (3)

Pre-Fall 2012 UM course: C&I 484 Administration & Assessment of Library Media

This course consists of organizing and operating a school media center including internal policy and external relations, concepts of professionalism, commitment, and values of school librarianship. Students will develop basic skills that are involved in the administration and management of a K-12 library media program such as budgeting, methodology needed to plan and implement library programs, integrate curriculum, and update library technology. Students will be assessed through written assignments, formal oral presentations, and informal class discussions. Internet only. (UMM-spring/odd-numbered years; summer/even-numbered years)

LIBM 492 INDEPENDENT STUDY (3)

Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

LIBM 495 PRACTICUM (3)

Pre-Fall 2012 UMW course: LIB 469 Library Media Practicum
Pre-Fall 2012 UMM course: C&I 485 Library Media Practicum
Supervised field experience in selected phases of library-media center operations, including assessment. Prereq: 22 credits in library media coursework and c/i. (summer/spring intermittent; UMM-summer 2014/spring 2015)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

LING—Linguistics
[New CCN rubric effective Fall 2012]

LING 413 HISTORY, STRUCTURE, & NATURE OF LANGUAGE (4)

Pre-Fall 2012 UMW course: ENG 413 History, Structure, & Nature of Language
Introduction to the principles of linguistics and examination of the evolution and characteristics of the English language and human

languages in general, with particular attention to semantics and major revisions of American English. Instruction will be a combination of lecture, group discussion, and other experiential activities. (spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

LIT—Literature
[New CCN rubric effective Fall 2009]

LIT 162 FOLK & FAIRY TALES (4)

Pre-Fall 2009 UMW course: ENG 162 Folk & Fairy Tales
A comparison of folk and fairy tales common to numerous cultures throughout the world and over time, as well as an examination of unique stories with folk origins. Special emphasis will be given to the multi-cultural aspects of the study of folk literature, as well as the importance of fairy tales in the education and development of children. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc.

LIT 163 FANTASY & SCIENCE FICTION (4)

Pre-Fall 2009 UMW course: ENG 163 Fantasy & Science Fiction
A study of the genre of science fiction and fantasy from its origins to the present day, with particular emphasis on how it voices contemporary concerns. Authors may include H.G. Wells, Jules Verne, J.R.R. Tolkien, C.S. Lewis, Philip K. Dick, and Ursula K. LeGuin. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc.

LIT 166 LITERATURE & POLITICS (4)

Pre-Fall 2009 UMW course: ENG 166 Literature & Politics
A study of the way literature interacts with political life. Examples may be taken from a wide variety of time periods and cultures. The course will involve students in relating literature to real-life issues. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc.

LIT 167 LITERATURE & GENDER (4)

Pre-Fall 2009 UMW course: ENG 167 Literature & Gender
An examination of the issue of gender in literature in different cultures and time periods. The course will focus on the construction of gender roles, and may include issues of femininity, masculinity, and gay and lesbian orientations. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc.

LIT 168 LITERATURE & THE ENVIRONMENT (4)

Pre-Fall 2009 UMW course: ENG 168 Literature & the Environment
This course probes the whole idea of being at home in the natural world. It foregrounds ways in which physical environment directly affects human lives. It studies how the outdoors—whether wilderness areas, urban landscapes, or something in between—shapes and changes people, in some cases enabling them to aesthetically and morally redefine themselves. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc.

LIT 169 LITERATURE AS POPULAR CULTURE (4)

Pre-Fall 2009 UMW course: ENG 169 Literature as Popular Culture
This course examines ways in which particular literary texts capture and reflect defining characteristics of popular culture at a given time. In some cases, such texts may themselves be best sellers rather than works regarded over time as literary masterworks. The divergence between best sellers and literary masterworks invites analysis of the whole notion of literary reception. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc.

Students with scores within ranges indicated below may be admitted to 200-level English courses prior to taking ENG 102 (WRIT 101), or with consent of instructor (c/i):

- | | |
|-------|--|
| 10-12 | on the Writing Subscore or an equivalent score on the Combined English/Writing section of the Optional Writing Test of the ACT; or |
| 10-12 | on the Essay or an equivalent score on the Writing Section of the SAT; or |
| 5-6 | on the Montana University System Writing Assessment; or |
| 4-5 | on the AP English Language or English Literature Examination. |

All students are required to successfully complete ENG 102 (WRIT 101) or its equivalent for General Education credit.

LIT 210 AMERICAN LITERATURE I (4)

Pre-Fall 2009 UMW course: ENG 263 Early American Voices
Contrary to some stereotypes, the area that became the United States yielded a rich and diverse literature before white settlement. This course surveys early Native American voices as well as the literature of explorers, slaves, and colonists. It surveys, too, changes in patterns of literary imitation, as well as theme and style, from the colonial period through the early decades of U.S. independence. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc. Prereq: ENG 102 (WRIT 101); or c/i. (spring/odd-numbered years)

LIT 218 VISIONS OF AMERICA (4)

Pre-Fall 2009 UMW course: ENG 280 Visions of America
This course examines imagery about the U.S. derived not from literary texts but from older and contemporary popular media. Students will study the origins and perpetuation of various stereotypes according to popular music and visual languages, both print and electronic media. Students gain an understanding of a visual literacy based upon a self-conscious, critical approach to these languages. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits

with authors, interviews, internet and off-campus activities, research practice, etc. Prereq: ENG 102 (WRIT 101); or c/i.

LIT 264 AMERICAN ROMANCE (4)

Pre-Fall 2009 UMW course: ENG 264 American Romance
This course studies the flowering of American letters in the decades before the Civil War. American literary history for a long time has deemed this period the American Renaissance. This flowering includes the legacy of gothicism and the Transcendentalist movement, and demonstrates variations on the concept of romance as a literary form. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc. Prereq: ENG 102 (WRIT 101); or c/i. (fall/odd-numbered years)

LIT 265 REALISTS, NATURALISTS, MODERNISTS (4)

Pre-Fall 2009 UMW course: ENG 265 Realists, Naturalists, Modernists
Surveying the late-19th and early-20th centuries in American literature, this course analyzes several reactions to earlier notions of American romance. All genres reveal significant changes in allegiance to other literary paradigms. During this diverse period, writers embrace what they construe as realism, naturalism, and differing versions of modernism (e.g., symbolism) and, in most cases, they construct their worlds differently from their predecessors. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc. Prereq: ENG 102 (WRIT 101); or c/i. (spring/even-numbered years)

LIT 266 GENERATIONS & CONFLICTS (4)

Pre-Fall 2009 UMW course: ENG 266 Generations & Conflicts
This course will locate various trends in 20th century American literature from modernism to postmodern sensibility. As the U.S. grew as a global military and economic power, its literature reflected a growing sense of isolation, hopelessness, despair, and disenfranchisement. From the expatriates early in the century to the beats mid-century and beyond, the 20th century may well be the century when American literature found its voice, a voice strengthened by its fragmentation. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc. Prereq: ENG 102 (WRIT 101); or c/i. (fall/even-numbered years)

LIT 273 ORAL LITERATURE (4)

Pre-Fall 2009 UMW course: ENG 273 The Oral Tradition
A study of oral literature. Possible authors may include Homer and the *Beowulf*-poet. Possible types of literature may include the myths, legends, and folk tales passed down by word of mouth in a variety of different cultures. Emphasis will be on the relationship between the oral literature of a given period and larger social issues. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc. Prereq: ENG 102 (WRIT 101); or c/i. (spring/odd-numbered years)

LIT 274 THE MANUSCRIPT TRADITION (4)

Pre-Fall 2009 UMW course: ENG 274 The Manuscript Tradition
A study of the literature of literate cultures before the invention of printing. The course may cover the period of British literature from Old English (*Beowulf*) to the beginning of the Renaissance, or more recent manuscript traditions in other cultures. Emphasis will be on the relationship between the literature of a given period and its surrounding milieu. A variety of teaching and learning practices are included in this

course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc. Prereq: ENG 102 (*WRIT 101*); or c/i. (fall/odd-numbered years)

LIT 276 THE DECLINING EMPIRE (4)

Pre-Fall 2009 UMW course: ENG 276 The Declining Empire

A study of literature beginning with the end of the Boer War and relating to the decline of the British Empire through the 20th century. Texts may include those from formerly colonized countries and commonwealth countries. Emphasis will be on the literature as related to historical, cultural, and artistic movements. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc. Prereq: ENG 102 (*WRIT 101*); or c/i. (fall/even-numbered years)

LIT 277 THE PRINT CULTURE (4)

Pre-Fall 2009 UMW course: ENG 275 The Print Culture

A study of literature as affected by the invention of printing. The material covered will extend through the 19th century when new developments in printing technology and paper made mass-market literature available for the first time. The course will focus mainly on material from Britain and its empire. Emphasis will be on the relationship between the literature and intellectual and social history. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc. Prereq: ENG 102 (*WRIT 101*); or c/i. (spring/even-numbered years)

LIT 282 CHILD & YOUNG ADULT LITERATURE (4)

Students survey literature for children and young adults. A critical student learning outcome is an understanding of the development in the 19th and 20th centuries of literature for youth as a distinct literary category. Students compare past works with diverse present-day content and forms, including novels, Native American literature, poetry, film and play scripts, picture books, graphic novels, periodicals, and computer games. Classic and award-winning materials are emphasized. Students develop an understanding of oral and folk traditions that preceded print and electronic publication, including indigenous oral traditions. Each student completes a reflective reading journal and an individualized research project. Students are assessed on the breadth of their reading, and the depth of oral and written presentations. Experiential learning activities include small group work, guided library research, and peer editing.

LIT 285 MYTHOLOGIES (4)

Pre-Fall 2009 UMW course: ENG 330 Mythology

Students will explore the mythologies of various cultures, such as the ancient Greeks, Vikings, Romans, Egyptians, Chinese, and indigenous Americans including, but not limited to, mythology of Montana American Indians. Special emphasis will be placed on similarities these stories highlight among such cultures. Instructional activities will include a combination of lecture, group discussion, and other experientially-based activities. Prereq: ENG 102 (*WRIT 101*); or c/i. (fall)

LIT 290 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

LIT 300 LITERARY CRITICISM (4)

Pre-Fall 2009 UMW course: ENG 279 Fundamentals of Literary Theory

This course will introduce students to some of the leading schools of contemporary literary theory and their application. Topics to be

considered may include the following: structuralism, deconstruction, psychoanalysis, feminism, new historicism, post-colonialism, post-modernism, gay and lesbian studies, and cultural studies. This course should enable students to read contemporary criticism with understanding and to attempt theoretically informed criticism themselves. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc. Prereq: ENG 102 (*WRIT 101*); or c/i. (spring)

LIT 302 LITERATURE IN TRANSLATION (4)

Pre-Fall 2009 UMW course: ENG 320 Literature in Translation

Exploration of the great themes, issues, and conflicts of human existence as they are reflected in works representing a variety of non-English genres, cultures, and ethnic groups. The literature under study comes from a variety of cultures. Instructional activities will include a combination of lecture, group discussion, and other experientially-based activities. (spring)

LIT 335 WOMEN & LITERATURE (4)

Pre-Fall 2009 UMW course: ENG 362 Seminar in Women's Literature

Explores the cultural roles of women through works written by and for women. The course content will focus according to professor's specialty and may center on a specific theme, movement, culture, period, event, or genre. Course instruction will be a combination of lecture, group discussion, and other experientially-based activities. (fall/even-numbered years)

LIT 339 LITERARY REGIONS (4)

Pre-Fall 2009 UMW course: ENG 339 Literary Regions

Long a dismissive concept in literary history, regionalism has recently become a privileged mode and term for analysis in literature. This course evaluates the validity of literary regionalism through surveying past and present literature of a given region. (spring/even-numbered years)

LIT 361 POETRY & THOUGHT (4)

Pre-Fall 2009 UMW course: ENG 361 Poetry & Thought

This course explores how we come to construct meaning in the context of poetic thought, and how this construct carries over to our understanding of the events of our everyday lives; experiences too easily informed by ambiguity, metaphor, and simile. This course will involve students in lecture, group discussions, and readings. (fall/odd-numbered years)

LIT 441 DRAMA HISTORY & LITERATURE GENRE (4)

Pre-Fall 2009 UMW course: DR/ENG 441 Drama History & Literature Genre

This course provides students with an opportunity to study theatre history and to examine important plays of various historical epochs. It examines selected plays central to the development of Western drama, with critical emphasis on a cultural, historical, and theatrical analysis of these works. Upon completion of this course, students will have analyzed, compared, and performed works from major periods of Greek and Roman drama, medieval drama, theatre of the English Renaissance, French neoclassical drama, romanticism, naturalism, and realism, and major dramatic currents of the 20th century. (fall/even-numbered years)

LIT 473 STUDIES IN SHAKESPEARE (4)

Pre-Fall 2009 UMW course: DR/ENG 455 Shakespeare

Through reading, discussion, lecture, and enactment of scenes, learners study several of Shakespeare's plays and a number of his sonnets. Students are assessed according to their ability to recognize elements of dramatic structure, interpret meaning, analyze literary elements such as character and theme, draw connections to the milieu in which Shakespeare wrote, and make critical responses. Students

may be asked to demonstrate competencies through written work, oral presentations, and/or examinations. (spring)

LIT 479 STUDIES IN LITERARY THEORY (4)

Pre-Fall 2009 UMW course: ENG 479 Seminar in Literary Theory
Investigation in some depth of one or more contemporary literary theories. Students will further their understanding of theories introduced in ENG 279/LIT 300. Focus will be on primary texts of particular theoretical schools. This course is intended to develop both depth and breadth of students' knowledge and will result in a paper showcasing each student's understanding through application to a literary text. Instructional activities will include a combination of lecture, group discussion, and other experientially-based activities. Prereq: ENG 279 (LIT 300). (fall/even-numbered years)

LIT 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

LIT 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: ENG 490 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

LIT 494 SEMINAR: LITERARY PERIOD (V 1-4) R

Pre-Fall 2009 UMW course: ENG 452 Seminar in Literary Period
Consideration of the works of major writers during a specific literary period such as Seventeenth Century, Romantic, American Renaissance, Victorian. Selection of period will vary. Repeatable for credit under a separate topic. Prereq: ENG 279 (LIT 300).

LIT 494 SEMINAR: GENRE (V 1-4) R

Pre-Fall 2009 UMW course: ENG 453 Genre Seminar
Study of several important works within a literary type such as the epic, lyric poetry, novel, short story, drama, science fiction. Selection of type will vary. Repeatable for credit under a separate topic. Prereq: ENG 279 (LIT 300).

LIT 494 SEMINAR: MAJOR AUTHORS (V 1-4) R

Pre-Fall 2009 UMW course: ENG 454 Authors Seminar
In this course, the works of a single writer or works by a cluster of writers related thematically, geographically, historically, and/or ideologically will be studied. Such a study will help develop in the student an appreciation not only for the continuity within a writer's oeuvre, but also the diversity within the same writings. Repeatable for credit under a separate topic. Prereq: ENG 279 (LIT 300).

LIT 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2009 UMW course: ENG 400 Cooperative Education/Internship
This experience incorporates an appropriate work experience into students' academic preparation. Students apply their knowledge and skills in professional settings under supervision. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

LIT 499 SENIOR PROJECT/THESIS (V 1-15)

Pre-Fall 2009 UMW course: ENG 498 Senior Project/Thesis
An individual project or thesis closely associated with the student's academic program and career goals. Student works with one selected faculty member. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

M—Mathematics
[New CCN rubric effective Fall 2009]

NOTE: Credit for *M 090* and *MATH 007/M 095* is not applicable to graduation; credit may not count as part of load for financial aid purposes; credit may not count as part of load for eligibility purposes. Grades, honor/grade points, or credits for *M 090* and *MATH 007/M 095* are not used in calculation of the GPA.

M 090 INTRODUCTORY ALGEBRA (4)

This course focuses on the interactions of the basic operations of mathematics. Additionally, the course teaches students effective study and classroom skills with regard to mathematics. Students learn and use the rigorous definitions of the operations, solving linear equations, graphing lines, equations of lines, ratios, proportions, and exponents. Note: Students who receive grade D or lower in *M 095* are required to take this course. (fall/spring)

M 095 INTERMEDIATE ALGEBRA (4)

Pre-Fall 2009 UMW course: MATH 007 Algebra
This course is a rigorous study of the basic operations of mathematics. Students will learn and apply the operations by solving and manipulating algebraic problems. Topics include linear equations, quadratic equations, absolute values, inequalities, exponents, logarithms, and rational functions. Prereq: minimum 18 score on math portion of the ACT, or minimum 440 score on math portion of the SAT, or grade C- or higher in *M 090*; or c/i. Note: Students who receive grade D or lower in this course are required to complete and pass *M 090* before taking *M 095* again. (fall/spring)

All mathematics courses beyond this level satisfy the Mathematics General Education requirement.

Math Proficiency Standards (see page 7)

Prerequisite for all 100-level Math courses is one of the following:

- MATH 007/M 095 grade C- or higher
- C- or higher in any MATH 100-level (or higher) course
- score of 22 or higher on the Math section of the ACT
- score of 520 or higher on the Math section of the SAT
- consent of instructor (c/i)
- Students may be deemed proficient if they complete a Rigorous High School core including four years of mathematics

M 103 GAME THEORY (4)

Pre-Fall 2009 UMW course: MATH 103 Game Theory
Game theory studies how individuals make decisions when their actions affect each other. Topics to be covered in this course may include dominance, Nash equilibrium, mixed-strategy Nash equilibrium, the Prisoner's dilemma, oligopolies, auctions, bargaining, cooperative games, and evolutionary game theory. Upon successful completion of this course, the student should be able to formulate and

analyze game-theoretic models for various economic, political, social, and biological phenomena. Prereq: MATH 007 (*M 095*) grade C- or higher, or meet one Math Proficiency standard above; or c/i.

M 106 LINEAR MATHEMATICS (4)

Pre-Fall 2009 UMW course: MATH 102 Linear Mathematics
This course is an introductory course in linear algebra. Upon successful completion of this course, the student should be familiar with solving systems of linear equations, matrix algebra, linear programming,

Markov processes, and Gauss-Jordan elimination. The student will also be introduced to appropriate technology used in solving linear algebra problems. Prereq: MATH 007 (*M 095*) grade C- or higher, or meet one Math Proficiency standard above; or c/i.

M 107 INTRODUCTORY GEOMETRY (4)

Pre-Fall 2009 UMW course: MATH 106 Geometry

Upon successful completion of this course, the student should be familiar with introductory geometry, geometric constructions, congruence, similarity, measurement, and coordinate geometry. The student should exhibit competence in using congruence and similarity to solve geometric problems, completing geometric constructions and introductory proofs, and the ability to communicate using mathematical terminology. Prereq: MATH 007 (*M 095*) grade C- or higher, or meet one Math Proficiency standard above; or c/i. (fall/spring)

Most mathematics courses beyond this level make use of an appropriate graphing calculator. Students should contact the Department of Mathematics at 683-7274 for information regarding the recommended calculator.

M 112 TRIGONOMETRY & COMPLEX NUMBERS (4)

Pre-Fall 2009 UMW course: MATH 112 Trigonometry & Complex Numbers

The emphasis of this course is a broad study of trigonometric functions. Triangular trigonometry, complex variables, polar-coordinates, and other applications of trigonometry are also introduced. Prereq: MATH 007 (*M 095*) grade C- or higher, or meet one Math Proficiency standard above; or c/i. (fall)

M 119 INTRODUCTION TO NUMBER THEORY (4)

Pre-Fall 2009 UMW course: MATH 105 Number Theory

In this course, the student will study the development and properties of number systems. This includes the study of the real numbers and algorithms that use them. It also includes the study of number sequences and number patterns. Prereq: MATH 007 (*M 095*) grade C- or higher, or meet one Math Proficiency standard above; or c/i. (fall/spring)

M 121 COLLEGE ALGEBRA 4)

Pre-Fall 2010 UMW course: MATH 111 College Algebra

This course explores a wide variety of functions, including polynomial, rational, exponential, and logarithmic functions. Students will be able to manipulate complicated expressions, understand the relationship between algebra and graphs, and apply their skills to a variety of applications. Prereq: MATH 007 (*M 095*) grade C- or higher, or meet one Math Proficiency standard above; or c/i. (fall/spring)

M 125 MORPHOMETRICS (4)

Pre-Fall 2009 UMW course: MATH 107 Morphometrics

Morphometrics is the mathematical study of shape. This course will investigate how shapes from the natural world are represented mathematically. Upon successful completion of this course, the student should be able to use algebraic functions to model form, use spline techniques to establish deformation grids between forms, use fractal geometry to model self-similar forms, and describe the shape of the universe. The student will be introduced to appropriate technology used in modeling shape. Prereq: MATH 007 (*M 095*) grade C- or higher, or meet one Math Proficiency standard above; or c/i. (spring/odd-numbered years)

M 127 TOPICS IN MATHEMATICS (4)

Pre-Fall 2009 UMW course: MATH 109 Topics in Mathematics

Introductory mathematical topics appropriate for students with a background in intermediate algebra. This course will investigate an instructor-selected area of mathematics that involves reflective-analytic, mathematical reasoning, and computational components. Prereq: MATH 007 (*M 095*) grade C- or higher, or meet one Math Proficiency standard above; or c/i.

M 128 LOGIC (4)

Pre-Fall 2009 UMW course: MATH 101 Logic

Upon successful completion of this introductory course in logic, students will be able to identify various types of arguments and ways of analyzing and evaluating these arguments. Emphasis will be placed upon using the techniques of modern symbolic logic as a means of analyzing and evaluating formal arguments. In using these techniques, students will develop their abilities to analyze and resolve complex deductive problems. Among the topics typically covered are tautologies, fallacies, syllogisms, causal hypotheses, logic diagrams, truth tables, argument analysis, truth-functional reasoning, and applications to logic circuits. Prereq: MATH 007 (*M 095*) grade C- or higher, or meet one Math Proficiency standard above; or c/i.

M 171 CALCULUS I (4)

Pre-Fall 2009 UMW course: MATH 201 Calculus I

This is the first course in the calculus sequence. This course will provide the student with an introduction to differential and integral calculus. The student will investigate functions in one variable geometrically, numerically, and algebraically. Topics are introduced by the investigation of practical problems and include limits, continuity, derivatives, antiderivatives, and the Fundamental Theorem of Calculus. Prereq: MATH 112 (*M 112*) grade C- or higher, or evidence of grade C- or higher in high school trigonometry; or c/i. (fall/spring)

M 172 CALCULUS II (4)

Pre-Fall 2009 UMW course: MATH 202 Calculus II

This is the second course in the calculus sequence. This course will provide the student with a more comprehensive knowledge of differential and integral calculus. As a continuation of MATH 201/*M 171*, the student will investigate practical problems geometrically, numerically, and algebraically. Several different integration techniques will be introduced and applied. The student will also encounter elementary differential equations through applications, as well as continue the study of limits and convergence via improper integrals and Taylor series. Prereq: MATH 201 (*M 171*) grade B- or higher; or c/i. (spring)

M 210 INTRODUCTION TO MATHEMATICAL SOFTWARE (4)

Pre-Fall 2009 UMW course: MATH 210 Computer Mathematics

This course is designed to provide students with basic computer skills that are applicable to the mathematical sciences. This will include programming in matrix-vector based languages such as MATLAB or OCTAVE, symbolic languages such as Mathematica or Maple, and typesetting mathematical writing with the aid of LATEX2E. Prereq: Any 100-400 level mathematics course grade B- or higher; or c/i.

M 221 INTRODUCTION TO LINEAR ALGEBRA (4)

Pre-Fall 2009 UMW course: MATH 260 Linear Algebra

Upon successful completion of this course, the student should be familiar with the vocabulary and notation of matrix and vector algebra and should exhibit competence in computing (algebraically and with the aid of computer software) solutions to systems of linear equations, determinants, eigenvalues, and eigenvectors. The student should also become acquainted with linear transformations, abstract vector spaces, and matrix factorizations. Topics will be motivated and will culminate with relative applications. Prereq: MATH 201 (*M 171*) and MATH 210 (*M 210*) grade B- or higher; or c/i. (fall/even-numbered years)

M 273 MULTIVARIABLE CALCULUS (4)

Pre-Fall 2009 UMW course: MATH 203 Calculus III

This third course in the calculus sequence emphasizes multivariate calculus. Upon successful completion of this course, the student should be familiar with polar, spherical, and cylindrical coordinates; parametric curves; vectors in the plane and space; differentiation and integration of functions of several variables; and applications. The student should exhibit competence in using differentiation and integration to solve problems of motion and force and in implementing different coordinate systems. The student will demonstrate the ability to reason, visualize in space, implement appropriate technologies, and communicate using

mathematical terminology. Prereq: MATH 202 (*M 172*) grade B- or higher; or c/i. (spring)

M 274 INTRODUCTION TO DIFFERENTIAL EQUATIONS (4)

Pre-Fall 2009 UMW course: MATH 311 Ordinary Differential Equations

This course is designed to introduce students to differential equations and how they are used to model problems in engineering and science (e.g., radioactive decay, population models, mechanical and electrical vibrations). Students will gain proficiency in analyzing and solving first- and second-order differential equations and differential systems using analytical, numerical, and qualitative methods. Prereq: MATH 202 (*M 172*) and MATH 210 (*M 210*) grade B- or higher; or c/i.

M 290 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

M 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: MATH 290 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (on demand)

M 329 MODERN GEOMETRY (4)

Pre-Fall 2009 UMW course: MATH 341 College Geometry
Upon successful completion of this course, the student should be familiar with deductive and inductive reasoning and with the axioms and theorems of Euclidean and non-Euclidean geometries and the historical context in which they came about. The student should exhibit competence in performing geometric constructions both by hand and with the aid of computer software, in proving geometric theorems in both Euclidean and non-Euclidean geometries, and in solving a variety of problems based upon the geometric properties studied. Prereq: Sophomore standing; or c/i. (fall)

M 341 METHODS & MATERIALS IN MATHEMATICS (4)

Pre-Fall 2009 UMW course: MATH 351 Methods & Materials in Mathematics
Effective 2011-12: *EDU 497M Methods: 5-12 Mathematics*

M 343 FOUNDATIONS OF MATHEMATICS (4)

Pre-Fall 2009 UMW course: MATH 343 Foundations of Mathematics
Upon successful completion of this course, the student should be familiar with techniques of writing mathematical proofs using direct, contrapositive, contradiction, and induction methods. In addition, the student will be introduced to some fundamental ideas used throughout mathematics including logic, set theory, number theory, complex numbers, function theory, group theory, and the historical contexts in which these concepts came about. Prereq: Sophomore standing; or c/i. (fall)

M 414 DETERMINISTIC MODELS (4)

Pre-Fall 2009 UMW course: MATH 401 Deterministic Modeling
An introduction to discrete and continuous time models that arise from the study of dynamical systems designed to model phenomena that occur in nature. Difference equation, matrix equation, and ordinary differential equation models will be formulated for a broad range of applications and analyzed both analytically and numerically. Prereq: MATH 202 (*M 172*) and MATH 210 (*M 210*) grade B- or higher; or c/i. (spring/odd-numbered years)

M 431 ABSTRACT ALGEBRA I (4)

Pre-Fall 2009 UMW course: MATH 443 Abstract Algebra
An introduction to the fundamental algebraic structures such as groups, rings, and fields. Prereq: MATH 343 (*M 343*) grade B- or higher; or c/i. (fall)

M 435 ADVANCED CALCULUS I (4)

Pre-Fall 2009 UMW course: MATH 441 Advanced Calculus
An introduction to the fundamental concepts in calculus such as limits, continuity, differentiability, convergence, sequences, series, and integrability. Prereq: MATH 202 (*M 172*) and MATH 343 (*M 343*) grade B- or higher; or c/i.

M 444 ADVANCED NUMBER THEORY (4)

Pre-Fall 2009 UMW course: MATH 444 Advanced Number Theory
An introduction to the principal ideas of number theory such as divisibility, congruencies, linear Diophantine equations, Fermat's Theorem, Euler's Theorem, Pythagorean Triples, and the distribution of primes. Prereq: MATH 343 (*M 343*) grade B- or higher; or c/i.

M 472 INTRODUCTION TO COMPLEX ANALYSIS (4)

Pre-Fall 2009 UMW course: MATH 442 Complex Variables
An introduction to topics in complex variables such as functions, limits, derivatives, integrals, the Cauchy-Riemann conditions, series representation of functions, the Cauchy Integral formula, and elementary conformal mappings. Prereq: MATH 203 (*M 273*) and MATH 343 (*M 343*) grade B- or higher; or c/i.

M 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

M 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: MATH 490 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (on demand)

M 494 SEMINAR/WORKSHOP (4)

This course is a complement to the other 400-level mathematics courses in the UMW Catalog. It is intended to be an upper-level seminar in which students can practice authentic research in mathematics. When this course is offered, the topic will typically relate to a field of expertise or great interest of the instructor. The topic chosen will not significantly overlap that of one of the existing 400-level math courses at UMW. Prereq: MATH 343 (*M 343*) grade B- or higher, and other (topic dependent) courses to be set by the instructor; or c/i. (fall)

M 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2009 UMW course: MATH 400 Cooperative Education/Internship

This is intended as a culminating course for students who wish to incorporate an appropriate work experience within their academic education. The student will actively participate in a mathematically-related work experience that should provide her/him with an understanding of how mathematics is applied in industry. Assessment will be by both written and oral consultation with the student's academic advisor. Prereq: Senior standing, c/i, c/pc, and c/vc.

M 499 SENIOR PROJECT/THESIS (V 1-15)

Pre-Fall 2009 UMW course: MATH 498 Senior Project/Thesis
This is intended as a culminating course for students who wish to incorporate an individually-pursued thesis topic within their academic education. The student will complete an appropriate thesis in conjunction with his/her advisor. Assessment will be based on both a written document and oral presentation upon completion of the thesis. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

MART—Media Arts

[New CCN rubric effective Fall 2012]

MART 226 INTRODUCTION TO DIGITAL MEDIA 2-D (4)

Pre-Fall 2011 UMW course: ART 225 Digital Media [2-D]

This studio course introduces the expressive, conceptual, and communication possibilities of digital technology as an artistic medium. This course also examines art as an expression of culture and historical context and includes writing exercises in aesthetics and art criticism. (spring)

MART 326 INTERMEDIATE DIGITAL MEDIA 2-D (4)

Pre-Fall 2011 UMW course: ART 325 Digital Media 2-D

This intermediate studio course builds upon the technical and conceptual framework of ART 225/MART 226, with added emphasis upon personal exploration and expression. Prereq: ART 225 (*MART 226*).

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MATH—Mathematics

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]

NOTE: Credit for *M 090* and *MATH 007/M 095* is not applicable to graduation; credit may not count as part of load for financial aid purposes; credit may not count as part of load for eligibility purposes. Grades, honor/grade points, or credits for *M 090* and *MATH 007/M 095* are not used in calculation of the GPA.

MATH 007 ALGEBRA (4)

See *M 095 Intermediate Algebra*

All mathematics courses beyond this level satisfy the Mathematics General Education requirement.

Math Proficiency Standards (see page 7)

Prerequisite for all 100-level Math courses is one of the following:

- *MATH 007/M 095* grade C- or higher
- C- or higher in any MATH 100-level (or higher) course
- score of 22 or higher on the Math section of the ACT
- score of 520 or higher on the Math section of the SAT
- consent of instructor (c/i)
- Students may be deemed proficient if they complete a Rigorous High School core including four years of mathematics

MATH 101 LOGIC (4)

See *M 128 Logic*

MATH 102 LINEAR MATHEMATICS (4)

See *M 106 Linear Mathematics*

MATH 103 GAME THEORY (4)

See *M 103 Game Theory*

MATH 105 NUMBER THEORY (4)

See *M 119 Introduction to Number Theory*

MATH 106 GEOMETRY (4)

See *M 107 Introductory Geometry*

MATH 107 MORPHOMETRICS (4)

See *M 125 Morphometrics*

MATH 109 TOPICS IN MATHEMATICS (4)

See *M 127 Topics in Mathematics*

Most mathematics courses beyond this level make use of an appropriate graphing calculator. Students should contact the Department of Mathematics at 683-7274 for information regarding the recommended calculator.

MATH 112 TRIGONOMETRY & COMPLEX NUMBERS (4)

See *M 112 Trigonometry & Complex Numbers*

MATH 131 PROBABILITY (4)

See *STAT 121 Probability*

MATH 201 CALCULUS I (4)

See *M 171 Calculus I*

MATH 202 CALCULUS II (4)

See *M 172 Calculus II*

MATH 203 CALCULUS III (4)

See *M 273 Multivariable Calculus*

MATH 210 COMPUTER MATHEMATICS (4)

See *M 210 Introduction to Mathematical Software*

MATH 219 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

MATH 232 STATISTICS (4)

See *STAT 217 Intermediate Statistical Concepts*

MATH/BIO 233 BIOSTATISTICS (4)

See *STAT 233 Biostatistics*

MATH 260 LINEAR ALGEBRA (4)

See *M 221 Introduction to Linear Algebra*

MATH 290 INDEPENDENT STUDY (V 1-4)

See *M 292 Independent Study*

MATH 311 ORDINARY DIFFERENTIAL EQUATIONS (4)

See *M 274 Introduction to Differential Equations*

MATH/BIO 331 BIOINFORMATICS (4)

See *STAT 331 Bioinformatic; BIOB 487 Bioinformaticss*

MATH/BIO 332 ADVANCED FIELD STATISTICS (4)

See STAT 335 Advanced Field Statistics

MATH 333 MATHEMATICAL STATISTICS (4)

See STAT 422 Mathematical Statistics

MATH 341 COLLEGE GEOMETRY (4)

See M 329 Modern Geometry

MATH 343 FOUNDATIONS OF MATHEMATICS (4)

See M 343 Foundations of Mathematics

MATH 351 METHODS & MATERIALS IN MATHEMATICS (4)

See EDU 497M Methods: 5-12 Mathematics

MATH 400 COOPERATIVE EDUCATION/INTERNSHIP (V 4-12) R

See M 498 Internship/Cooperative Education

MATH 401 DETERMINISTIC MODELING (4)

See M 414 Deterministic Models

MATH 419 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc.
(on demand)

MATH 433 STOCHASTIC MODELING (4)

See STAT 433 Stochastic Modeling

MATH 441 ADVANCED CALCULUS (4)

See M 435 Advanced Calculus I

MATH 442 COMPLEX VARIABLES (4)

See M 472 Introduction to Complex Analysis

MATH 443 ABSTRACT ALGEBRA (4)

See M 431 Abstract Algebra I

MATH 444 ADVANCED NUMBER THEORY (4)

See M 444 Advanced Number Theory

MATH 490 INDEPENDENT STUDY (V 1-4)

See M 492 Independent Study

MATH 498 SENIOR PROJECT/THESIS (V 4-12) R

See M 499 Senior Project/Thesis

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

MCH—Machining & Manufacturing Technology

[New CCN rubric effective Fall 2012]

MCH 200 MACHINING (3)

Pre-Fall 2012 UMW course: IT 241 Machining/IT 241L Machining Lab

Students in this course will be introduced to machining principles and metal production systems used for the metals fabrication industry. Students will fabricate projects using the engine lathe, vertical milling machine, drill press, as well as other metal working machinery and devices. Skills using micrometers, dial indicators, and dial calipers will be developed. \$50 Course Fee. Prereq: IT 130 or IT 135 (*DDSN 114*). (fall)

MCH 275 WOOD TECHNOLOGY IN INDUSTRY (3)

Pre-Fall 2013 UMW course: IT 245 Wood Technology in Industry
Supervised field trip for observation and study of organizations, facilities, and processes in the various industries within the wood industry. Overview of the industrial environment, with an emphasis on the safety and health practices within the woodworking industry. Topics covered include OSHA requirements, workplace safety factors (unsafe acts and hazardous conditions), hearing conservation, electrical safety, hazard communication,

and fire protection. Proper methods of mechanically guarding woodworking machinery are emphasized. \$25 Course Fee.

MCH 279 COMPUTER-AIDED MANUFACTURING: METALS (3)

Pre-Fall 2013 UMW course: IT 260 Computer-Aided Manufacturing: Metals

This course is delivered in a lab-based setting. This class covers the use of CAD/CAM/CNC machining to manufacture various metal products. Both Computer Numerical Control (CNC) of lathes and mills will be taught. Students will have opportunities to machine a wide variety of materials and gain other practice in CAD/CAM operations. \$50 Course Fee. Prereq: IT 241 (*MCH 200*). (spring)

MCH 375 COMPUTER-AIDED MANUFACTURING (4)

Pre-Fall 2013 UMW course: IT 345 Computer-Aided Manufacturing
Overview of computerized applications in the secondary material processing industry. Advanced technologies for machining of material including CNC routing, point-to-point machining centers, molding, and laser cutting. Practice in CAD/CAM operations. \$50 Course Fee.

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

MUS—Music

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]

MUS 101 MUSIC FUNDAMENTALS/PIANO (2/4)

See MUSI 103 Fundamentals of Musical Creation

MUS 113 INSTRUMENTAL ENSEMBLE (1) R

Music for different combinations of instruments to enrich the experience of qualified performers. Prereq: c/i. (fall/spring)

MUS 114 ORCHESTRAL INSTRUMENTS (1) R

Private lessons on orchestral instruments. Prereq: c/i. (fall/spring)

MUS 115 BEGINNING GUITAR (2)

See MUSI 160 Beginning Guitar

MUS 116 CONCERT BAND (1) R

See MUSI 114 Band: UMW Concert Band

MUS 117 JAZZ ENSEMBLE (1) R

See MUSI 131 Jazz Ensemble I: UMW

MUS 131 MUSIC THEORY I (2)

See MUSI 107 Music Theory I & Aural Perception

MUS 132 MUSIC THEORY II (2)

See MUSI 109 Music Theory II & Aural Perception

MUS 141 APPLIED MUSICIANSHIP I (2)

See *MUSI 107 Music Theory I & Aural Perception*

MUS 142 APPLIED MUSICIANSHIP II (2)

See *MUSI 109 Music Theory II & Aural Perception*

MUS 143 HISTORY OF ROCK & ROLL (4)

This course presents the roots, components, and development of Rock & Roll. This course will also focus upon the significant performing artists and groups from historic eras and explore sociological, economic, and cultural factors that shaped the Rock & Roll art form. This course includes lecture, audio/visual, and live performances. Activities include research projects/presentations. (fall/even-numbered years)

MUS 153 PIANO (V 1-2) R

See *MUSI 195 Applied Music I*

MUS 162 VOICE IN CLASS (4)

See *MUSI 152 Voice in Class*

MUS 163 VOICE (V 1-2) R

See *MUSI 150 Beginning Voice*

MUS 165 VOCAL ENSEMBLE (1) R

See *MUSI 147 Choral Ensemble: UMW*

MUS 187 PERFORMANCE SEMINAR (1) R-8 credits maximum

See *MUSI 187 Performance Study*

MUS 202 INTRODUCTION TO MUSIC LITERATURE (4) (CD)

See *MUSI 202 Introduction to Music Literature*

MUS 209 STRING METHODS (1)

A laboratory-oriented course in which students develop elementary level performance skills on orchestral stringed instruments and demonstrate appropriate pedagogical techniques for teaching stringed instruments in various venues, including the public schools. Prereq: c/i. (fall/even-numbered years)

MUS 212 WOODWIND METHODS (1)

See *MUSE 133 Techniques: Woodwinds*

MUS 213 BRASS METHODS (1)

A laboratory-oriented course in which students develop elementary level performance skills on the basic brass instruments and demonstrate appropriate pedagogical techniques for teaching brass instruments in various venues, including the public schools. Prereq: c/i. (spring/odd-numbered years)

MUS 214 PERCUSSION METHODS (1)

See *MUSE 134 Techniques: Percussion*

MUS 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

MUS 220 MUSIC THEATRE PRACTICUM (1)

Study of musical theatre and operetta literature suitable for school use as well as procedures for school production; experience in acting and assisting with the technical duties of music productions. Offered only in conjunction with musical stage productions. Prereq: c/i.

MUS 233 MUSIC THEORY & EAR TRAINING III (4)

Continuation of MUS 132/142 (*MUSI 109*) with emphasis on more complex harmonic progressions and formal analysis. Students will continue to develop musical reading and writing skills through sight-singing, diction, and keyboarding, as in Applied Musicianship. Prereq: MUS 132/142 (*MUSI 109*); or c/i. (fall/odd-numbered years)

MUS 290 INDEPENDENT STUDY (V 1-4)

See *MUSI 292 Independent Study*

MUS 313 INSTRUMENTAL ENSEMBLE (1) R

Music for different combinations of instruments to enrich the experience of qualified performers. Prereq: c/i. (fall/spring)

MUS 314 ORCHESTRAL INSTRUMENTS (V 1-2) R

Private lessons on orchestral wind, percussion, or stringed instruments. Prereq: c/i. (fall/spring)

MUS 316 CONCERT BAND (1) R

See *MUSI 314 Band III: UMW Concert Band*

MUS 317 JAZZ ENSEMBLE (1) R

See *MUSI 331 Jazz Ensemble II: UMW*

MUS 351 METHODS & MATERIALS IN MUSIC (3)

See *MUSE 497 Methods: Secondary School Music Programs*

MUS 353 PIANO (V 1-2) R

See *MUSI 395 Applied Music III*

MUS 363 VOICE (V 1-2) R

See *MUSI 363 Voice*

MUS 365 VOCAL ENSEMBLE (1) R

See *MUSI 312 Choir III: UMW*

MUS 372 CONDUCTING (3)

Students will develop knowledge and skills to conduct instrumental and choral ensembles in public schools and in other amateur or professional settings. Score reading, score analysis, and rehearsal techniques will be refined to enhance accurate and expressive music performance. Prereq: MUS 132 (*MUSI 109*); or c/i. (fall/odd-numbered years)

MUS 374 ARRANGING (4)

Students will study instrument, voice, and ensemble characteristics, traditional and technological notation, and music vocabulary. In addition, students will develop listening, score study, transcribing, arranging, orchestrating, and composing skills for instrumental and vocal solos and ensembles. Prereq: MUS 132 (*MUSI 109*).

MUS 378 SECONDARY SCHOOL MUSIC TEACHING PRACTICUM (1) R

See *MUSE 497 Methods: Secondary School Music Programs*

MUS 387 PERFORMANCE SEMINAR (1) R-8 credits maximum

See *MUSI 387 Performance Study*

MUS 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *MUSI 498 Internship/Cooperative Education*

MUS 409 MUSIC SEMINAR (V 1-3) R

Selected topics of interest. Prereq: c/i and c/pc. (on demand)

MUS 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

MUS 421 SENIOR RECITAL (1)

Music program students are encouraged to present a recital during the senior year. Students must be registered for applied private instruction and the applied music instructor will have the final authority to make all decisions regarding program content and student readiness for recital.

MUS 461 MUSIC HISTORY (4)

In this course, students will investigate western civilization musical traditions from late antiquity to the present day. Musical styles, genres, composers, key works, and social conventions will be examined and discussed to enhance understanding of the evolution of music and its

relationship to other art forms and to the Western culture. Prereq: MUS 131 (*MUSI 107*) and MUS 202 (*MUSI 202*).

MUS 471 MUSIC EDUCATION SEMINAR (2)

Music education research. Term paper addressing a problem or issue current to the profession, participation in and assistance in leading seminar discussions, attempt to solve problems or shed light on issues

in music education through the above requirements. Prereq: In Music Certification program and c/i, 4th year or Senior status with significant portion of the undergraduate credits completed. (spring)

MUS 490 INDEPENDENT STUDY (V 1-4)

See *MUSI 492 Independent Study*

MUS 498 SENIOR PROJECT/THESIS (V 1-15)

See *MUSI 499 Senior Project/Thesis*

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

MUSE—Music: Education ***(New CCN rubric effective Fall 2010)***

MUSE 133 TECHNIQUES: WOODWINDS (1)

Pre-Fall 2010 UMW course: MUS 212 Woodwind Methods

A laboratory-oriented course in which students develop elementary level performance skills on the basic woodwind instruments and demonstrate appropriate pedagogical techniques for teaching woodwind instruments in various venues, including the public schools. Prereq: c/i. (spring/even-numbered years)

MUSE 134 TECHNIQUES: PERCUSSION (1)

Pre-Fall 2010 UMW course: MUS 214 Percussion Methods

A laboratory-oriented course in which students develop elementary level performance skills on the standard percussion instruments and demonstrate appropriate pedagogical techniques for teaching

percussion in various venues, including the public schools. Prereq: c/i. (fall/odd-numbered years)

MUSE 497 METHODS: SECONDARY SCHOOL MUSIC PROGRAMS (4)

Pre-Fall 2010 UMW courses: MUS 351 Methods & Materials in Music, and MUS 378 Secondary School Music Teaching Practicum

This course is designed to present the philosophies, history, and methods of teaching and managing music education at the secondary level. Students will gain experience in planning, evaluating, and performing tasks required for successful implementation of a secondary music education program. Will provide opportunities to observe, teach, and/or conduct research in conjunction with secondary school music programs. Prereq: Admission to TEP and MUS 132 (*MUSI 109*). (spring/odd-numbered years)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

MUSI—General Music ***(New CCN rubric effective Fall 2010)***

MUSI 103 FUNDAMENTALS OF MUSICAL CREATION (4)

Pre-Fall 2010 UMW course: MUS 101 Music Fundamentals/Piano

Students are introduced to the universal elements of music (such as rhythm, melody, harmony) and Western notation of music. They demonstrate basic music literacy skills through creative work such as small compositions, singing, playing instruments, and through listening activities and exams. They study some history of music and learn about a variety of forms, functions, styles, instruments, composers, and performers from many cultures, including traditional and contemporary music of Montana Native Americans. Students examine global issues such as censorship, the commercialization of music, and the education and training of musicians. (fall/spring)

MUSI 107 MUSIC THEORY I & AURAL PERCEPTION (4)

Pre-Fall 2010 UMW courses: MUS 131 Music Theory I, and MUS 141 Applied Musicianship I

This course will serve as an introduction to functional harmony and analysis that includes part-writing in two, three, and four parts. Students will develop aural skills through sight-singing, diction, and keyboard harmony. Student composition projects and presentations will synthesize course material and promote knowledge and understanding of subject. Prereq: MUS 101 (*MUSI 103*); or c/i. (fall/even-numbered years)

MUSI 109 MUSIC THEORY II & AURAL PERCEPTION (4)

Pre-Fall 2010 UMW courses: MUS 132 Music Theory II, and MUS 142 Applied Musicianship II

Continuation of study from MUS 132/142 (*MUSI 107*), with emphasis on more complex harmonic progressions, sight-singing, diction, and keyboard harmony. Student composition projects and presentations will synthesize course material and promote knowledge and understanding of subject. Prereq: MUS 131 (*MUSI 107*); or c/i. (spring/odd-numbered years)

MUSI 114 BAND: UMW CONCERT BAND (1) R

Pre-Fall 2010 UMW course: MUS 116 Concert Band

Students will experience instrumental ensemble participation at the highest level possible, increase reading and playing skills, prepare and perform a minimum of two concerts per semester, and research a wide variety of styles and genres in band literature. At this level, students will provide oral and written presentation of research findings.

MUSI 131 JAZZ ENSEMBLE I: UMW (1) R

Pre-Fall 2010 UMW course: MUS 117 Jazz Ensemble

Prereq: c/i.

MUSI 147 CHORAL ENSEMBLE: UMW (1) R

Pre-Fall 2010 UMW course: MUS 165 Vocal Ensemble

Students and community members will experience choir participation at the highest level possible, increase music reading and singing skills, prepare and perform one to two concerts per semester, and research a wide variety of styles and genres in choral literature. Students will provide oral and written presentations of research findings. Prereq: c/i.

MUSI 150 BEGINNING VOICE (V 1-2) R

Pre-Fall 2010 UMW course: MUS 163 Voice

Private lessons for advanced students only. Beginning students should enroll in a vocal group. Prereq: c/i. (fall/spring)

MUSI 152 VOICE IN CLASS (4)

Pre-Fall 2010 UMW course: MUS 162 Voice in Class

This course will introduce students to fundamentals of tone production; breathing, resonance, vowel formation, and posture. This course will also focus upon vocal techniques and skills relating to general music classes and choral ensembles, such as producing crescendo, diminuendo, legato, flexibility, velocity, and piano techniques relevant to choral rehearsals.

Additionally, students will research, report, and write in the areas of music history and music of diverse cultures. (spring/even-numbered years)

MUSI 160 BEGINNING GUITAR (2)

Pre-Fall 2010 UMW course: MUS 115 Beginning Guitar
Basic techniques of guitar; development of fundamental skills for performance and instruction. Prereq: c/i. (spring/even-numbered years)

MUSI 187 PERFORMANCE STUDY (1) R-8 credits maximum

Pre-Fall 2010 UMW course: MUS 187 Performance Seminar
Signature UMW vocal ensemble performing for both on- and off-campus special events and concerts. Intermediate to advanced singers selected by audition. May be repeated at upper division level for up to a total of 8 credits. Prereq: Audition and c/i. (fall/spring)

MUSI 195 APPLIED MUSIC I (V 1-2) R

Pre-Fall 2010 UMW course: MUS 153 Piano
Private lessons. Prereq: c/i.

MUSI 202 INTRODUCTION TO MUSIC LITERATURE (4) (CD)

Pre-Fall 2010 UMW course: MUS 202 Introduction to Music Literature
This is a music survey course that introduces students to the development and uses of music from antiquity to the present. The content includes both Western and non-Western music. Upon successful completion of the course, students will demonstrate through examination, written, and oral presentation knowledge and understanding of music of various styles, historical periods, composers, and performers. A strong listening component is included that embraces recorded and live music. Required for Secondary Education Music Minor and BA: Music Related Area. Note: This class may also be required in other BA Related Areas. (fall/odd-numbered years)

MUSI 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2010 UMW course: MUS 290 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

MUSI 312 CHOIR III: UMW (1) R

Pre-Fall 2010 UMW course: MUS 365 Vocal Ensemble
Students and community members will experience choir participation at the highest level possible, increase music reading and singing skills, prepare and perform one to two concerts per semester, and research a wide variety of styles and genres in choral literature. Students will provide oral and written presentations of research findings. Prereq: c/i.

MUSI 314 BAND III: UMW CONCERT BAND (1) R

Pre-Fall 2010 UMW course: MUS 316 Concert Band
Students will experience instrumental ensemble participation at the highest level possible, increase reading and playing skills, prepare and perform a minimum of two concerts per semester, and research a wide variety of styles and genres in band literature. At this level, students will present findings orally and in written form and will also prepare program notes and prepare community information and education announcements.

MUSI 331 JAZZ ENSEMBLE II: UMW (1) R

Pre-Fall 2010 UMW course: MUS 317 Jazz Ensemble
Prereq: c/i.

MUSI 363 VOICE (V 1-2) R

Pre-Fall 2010 UMW course: MUS 363 Voice
Private lessons for advanced students only. Prereq: c/i.

MUSI 387 PERFORMANCE STUDY (1) R-8 credits maximum

Pre-Fall 2010 UMW course: MUS 387 Performance Seminar
Signature UMW vocal ensemble performing for both on- and off-campus special events and concerts. Intermediate to advanced singers selected by audition. May be repeated at upper division level for up to a total of 8 credits. Prereq: Audition and c/i. (fall/spring)

MUSI 395 APPLIED MUSIC III (V 1-2) R

Pre-Fall 2010 UMW course: MUS 353 Piano
Private lessons for advanced students only. Prereq: c/i. (fall/spring)

MUSI 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2010 UMW course: MUS 490 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

MUSI 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2011 UMW course: MUS 400 Cooperative Education/Internship
Incorporation of an appropriate work experience into the student's academic preparation. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

MUSI 499 SENIOR PROJECT/THESIS (V 1-15)

Pre-Fall 2011 UMW course: MUS 498 Senior Project/Thesis
An individual project or thesis closely associated with the student's academic program and career goals. Project/thesis election subject to approval of project or thesis advisor. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

NRSM—Natural Resources Science & Management
[New CCN rubric effective Fall 2011]

NRSM 329 NATURAL RESOURCE ISSUES (4)

Pre-Fall 2011 UMW course: ENVS 329 Natural Resource Issues
Students in this course will be investigating current natural resource issues of the northwestern United States, as well as global natural resource issues. Students will explore the philosophical, ecological, economic, educational, cultural, and recreational values that affect human perceptions of these complex issues through a series of required readings, in-class discussions, and student projects/presentations. Guest speakers will be invited to share their views on particular issues and to answer questions from students. Students will also be exposed to national environmental policy and law. Course will emphasize hands-on activities and field trips. Evaluation will be based on classroom discussions, issue analysis reports, and papers on resource issues. Prereq: BIO 270 (*BIOE 250*), CHEM 131 (*CHMY 141*), and GEOL 150 (*GEO 103*); or c/i. (spring)

NRSM 372 OUR WILDLAND HERITAGE (4)

Pre-Fall 2011 UMW course: ENVS 372 Our Wildland Heritage
This course will trace the history of the public concern for the loss of natural lands (wilderness) and follow the development of the Wilderness Act of 1964 in the United States and its content, including limitations and opportunities. The course includes an inventory and profile of the public land use agencies (U.S. Forest Service, National Park Service, U.S. Fish & Wildlife Service, and Bureau of Land Management) as well as operation and ethics regarding private natural lands. Students will be able to complete an "Operating Plan" for public and private land use cooperatively with land managers, produce a "risk management" plan for land use leading groups, and produce equipment, meal, and personnel requirement lists for effective group land use. \$40 Course Fee.

NRSM 441 SUSTAINABLE RESOURCE MANAGEMENT (4)**Pre-Fall 2011 UMW course:** ENVS 441 Sustainable Resource Management

This course introduces students to ecosystem management principles and practices where interactions of social, economic, and ecological components of natural resources are addressed to attain true sustainability.

Students will explore and examine partnerships within communities, public agencies, and private sectors and essential technologies. This course is intended to serve as a catalyst for change in how natural resources are managed. Students will demonstrate their learning by successful completion of examinations and research papers, class discussions, and participation in a community-based project. Prereq: Junior/Senior standing. (spring/even-numbered years)

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NUTR—Nutrition

[New CCN rubric effective Fall 2011]

NUTR 411 NUTRITION FOR SPORTS & EXERCISE (4)**Pre-Fall 2011 UMW course:** HHP 364 Nutrition

This course examines the interaction between nutrition, exercise, and physical performance. Topics will include the biological, psychological, and sociological aspects of nutrition as it relates to exercise performance.

A focus will be on current research on nutritional needs in response to exercise including fluids, energy nutrient requirements and caloric distribution, supplementation, ergogenic aids, and pre/post event recommendations. Critical thinking skills will be enhanced by critiques of studies on sports nutrition-related topics and the evaluation of popular

sports nutrition claims. Students will develop strategies for communicating with the recreational and professional athlete, coach, and athletic trainer. Experiential learning will be used throughout the course with students applying their developing knowledge through case studies. Assessment will be conducted through formal testing and scholarly writing assignments as well as through individual and group experiential projects. Prereq: HHP 317 (*KIN 320*); or c/i. (fall/spring)

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PHIL—Philosophy

[For CCN equivalent courses, see appropriate rubric & course listed beneath individual courses]

PHIL 100 INTRODUCTION TO PHILOSOPHY (4) (CD)See *PHL 101 Introduction to Philosophy: Reason & Reality****PHIL 409 SEMINAR (4)***See *PHL 494 Seminar/Workshop****PHIL/ENVS 201 HISTORY & PHILOSOPHY OF SCIENCE (4)***See *PHL 241 History & Philosophy of Science****PHIL 419 DIRECTED STUDY (V 1-4)***

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i, c/pc, and c/vc. (on demand)

PHIL 219 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i, c/pc, and c/vc. (on demand)

PHIL 490 INDEPENDENT STUDY (V 1-4)See *PHL 492 Independent Study****PHIL 290 INDEPENDENT STUDY (V 1-4)***See *PHL 292 Independent Study****PHIL 498 SENIOR PROJECT/THESIS (V 1-15)***See *PHL 499 Senior Project/Thesis****PHIL 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)***See *PHL 498 Internship/Cooperative Education*

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

PHL—Philosophy

(New CCN rubric effective Fall 2010)

PHL 101 INTRODUCTION TO PHILOSOPHY: REASON & REALITY (4) (CD)**Pre-Fall 2010 UMW course:** PHIL 100 Introduction to Philosophy

A comprehensive survey of the history, methodology, problems, and major theories of Western philosophy. Comparisons will be made between this tradition and non-Western philosophy, with special emphasis on the philosophies of indigenous peoples. Students will demonstrate understanding of course content through in- and out-of-class writing assignments. Lecture and group discussions. (on campus/fall; internet/spring)

social science and philosophies of natural science on the one hand, and philosophies of history on the other. Primary emphasis will be placed on controversies over the philosophy of knowledge and the proper ethical role of the social scientist in society, including: positivism vs. post-positivism, agency vs. structure, and description vs. explanation vs. interpretation vs. critique. Students will demonstrate understanding of course content through writing assignments and oral debates. Lecture and group discussion. (fall/even-numbered years; spring/even-numbered years)

PHL 191 HISTORY & PHILOSOPHY OF THE SOCIAL SCIENCES (4)

Common course number to be determined

This course will introduce students to the historical development of the social sciences. Comparisons will be made between philosophies of

PHL 241 HISTORY & PHILOSOPHY OF SCIENCE (4)**Pre-Fall 2010 UMW course:** PHIL/ENVS 201 History & Philosophy of Science

This course will explore the history of science from its classical beginnings to modern times. The development of the process and

meaning of science will be emphasized. In particular, the philosophical basis of science as a way of knowing and understanding the world will be compared to other major areas of philosophy. Students will be engaged in group discussions and will make group and individual presentations. Students will also write several short papers and a research paper. Includes guest lecturers from the HPSS Department. \$10 Course Fee. (spring)

PHL 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2010 UMW course: PHIL 290 Independent Study
Directed research or study, with emphasis on experiential learning.
Prereq: PHIL 101 (*PHL 101*), c/i, c/pc, and c/vc. (on demand)

PHL 294 SEMINAR/WORKSHOP (V 1-4)

Selected topics of interest. (on demand)

PHL 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2010 UMW course: PHIL 490 Independent Study
Advanced directed research or study, with emphasis on experiential learning. Students are expected to critically evaluate, analyze, and synthesize selected topics through authorship of an extensive course

paper requiring independent research skills. Prereq: PHIL 101 (*PHL 101*), c/i, c/pc, and c/vc. (on demand)

PHL 494 SEMINAR/WORKSHOP (V 1-4)

Pre-Fall 2010 UMW course: PHIL 409 Seminar
Selected topics of interest. Prereq: Junior standing and c/i. (on demand)

PHL 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2010 UMW course: PHIL 400 Cooperative Education/ Internship
This option is intended to provide students with an opportunity to incorporate an appropriate extended field experience into their academic program. Prereq: Senior standing, c/i, c/pc, and c/vc. (on demand)

PHL 499 SENIOR PROJECT/THESIS (V 1-15)

Pre-Fall 2010 UMW course: PHIL 498 Senior Project/Thesis
This course is intended as a culminating experience for the social science degree. Working with a faculty advisor, the student will generate a product that demonstrates a competent, independent application of basic humanities research skills. Prereq: PHIL 101 (*PHL 101*), c/i, c/pc, and c/vc. (on demand)

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PHSX—Physics
(New CCN rubric effective Fall 2010)

A prerequisite for any course with a PHSX rubric is documented mathematical ability equivalent to MATH 007 Algebra/M 095 *Intermediate Algebra*. Ability can be demonstrated by appropriate college credit or ACT/SAT Math score.

PHSX 103 OUR PHYSICAL WORLD (4)

Pre-Fall 2010 UMW course: PHYS 101 Introduction to Physics
Elementary principles of mechanics, thermodynamics, electricity, and magnetism, with application to chemistry, earth, and life sciences. Lab included. \$10 Course Fee. Prereq: equivalent of MATH 007 (*M 095*) or higher.

PHSX 220 PHYSICS I (WITH CALCULUS) (4)

Pre-Fall 2010 UMW course: PHYS 233 General Physics
A calculus-based introduction to classical mechanics, including fluid and wave mechanics. Lab included. \$10 Course Fee. Prereq: MATH 201 (*M 171*). (fall)

PHSX 222 PHYSICS II (WITH CALCULUS) (4)

Pre-Fall 2010 UMW course: PHYS 234 General Physics
Electricity and magnetism. Lab included. \$10 Course Fee. Prereq: MATH 201 (*M 171*). (spring)

PHSX 224 PHYSICS III (4)

Pre-Fall 2010 UMW course: PHYS 235 General Physics III
A calculus-based course in thermal and modern physics including special relativity, an introduction to quantum physics with applications to atomic and molecular physics, and nuclear structure. During the semester, students will do some of the experiments that were critical to the development of modern physics. \$10 Course Fee. Prereq: MATH 201 (*M 171*).

PHSX 249 PHYSICAL METEOROLOGY (4)

Pre-Fall 2010 UMW course: PHYS 239 Physical Meteorology
An introduction to atmospheric phenomena using the laws of mechanics, electricity, and thermodynamics. Topics covered will be large-scale atmospheric circulation, stability and storm development, and climate change. Atmospheric data will be used to make different types of weather maps and weather predictions. \$40 Course Fee. Prereq: equivalent of MATH 007 (*M 095*) or higher. (fall/odd-numbered years)

PHSX 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2011 UMW course: PHYS 290 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

PHSX 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2011 UMW course: PHYS 490 Independent Study
Directed research or study on an individual basis. Prereq: c/i, c/pc, and c/vc. (fall/spring)

PHSX 498 INTERNSHIP/ COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2011 UMW course: PHYS 400 Cooperative Education/ Internship
Incorporation of an appropriate work experience into the student's academic preparation. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

PHSX 499 SENIOR PROJECT/THESIS (V 1-15)

Pre-Fall 2011 UMW course: PHYS 498 Senior Project/Thesis
An individual project or thesis closely associated with the student's academic program and career goals. Student works with one selected faculty member. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

Note: New Common Course Numbering system rubrics and courses are displayed *in italics* throughout this Catalog.

PHYS—Physics

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]

A prerequisite for any course with a PHYS rubric is documented mathematical ability equivalent to MATH 007 Algebra/M 095 Intermediate Algebra. Ability can be demonstrated by appropriate college credit or ACT/SAT Math score.

PHYS 101 INTRODUCTION TO PHYSICS (4)

See *PHSX 103 Our Physical World*

PHYS 219 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (fall/spring)

PHYS 233 GENERAL PHYSICS (4)

See *PHSX 220 Physics I (With Calculus)*

PHYS 234 GENERAL PHYSICS (4)

See *PHSX 222 Physics II (With Calculus)*

PHYS 235 GENERAL PHYSICS III (4)

See *PHSX 224 Physics III*

PHYS 239 PHYSICAL METEOROLOGY (4)

See *PHSX 249 Physical Meteorology*

PHYS 240 ASTRONOMY (4)

See *ASTR 110 Introduction to Astronomy*

PHYS 290 INDEPENDENT STUDY (V 1-4)

See *PHSX 292 Independent Study*

PHYS 340 TOPICS IN MODERN PHYSICS: MECHANICS (4)

Introduction to nonlinear mechanics and chaos with applications to population dynamics. Prereq: PHYS 235 (*PHSX 224*). (fall)

PHYS 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *PHSX 498 Internship/Cooperative Education*

PHYS 401 TOPICS IN MODERN PHYSICS: INTRODUCTION TO QUANTUM MECHANICS (4)

The development of wave mechanics and the solution of the Schrodinger equation with applications to atoms and molecules. Prereq: PHYS 235 (*PHSX 224*). (spring)

PHYS 419 DIRECTED STUDY (V 1-5)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

PHYS 490 INDEPENDENT STUDY (V 1-4)

See *PHSX 492 Independent Study*

PHYS 498 SENIOR PROJECT/THESIS (V 1-15)

See *PHSX 499 Senior Project/Thesis*

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POLS—Political Science

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]

POLS 121 AMERICAN NATIONAL & STATE GOVERNMENT (4) (CD)

See *ISSS 121 American National & State Government*

POLS/ECON/GEOG 201 THE WORLD ECONOMY (4)

See *ISSS 201 The World Economy*

POLS 219 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i and c/vc. (on demand)

POLS 220 INTRODUCTION TO RESEARCH METHODS (4)

See *ISSS 220 Quantitative Social Research Methods*

POLS/ANTH/HIST/SOC 221 QUANTITATIVE METHODS FOR SOCIAL SCIENCE (4)

See *ISSS 221 Quantitative Research Methods for Social Science*

POLS/ANTH/HIST/PSY/SOC 222 QUALITATIVE METHODS FOR SOCIAL SCIENCE (4)

See *ISSS 222 Qualitative Research Methods for Social Science*

POLS 250 POLITICAL THEORY (4) (CD)

See *PSCI 250 Introduction to Political Theory*

POLS 290 INDEPENDENT STUDY (V 1-4)

See *PSCI 292 Independent Study*

POLS 313 INTERNATIONAL RELATIONS & AMERICAN DIPLOMACY (4)

See *PSCI 331 International Relations Theory*

POLS 321 COMPARATIVE POLITICS (4)

See *ISSS 321 Comparative Politics*

POLS 341 POLITICAL ECONOMY (4)

See *ISSS 341 Political Economy*

POLS 360 LEGISLATIVE & PRESIDENTIAL POLITICS (4)

See *PSCI 347 U.S. Congress*

POLS 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *PSCI 498 Internship/Cooperative Education*

POLS 409 SEMINAR (4)

See *PSCI 494 Seminar/Workshop*

POLS 419 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i, c/pc, and c/vc. (on demand)

POLS/GEOG 441 WORLD RESOURCES (4)

See *ISSS 441 World Resources*

POLS 470 CONSTITUTIONAL LAW (4)

See *PSCI 471 American Constitutional Law*

POLS 490 INDEPENDENT STUDY (V 1-4)See *PSCI 492 Independent Study***POLS 498 SENIOR PROJECT/THESIS (V 1-15)**See *PSCI 499 Senior Project/Thesis***Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.**

PSCI—Political Science

[New CCN rubric effective Fall 2009]

PSCI 250 INTRODUCTION TO POLITICAL THEORY (4) (CD)**Pre-Fall 2009 UMW course:** POLS 250 Political Theory

Analysis of the various attempts within Western thought (from the ancient world to the present) 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 political knowledge, ethical subjectivity, and a just society. Critiques of this tradition from both Western and non-Western sources will be explored, with special emphasis given to the justice claims of indigenous peoples. Students will demonstrate understanding of course content through in- and out-of-class writing assignments. Lecture and group discussion. (spring)

PSCI 290 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

PSCI 292 INDEPENDENT STUDY (V 1-4)**Pre-Fall 2009 UMW course:** POLS 290 Independent Study

Directed research or study, with emphasis on experiential learning. Prereq: c/i, c/pc, and c/vc. (on demand)

PSCI 294 SEMINAR/WORKSHOP (V 1-4)

Selected topics of interest. Prereq: c/i. (spring)

PSCI 331 INTERNATIONAL RELATIONS THEORY (4)**Pre-Fall 2009 UMW course:** POLS 313 International Relations & American Diplomacy

An in-depth examination of the world political system, theories of international relations, and American foreign policy from independence to the present. Particular emphasis will be placed on America's role as a hegemon in the 21st century. Students will be evaluated based on class participation and written assignments requiring some individual research. Seminar. \$15 Course Fee. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; or ci. (Block 1 fall/even-numbered years)

PSCI 347 U.S. CONGRESS (4)**Pre-Fall 2009 UMW course:** POLS 360 Legislative & Presidential Politics

This course provides an in-depth look at how Congress really works and at the power and structure of the Executive branch. This will include discussion regarding how elections, media, lobbyists, and personal and professional relationships influence legislation and Congressional powers, as well as Congress's relationship with the President, and the President's ability to enact his agenda. Students will be evaluated on the basis of written assignments, examinations, and class discussion. Lecture and discussion. Prereq: POLS 121 (*ISSS 121*). (on demand)

PSCI 471 AMERICAN CONSTITUTIONAL LAW (4)**Pre-Fall 2009 UMW course:** POLS 470 Constitutional Law

Case studies of judicial policy-making by interpretation of the United States Constitution. Topics may include federalism and the separation of powers, civil rights and liberties, and/or comparison of non-U.S. legal systems. Students interested in pursuing further study or careers in law or law enforcement may be particularly interested in this course; however, it is designed to be useful to all students and citizens. Students will be asked to write case briefs and opinions, and make oral presentations of both their own and historical figures' constitutional thinking. \$15 Course Fee. Prereq: POLS 250 (*PSCI 250*), and either ANTH/HIST/POLS/PSY/SOC 220 or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; or c/i. (Block 3 fall/odd-numbered years)

PSCI 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

PSCI 492 INDEPENDENT STUDY (V 1-4)**Pre-Fall 2009 UMW course:** POLS 490 Independent Study

Advanced directed research or study, with emphasis on experiential learning. Students are expected to critically evaluate, analyze, and synthesize selected topics through authorship of an extensive course paper requiring independent research skills. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

PSCI 494 SEMINAR/WORKSHOP (V 1-4)**Pre-Fall 2009 UMW course:** POLS 409 Seminar

Selected topics of interest. Prereq: Junior standing and c/i. (Block 6 spring/odd-numbered years; Block 7 spring/even-numbered years)

PSCI 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)**Pre-Fall 2009 UMW course:** POLS 400 Cooperative Education/Internship

This option is intended to provide students with an opportunity to incorporate an appropriate extended field experience into their academic program. Field placement options to include all political settings. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

PSCI 499 SENIOR PROJECT/THESIS (V 1-15)**Pre-Fall 2009 UMW course:** POLS 498 Senior Project/Thesis

This course is intended as a culminating experience for the social science degree. Working with a faculty advisor, the student will generate a product that demonstrates a competent, independent application of basic political research. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

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PSY—Psychology

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]

PSY 100 GENERAL PSYCHOLOGY (4) (CD)See *PSYX 100 Introduction to Psychology****PSY 201 INTRODUCTION TO COGNITION (4) (CD)***See *PSYX 280 Fundamentals of Memory & Cognition*

PSY 203 COMPARATIVE PSYCHOLOGY (4)

See *PSYX 252 Fundamentals of Comparative Psychology*

PSY 219 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: c/i, c/pc, and c/vc. (on demand)

PSY 220 INTRODUCTION TO SOCIAL SCIENCE RESEARCH METHODS (4)

See *PSYX 203 Introduction to Social Science Research Methods*

PSY 221 QUANTITATIVE METHODS FOR SOCIAL SCIENCE (4)

See *PSYX 203 Introduction to Social Science Research Methods*

PSY 222 QUALITATIVE METHODS FOR SOCIAL SCIENCE (4)

See *ISSS 222 Qualitative Research Methods for Social Science*

PSY 265 INTRODUCTION TO MOTIVATION-THEORY & PRACTICE (4) (CD)

See *PSYX 366 Motivation-Theory & Practice*

PSY 275 DEVELOPMENTAL PSYCHOLOGY (4) (CD)

See *PSYX 230 Developmental Psychology*

PSY 290 INDEPENDENT STUDY (V 1-4)

See *PSYX 292 Independent Study*

PSY 300 QUANTITATIVE RESEARCH METHODS FOR THE BEHAVIORAL SCIENCES (4)

See *PSYX 322 Quantitative Research Methods for the Behavioral Sciences*

PSY 360 LEARNING & MEMORY (4)

See *PSYX 270 Fundamental Psychology of Learning*

PSY 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *PSYX 498 Internship/Cooperative Education*

PSY 409 SEMINAR (4)

See *PSYX 494 Seminar/Workshop*

PSY 419 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: PSY 300 (*PSYX 322*), c/i, c/pc, and c/vc. (on demand)

PSY 437 PSYCHOLOGY OF PERSONALITY (4)

See *PSYX 385 Psychology of Personality*

PSY 438 ABNORMAL PSYCHOLOGY (4)

See *PSYX 440 Abnormal Psychology & Research*

PSY 452 SOCIAL PSYCHOLOGY & GROUP DYNAMICS (4)

See *PSYX 360 Social Psychology*

PSY 490 INDEPENDENT STUDY (V 1-4)

See *PSYX 492 Independent Study*

PSY 498 SENIOR PROJECT/THESIS (V 1-15)

See *PSYX 499 Senior Thesis/Capstone*

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

PSYX—Psychology **[New CCN rubric effective Fall 2009]**

PSYX 100 INTRODUCTION TO PSYCHOLOGY (4)

Pre-Fall 2009 UMW course: PSY 100 General Psychology

A survey of the history, methodology, and major theories of psychology. Topics include the influence of biology, individual experience, and culture on human consciousness. Students are expected to demonstrate understanding and comprehension of course content through course examinations and out-of-class writing assignments. Lecture and small group discussions. (fall/spring)

PSYX 203 INTRODUCTION TO SOCIAL SCIENCE RESEARCH METHODS (4)

Pre-Fall 2009 UMW courses: PSY 220 Introduction to Social Science Research Methods, and PSY 221 Quantitative Methods for Social Science

A survey of research methods and tools used by behavioral scientists. Students are expected to demonstrate understanding and comprehension of course content through course examinations, out-of-class writing assignments, and the critical application of course content to a student-selected problem. Lecture, small group discussions, and problem-solving. (on demand)

PSYX 230 DEVELOPMENTAL PSYCHOLOGY (4) (CD)

Pre-Fall 2009 UMW course: PSY 275 Developmental Psychology

This course is designed as an introduction to the research methodologies and major theories of developmental psychology. Physical, cognitive, social, emotional, and personality development are explored from conception to death within the context of socio-cultural background. Students are expected to demonstrate understanding and comprehension of content through course examinations and out-of-class writing assignments. (fall/odd-numbered years)

PSYX 252 FUNDAMENTALS OF COMPARATIVE PSYCHOLOGY (4)

Pre-Fall 2009 UMW course: PSY 203 Comparative Psychology

This course will investigate animal behavior from the viewpoint of its role in the natural life of the individual and the species. Specific topics include associative learning, constraints on learning, methods for studying the cognitive abilities of animals, levels of cognitive representation, ecological influences on cognition, and evidence of consciousness in animals. Students are expected to demonstrate understanding and comprehension of course content through course examinations and out-of-class writing assignments. (fall)

PSYX 270 FUNDAMENTAL PSYCHOLOGY OF LEARNING (4)

Pre-Fall 2009 UMW course: PSY 360 Learning & Memory

A survey of the basic theories and research regarding the nature of the human acquisition and use of knowledge. Specific topics include learning, memory, thinking, and metacognition. Students are expected to demonstrate understanding and comprehension of course content through course examinations and out-of-class writing assignments (on demand)

PSYX 280 FUNDAMENTALS OF MEMORY & COGNITION (4) (CD)

Pre-Fall 2009 UMW course: PSY 201 Introduction to Cognition

This course is designed as an introduction to the basic research methods and general theories of cognitive psychology by examining how people acquire information both explicitly and implicitly from the environment, how that information is represented and processed internally, and how it influences everyday thinking, communication, and problem-solving. Specific emphasis will be placed on how socio-cultural context impacts perception and internal ideation. Students are expected to demonstrate understanding and comprehension of course content through course examinations and out-of-class writing assignments. (fall/even-numbered years)

PSYX 290 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: c/i, c/pc, and c/vc. (on demand)

PSYX 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: PSY 290 Independent Study

Directed research or study, with emphasis on experiential learning.

Prereq: c/i, c/pc, and c/vc. (on demand)

PSYX 294 SEMINAR/WORKSHOP (V 1-4)

Selected topics of interest. (spring/even-numbered years)

PSYX 322 QUANTITATIVE RESEARCH METHODS FOR THE BEHAVIORAL SCIENCES (4)

Pre-Fall 2009 UMW course: PSY 300 Quantitative Research Methods for the Behavioral Sciences

This course is designed to help students become competent, critical consumers of social science quantitative research. The students will be expected to demonstrate the abilities necessary to critically design, implement, and analyze quantitative research. Prereq: General Education Behavioral & Social Science requirement, 6 credits of lower division psychology coursework beyond PSY 100 (*PSYX 100*), and BIO 233 (*STAT 233*); or c/i. (fall)

PSYX 356 HUMAN NEUROPSYCHOLOGY (4)

This course is the study of the organization of the nervous system, functional neuroanatomy, and behavioral neurology. Specific topics will include structures and related behaviors as well as the methods used to study these relationships. Investigations will include simulations as well as exploration of the research literature. Prereq: **Junior standing, or c/i.** (fall/odd-numbered years)

PSYX 360 SOCIAL PSYCHOLOGY (4)

Pre-Fall 2009 UMW course: PSY/SOC 452 Social Psychology & Group Dynamics

Social psychology will focus on the investigation of how the embedding context of cultural and group membership impact the typical individual. Prereq: **Junior standing, or c/i.** (fall/odd-numbered years)

PSYX 366 MOTIVATION-THEORY & PRACTICE (4) (CD)

Pre-Fall 2009 UMW course: PSY 265 Introduction to Motivation-Theory & Practice

This course introduces the fundamental theories of motivation, how those theories are applied to various socio-cultural environments, and the impact on both individuals and social groups. Specific topics include motives and cultural models, motivation and institutional settings, and motivation and optimal experiences. Students are expected to demonstrate understanding and comprehension of course content through course examinations and out-of-class writing assignments. Prereq: **Junior standing, or c/i.** (on demand)

PSYX 385 PSYCHOLOGY OF PERSONALITY (4)

Pre-Fall 2009 UMW course: PSY 437 Psychology of Personality

This course is designed as an introduction to the basic history, research methods, and general theories of personality psychology. Topics include

the impact of biological, social, and experiential on personality development. Students are expected to demonstrate understanding and comprehension of course content through course examinations and out-of-class writing assignments. Prereq: PSY 300 (*PSYX 322*); or c/i. (fall/even-numbered years)

PSYX 440 ABNORMAL PSYCHOLOGY & RESEARCH (4)

Pre-Fall 2009 UMW course: PSY 438 Abnormal Psychology

This course explores the symptoms and causes of various types of psychological disorders. Topics will be explored from psychodynamic, cognitive, social, and behavioral perspectives. Students are expected to demonstrate understanding and comprehension of course content through course examinations and out-of-class writing assignments. Prereq: **Junior standing, or c/i.** (spring/odd-numbered years)

PSYX 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: PSY 300 (*PSYX 322*), c/i, c/pc, and c/vc. (on demand)

PSYX 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: PSY 490 Independent Study

Advanced directed research or study, with emphasis on experiential learning. Students are expected to critically evaluate, analyze, and synthesize selected topics through authorship of an extensive course paper requiring independent archival skills. Prereq: PSY 300 (*PSYX 322*), c/i, c/pc, and c/vc. (on demand)

PSYX 494 SEMINAR/WORKSHOP (V 1-4)

Pre-Fall 2009 UMW course: PSY 409 Seminar

Selected topics of interest. Prereq: Junior standing. (fall)

PSYX 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2009 UMW course: PSY 400 Cooperative Education/Internship

This option is intended to provide students with an opportunity to incorporate an appropriate extended field experience into their academic program. Field placement options to include all facets of the helping professions. Prereq: PSY 300 (*PSYX 322*), c/i, c/pc, and c/vc. (on demand)

PSYX 499 SENIOR THESIS/CAPSTONE (V 1-15)

Pre-Fall 2009 UMW course: PSY 498 Senior Project/Thesis

This course is intended as a culminating experience. Working with a faculty advisor, the student will generate a project or thesis that demonstrates a competent, independent application of basic psychological research or program evaluation skills. Completion of a thesis or project is a developmental process and is projected to be completed over a 3- to 4-semester timeframe. Students completing a thesis are expected to enroll in the course for no more than 2 credits per semester. Prereq: PSY 300 (*PSYX 322*), c/i, c/pc, and c/vc. (on demand)

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SOC—Sociology

[For CCN equivalent courses, see appropriate rubric & course listed under individual courses]

SOC 115 INTRODUCTION TO SOCIOLOGY (4) (CD)

See *SOCI 101 Introduction to Sociology*

SOC 203 SOCIAL PROBLEMS & DEVIANT BEHAVIOR (4) (CD)

See *SOCI 201 Social Problems*

SOC 219 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: SOC 115 (*SOCI 101*), c/i, c/pc, and c/vc. (on demand)

SOC 220 INTRODUCTION TO SOCIAL SCIENCE RESEARCH METHODS (4)

See *ISSS 220 Quantitative Social Research Methods*

SOC/ANTH/HIST/POLS 221 QUANTITATIVE METHODS FOR SOCIAL SCIENCE (4)

See *ISSS 221 Quantitative Research Methods for Social Science*

SOC/ANTH/HIST/POLS/PSY 222 QUALITATIVE METHODS FOR SOCIAL SCIENCE (4)

See *ISSS 222 Qualitative Research Methods for Social Science*

SOC 290 INDEPENDENT STUDY (V 1-4)

See *SOCI 292 Independent Study*

SOC 300 SOCIOLOGY OF THE FAMILY (4)

See *SOCI 332 Sociology of the Family*

SOC 305 SOCIAL THEORY (4)

See *ISSS 305 Social & Anthropological Theory*

SOC 310 RESTORATIVE JUSTICE (4)

See *SOCI 317 Restorative Justice*

SOC/ANTH 315 POLITICAL SOCIOLOGY (4)

See *ISSS 315 Political Sociology*

SOC 320 MEDIATION (4)

See *SOCI 360 Mediation*

SOC 400 COOPERATIVE EDUCATION/INTERNSHIP (V 1-15)

See *SOCI 498 Internship/Cooperative Education*

SOC 409 SEMINAR (4)

See *SOCI 494 Seminar/Workshop*

SOC 419 DIRECTED STUDY (V 1-4)

Selected topics under faculty supervision, with emphasis on experiential learning. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

SOC 425 MONTANA INDIAN SOVEREIGNTY (4)

See *ISSS 425 Montana Indian Sovereignty*

SOC 450 SOCIAL STRATIFICATION (4)

See *ISSS 450 Social Stratification*

SOC 452 SOCIAL PSYCHOLOGY & GROUP DYNAMICS (4)

See *PSYX 360 Social Psychology*

SOC/ANTH 475 CULTURAL ECOLOGY (4)

See *ISSS 475 Cultural Ecology*

SOC/ANTH 484 ECONOMIC SOCIOLOGY (4)

See *ISSS 484 Economic Anthropology & Sociology*

SOC/ANTH 485 GENDER, ECONOMY, & SOCIAL CHANGE (4)

See *ISSS 485 Gender, Economy, & Social Change*

SOC 490 INDEPENDENT STUDY (V 1-4)

See *SOCI 492 Independent Study*

SOC 498 SENIOR PROJECT/THESIS (V 1-15)

See *SOCI 499 Senior Thesis/Capstone*

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SOCI—Sociology
[New CCN rubric effective Fall 2009]

SOCI 101 INTRODUCTION TO SOCIOLOGY (4) (CD)

Pre-Fall 2009 UMW course: SOC 115 Introduction to Sociology

A comprehensive survey of the history, methodology, and major theories of sociology. Students will be able to demonstrate an understanding of course content through written critiques and directed examinations. Lecture and small group discussions. (fall)

SOCI 201 SOCIAL PROBLEMS (4) (CD)

Pre-Fall 2009 UMW course: SOC 203 Social Problems & Deviant Behavior

There will be discussions of the major social problems including, but not limited to, analysis of social causes and issues of deviant behavior and juvenile delinquency. This will include stigmatized behavior and conditions, including the causes, effects of this stigma. Domestic violence, juvenile delinquency, and the process of criminalization of certain behavior will be included. Students will demonstrate understanding and comprehension of course content through course examinations and out-of-class writing assignments. (Block 5 spring/even-numbered years)

SOCI 290 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: SOC 115 (*SOCI 101*), c/i, c/pc, and c/vc. (on demand)

SOCI 292 INDEPENDENT STUDY (V 1-4)

Directed research or study, with emphasis on experiential learning. Prereq: SOC 115 (*SOCI 101*), c/i, c/pc, and c/vc. (on demand)

SOCI 294 SEMINAR/WORKSHOP (V 1-4)

Selected topics of interest. (on demand)

SOCI 317 RESTORATIVE JUSTICE (4)

Pre-Fall 2009 UMW course: SOC 310 Restorative Justice

This class is an overview of some of the directions in which the justice system is proceeding. Restorative Justice is an alternative approach to crime and altercations of any type. It focuses on positive, non-violent ways to arrive at just solutions to wrongdoing. As a culture, traditionally we have a winner-take-all approach to disputes, and a retributive/vengeful approach to crime. This class focuses on alternative ways to respond, for resolution for all victims. Students will participate in conflict resolution role-playing, and develop case studies on a particular aspect of restorative justice. Assessment will be based on class participation, case studies, formal presentations, and development of advocacy resources. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and Junior/Senior standing; or c/i. (on demand)

SOCI 332 SOCIOLOGY OF THE FAMILY (4)

Pre-Fall 2009 UMW course: SOC 300 Sociology of the Family
Historical, cross-cultural, and analytical study of the family. Emphasis on ideology, social structures, and agency affecting family composition and roles. Students will participate in supervised research, and hands-on experience with family studies and family counseling. Students will be assessed based on class discussions and research projects. Prereq: SOC 115 (*SOCI 101*). (on demand)

SOCI 360 MEDIATION (4)

Pre-Fall 2009 UMW course: SOC 320 Mediation

Mediation is a way of resolving disputes between parties with an emphasis on the parties resolving the dispute in an empowering manner. The focus is on those involved coming to a resolution of the issue with the help of a mediator, and without a solution being imposed by an outside authority. The kinds of disputes can be civil, personal, criminal,

and institutional, though not limited to these. Other examples would be: land use, foreign policy, labor/management, peer mediation in schools. Students will practice communication skills in dyads, participate in mediation role-playing, prepare and deliver oral presentations, and maintain a class journal. Assessment will be based on peer review, quality and content of presentations, and participation in class activities. (on demand)

SOCI 490 UNDERGRADUATE RESEARCH (V 2-8)

Selected topics under faculty supervision. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

SOCI 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2009 UMW course: SOC 490 Independent Study
Advanced directed research or study, with emphasis on experiential learning. Students are expected to critically evaluate, analyze, and synthesize selected topics through authorship of an extensive course paper requiring independent archival skills. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

SOCI 494 SEMINAR/WORKSHOP (V 1-4)

Pre-Fall 2009 UMW course: SOC 409 Seminar
Selected topics of interest. Prereq: Junior standing. (Block 7 spring/odd-numbered years)

SOCI 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2009 UMW course: SOC 400 Coop Ed/Internship
This option is intended to provide students with an opportunity to incorporate an appropriate extended field experience into their academic program. Field placement options to include all facets of the helping professions. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

SOCI 499 SENIOR THESIS/CAPSTONE (V 1-15)

Pre-Fall 2009 UMW course: SOC 498 Senior Project/Thesis
This course is intended as a culminating experience for the social science degree. Working with a faculty advisor, the student will generate a product that demonstrates a competent, independent application of basic sociological research. Prereq: ANTH/HIST/POLS/PSY/SOC 220, or ANTH/HIST/POLS/PSY/SOC 221, or ANTH/HIST/POLS/PSY/SOC 222, or *ISSS 222*; and c/i, c/pc, and c/vc. (on demand)

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SS—Student Services

SS 201 STUDENT GOVERNANCE & ACTIVITIES (1)

Review of student governance theories spanning elementary processes through higher education. Students are expected to apply theoretical knowledge, outreach to and advise targeted student groups, and plan and implement UMW-sponsored activities that address academic, social, cultural, and political concerns of students from all ages. Written exam and lab. Lecture and small group discussions. Prereq: recognized and official participation in Student Senate.

SS 250 RADIO BROADCASTING & THE COMMUNITY (2)

This course is designed to offer an introduction to various aspects of radio broadcasting and to prepare students to fill various roles in the

operation of campus radio station KDWG. Following instruction in the technical, legal, historical, and public service elements of broadcasting, students will fulfill various roles at KDWG through the remainder of the semester. These roles include: serving as on-air disk jockeys or discussion moderators; performing production work in the preparation or delivery of public service announcements, remote broadcasts, or dramatic performances; assisting station management in public outreach efforts, to generate support of the station or organize station activities. The class will be organized in lecture/discussion format through the first several weeks, followed by direct hands-on experience working in the studios of KDWG. (fall/spring)

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STAT—Statistics [New CCN rubric effective Fall 2009]

All mathematics courses beyond this level satisfy the Mathematics General Education requirement.

Some statistics courses make use of an appropriate graphing calculator.

Contact the Department of Mathematics at 683-7274 for information regarding the recommended calculator.

Math Proficiency Standards (see page 7)

Prerequisite for all 100-level Math courses is one of the following:

- MATH 007/M 095 grade C- or higher
- C- or higher in any MATH 100-level (or higher) course
- score of 22 or higher on the Math section of the ACT
- score of 520 or higher on the Math section of the SAT
- consent of instructor (c/i)
- Students may be deemed proficient if they complete a Rigorous High School core including four years of mathematics

STAT 121 PROBABILITY (4)

Pre-Fall 2009 UMW course: MATH 131 Probability
This course is designed as an introductory course to probability. Upon successful completion of this course, the student should be familiar with basic set theory concepts, combinations and permutation problems, probability distributions, and basic probability computations. The student will also be introduced to calculator or computer technology used in simulating and calculating probabilities. As such, students are required to have a calculator that can compute probability distributions. A calculator from the TI-83/84 family is recommended. Prereq: MATH

007 (M 095) grade C- or higher; or meet one Math Proficiency standard above; or c/i. (fall/spring)

STAT 217 INTERMEDIATE STATISTICAL CONCEPTS (4)

Pre-Fall 2009 UMW course: MATH 232 Statistics
Upon completion of this course, the student should be familiar with the basic concepts of descriptive and inferential statistics. The student should exhibit competence in describing data using measures of central tendency, measures of location, measures of dispersion, and various graphical techniques. The student should be able to compute

confidence intervals and test hypotheses regarding population parameters. The student should be familiar with using calculators and computer software to conduct various statistical procedures including one- and two-way analysis of variance, correlation, and various non-parametric tests. Prereq: MATH 131 (*STAT 121*) grade C- or higher; or c/i. (fall/spring)

STAT 233 BIOSTATISTICS (4)

Pre-Fall 2009 UMW course: MATH/BIO 233 Biostatistics

Upon completion of this course, the student should be familiar with the basic concepts of descriptive and inferential statistics as applied in various areas of biology. The student should exhibit competence in describing data using measures of central tendency, measures of location, measures of dispersion, and various graphical techniques. The student should be able to compute confidence intervals and test hypotheses including derivation of sampling distributions (either theoretical, or derived via bootstrapping or randomization techniques) and the comparison of similar tests using statistical power. The student should be familiar with using calculators and computer software to conduct various statistical procedures including both parametric and nonparametric tests: t-test, sign test, Wilcoxon Rank-sum test, one-way ANOVA, Kruskal-Wallis test, two-way ANOVA, Friedman k-sample Test, regression, correlation, Chi-square and Kolmogorov-Smirnov Tests. Prereq: MATH 131 (*STAT 121*) grade C- or higher; or c/i. (fall)

STAT 331 BIOINFORMATICS (4)

Pre-Fall 2009 UMW course: MATH/BIO 331 Bioinformatics

This course will cover the basic concepts in this newly emerging field at the interface between mathematics and molecular biology. Students will begin with basic problems of sequence analysis and alignment and move to applications in genomics, phylogenetics, predicting protein structure, analysis of microarray data, and the construction of gene networks in metabolism and development. Students will learn how to access the various databases and write a research proposal in molecular biology that may serve as the basis for thesis work. Prereq: MATH 131 (*STAT 121*) and BIO 255 (*BIOB 260*) grade C- or higher; or c/i. (spring/odd-numbered years)

STAT 335 ADVANCED FIELD STATISTICS (4)

Pre-Fall 2009 UMW course: MATH/BIO 332 Advanced Field Statistics

The course will focus on sampling design, statistical analysis, data collection, and the presentation of results. This is a field-based course that will prepare students to conduct research in ecology using statistical techniques appropriate for ecology. In addition to the nonparametric techniques of bootstrapping and randomization, students will learn the basic multivariate, time series, and spatial statistics employed in ecological analysis. Students will learn how to design sampling strategies, implement basic sampling techniques, collect data efficiently, analyze and present their data. Prereq: MATH 232 (*M 217*) or MATH/BIO 233 (*STAT 233*) grade C- or higher; or c/i. (fall)

STAT 422 MATHEMATICAL STATISTICS (4)

Pre-Fall 2009 UMW course: MATH 333 Mathematical Statistics

This course serves as an introduction to mathematics statistics using calculus. Topics to be covered will include random variables, distribution and density functions, joint and conditional distributions, moment generating functions, technique for sums, convergence in distribution, convergence in probability, and the central limit theorem. Prereq: MATH 131 (*STAT 121*) and MATH 202 (*M 172*) grade B- or higher; or c/i. (spring/even-numbered years)

STAT 433 STOCHASTIC MODELING (4)

Pre-Fall 2009 UMW course: MATH 433 Stochastic Modeling

This is a course in stochastic processes with emphasis on model building and probabilistic reasoning. Topics to be covered may include a review of elementary probability theory, Poisson processes, discrete and continuous time Markov chains, Brownian motion, random walks, and martingales. Applications will be drawn from the physical, biological, and social sciences. Students will learn hands-on design and construction of working models using appropriate technology. Upon successful completion of this course, the student should be proficient in asking research questions, collecting and arranging data, and designing models to answer the questions asked. Prereq: MATH 131 (*STAT 121*) and MATH 210 (*M 210*) grade B- or higher; or c/i. (spring/even-numbered years)

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THTR—Theatre ***[New CCN rubric effective Fall 2010]***

THTR 101 INTRODUCTION TO THEATRE (4)

Pre-Fall 2010 UMW course: DR 101 Drama Fundamentals

The basics of drama—including formal theatre, improvisational drama, and narrative film and television—are story, place, audience, and actor. Students actively explore the relationships between these elements in a lab setting, by creating scenes based on selections from literature, current and historical events, cuttings from film scripts, and more. They analyze the purposes of drama, and learn about a variety of “Western” as well as non-European traditions. They study the responsibilities of the actor, script writer, director, and design staff in theatre and film productions. \$15 Course Fee. (fall/spring)

THTR 120 INTRODUCTION TO ACTING I (4)

Pre-Fall 2010 UMW course: DR 276 Acting Fundamentals & Styles

Students apply principles of character creation, stage movement, script analysis, and acting theory for a variety of theatre performances including modern, post-modern, period styles, and dramatic verse. Activities include analyzing, rehearsing, and performing publicly. Students successfully completing this course will demonstrate competency in applying skills of performance to special textual needs including stylized comedy, modern realism, and heightened language. \$10 Course Fee. (alternating semesters/every year)

THTR 202 STAGECRAFT I: LIGHTING & COSTUMES (4)

Pre-Fall 2010 UMW course: DR 243 Stagecraft & Costume

Students learn and apply stagecraft design and construction methods in several areas including lighting, stage rigging, set, costume, sound, and stage management. Students develop basic skills in a variety of stage arts by applying learned skills to a specific production. Those who successfully complete the course exhibit competencies in identifying stagecraft problems, devising potential solutions, and putting solutions into practice. \$15 Course Fee. (spring/even-numbered years)

THTR 205 THEATRE WORKSHOP II (V 1-2) R-3

Pre-Fall 2010 UMW course: DR 217 Theatre Practicum

Hands-on experience for those interested in becoming involved with performance, technical, and box-office duties within the campus production program. Projects must be designed in consultation with the faculty member in charge. \$10 Course Fee. (fall/spring)

THTR 276 PLAY PRODUCTION & INTRODUCTION TO DIRECTING (4) R

Pre-Fall 2010 UMW course: DR 241 Play Production & Introduction to Directing

Students produce and direct a work of dramatic literature for the stage, learning processes of theatre performance through hands-on practice and study. Upon successful completion of this course, students demonstrate basic knowledge and skills in several areas of play production

including safety, script selection and analysis, casting, rehearsal, performance, and directing. \$25 Course Fee. (fall)

THTR 292 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2010 UMW course: DR 290 Independent Study
Directed research or study is conducted on an individual basis. Students design projects in such areas as play analysis, stage design, or theatre history with individual faculty members who guide the research and help the student formulate individualized learning outcomes. Prereq: c/i, c/pc, and c/vc. (fall/spring)

THTR 338 DRAMA FOR YOUTH (2)

Pre-Fall 2010 UMW course: DR 346 Drama for Youth
With theoretical and practical training in selection of playscripts and story material, acting, pantomime, and simple staging techniques, students will demonstrate abilities in designing and leading drama activities with youth. Creative drama, reader's theatre, children's theatre, and puppetry activities are explored with attention to drama's use in elementary schools and community youth programs. (fall/even-numbered years)

THTR 397 METHODS: DRAMA FOR K-12 (2)

Pre-Fall 2010 UMW course: DR 351 Classroom Drama Methods
Effective 2011-12: *EDU 397D Methods: K-12 Drama*

THTR 401 CREATIVE DRAMA/IMPROVISATION (2)

Pre-Fall 2011 UMW course: DR 401 Creative Drama Methods
Theories, procedures, and materials for creative drama in educational and recreational settings are studied and practiced. Students will demonstrate knowledge and practical skills in improvisational drama as an art form as well as drama's use as a means to explore history, literature, social issues, and other topics. (spring/odd-numbered years)

THTR 435 STORYTELLING (2)

Pre-Fall 2010 UMW course: DR 466 Storytelling
This course focuses on the traditions, forms, and methods of oral storytelling. Students study tales and techniques from a variety of cultures, practice many genre of stories and styles of telling. Upon completion of this course, students will have researched tales from many cultures and time periods, practiced performing for several audience types and ages, know effective story content, practiced skills in communicating clearly and expressively, and understand a variety of story themes and topics from cultures in addition to their own. Prereq: c/i. (on demand)

THTR 479 DIRECTING FOR THE COMMUNITY & SCHOOLS (4)

Pre-Fall 2010 UMW course: DR 460 Advanced Directing
This course explores basic concepts of directing plays. Included are basic approaches to analyzing, communicating, and staging the play. Practical application of this knowledge will be demonstrated through preparing some directing presentations (both alone and in groups), a short scene from a play, and/or a short or full-length play. (spring/odd-numbered years)

THTR 492 INDEPENDENT STUDY (V 1-4)

Pre-Fall 2010 UMW course: DR 490 Independent Study
Directed research or study by an individual student that extends beyond the scope of the listed catalog offerings. The study is devised by the student in collaboration with a Drama department advisor. Learner outcomes are determined on a case-by-case basis according to the individual student's needs and interests, as well as the topic of study. Prereq: c/i and c/vc. (fall/spring)

THTR 494 SEMINAR/WORKSHOP (V 1-4) R

Pre-Fall 2010 UMW course: DR 409 Seminar
Selected topics of interest are explored in seminar fashion. Student learning outcomes are dependent upon the topics of exploration and arranged by individual students in consultation with the faculty member in charge. Prereq: c/i and c/pc. (on demand)

THTR 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2010 UMW course: DR 400 Cooperative Education/Internship
This experience incorporates an appropriate work experience into the student's academic preparation. Students exhibit knowledge and skills in linking their academic training to the "real world". Prereq: Senior standing and c/i. (fall/spring)

THTR 499 SENIOR THESIS/CAPSTONE (V 1-15)

Pre-Fall 2010 UMW course: DR 498 Senior Project/Thesis
An individual project or thesis closely associated with the student's academic program and career goals. Learner outcomes are devised collaboratively by the student with the project or thesis advisor. Project/thesis election is subject to approval of the project/thesis advisor. Prereq: Senior standing and c/i. (fall/spring)

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TRIO—Trio

TRIO 204 PEER TUTORING (V 1-4)

Upon completion of this course, students will be familiar with various types of tutoring strategies that can be used in individual and small group settings. Communication skills, planning, academic skills building, information processing models, and presentation techniques will be addressed. Students are required to participate in a 4-hour

tutor training session at the beginning of the semester and attend 2 tutor talk meetings during the semester. Students are expected to apply tutoring techniques, present a workshop in the Learning Center, and assist as a student volunteer through the Learning Center. Prereq: c/i and recommendation of faculty from area of tutoring emphasis. (fall/spring)

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WILD—Fish & Wildlife Science & Management [New CCN rubric effective Fall 2011]

WILD 471 WILDLIFE ECOLOGY & MANAGEMENT (4)

Pre-Fall 2011 UMW course: BIO 471 Wildlife Ecology & Management
This course will provide students with a foundation in the science of wildlife biology. The theory portions of the course will cover the fundamentals of wildlife science including the following: wildlife

census techniques, wildlife population dynamics, experimental design of field studies, data collection and analysis, decimating factors (predation, hunting, disease, accidents, and starvation), welfare factors (forage, water, cover, and special factors), wildlife administration and law, habitat management and alteration (farm and rangelands, forests, national parks, wildlife refuges, and urban environments), exotic

species, endangered species management of game and non-game species, and the economics of wildlife. The field portion of the course will include projects designed by students to engage them in looking at the realities, the difficulties, and sometimes the thrill of field research in wildlife biology. An additional and significant goal of the course will be to expose students to the primary wildlife literature. Students will be assessed based on written exams, data analyses, the ability to function as a team to develop effective project proposals and work in field/laboratory settings collecting and analyzing data, demonstrations of written and oral communications skills in chapter discussions and group project presentations, and the quality of field notebooks. \$45 Course Fee. Prereq: BIO 112 (*BIOB 170*), and either MATH 232 (*STAT 217*) or MATH 233 (*STAT 233*); or c/i. (fall/even-numbered years)

WILD 473 FISHERIES ECOLOGY & MANAGEMENT (4)

Pre-Fall 2011 UMW course: BIOO 340 Biology & Management of Fishes

This course will expose students to the diversity, adaptations, and ecology of fishes. Field activities will focus on the collection and analysis of data on fish populations and communities. Professional fisheries biologists will expose students to the theory and practice of fisheries management. Laboratory activities include the microscopic examination of the internal and external anatomy of preserved and collected whole fish specimens, along with the physiology and behavior of live fish. A field-based team project that will result in a written report and oral presentation. Students will be assessed based on written exams, data analyses, the ability to function as a team to develop effective project proposals and work in field/laboratory settings collecting and analyzing data, demonstrations of written and oral communication skills in chapter discussions and group project demonstrations, and the quality of field notebooks. \$110 Course Fee. Prereq: BIO 112 (*BIOB 170*), and either MATH 232 (*STAT 217*) or MATH 233 (*STAT 233*); or c/i. (fall/odd-numbered years)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

WLDG—Welding ***[New CCN rubric effective Fall 2013]***

WLDG 109 FUNDAMENTALS OF WELDING (3)

This course will examine the different processes used combining and processing metals in industry today. The class provides an introduction to the most common types of cutting and welding procedures. The cutting processes examined in this course are Oxy Fuel, Plasma Arc and Carbon Arc cutting. Students will have hands-on experience using different welding processes such as Shielded Metal Arc Welding, oxygen Acetylene welding, Gas Metal Art Welding, and Gas Tungsten

Art Welding. Students will receive training using manufacturers' safety recommendations for individual equipment. Students will learn to identify and follow safe work practices as well as inspections of power equipment (portable and stationary), hand tools, and also demonstrate the safe and proper use of each tool. Hands-on training will be administered throughout this course to ensure that proper technique and safety measures are met with all above mentioned processes. \$60 Course Fee. Prereq: IT 130 or DFT 150. (spring)

Note: New Common Course Numbering system rubrics and courses are displayed in *italics* throughout this Catalog.

WRIT—Writing ***[New CCN rubric effective Fall 2009]***

Note: credit for WRIT 095 is not applicable to graduation; credit may not count as part of load for financial aid purposes; credit may not count as part of load for eligibility purposes. Grades, honor/grade points, or credits for WRIT 095 are not used in calculation of the GPA.

WRIT 095 DEVELOPMENTAL WRITING (4)

Pre-Fall 2009 UMW course: ENG 091 Introduction to Academic Writing

WRIT 095/WRIT 101 (co-req) provides students with two consecutive blocks of writing practice. This additional time, and a class size limited to 15, will help students build confidence in their writing and their ideas. Through the composition of multiple draft essays, students will learn how to define a clear purpose in writing, become fluent for an academic audience, develop and sustain logical reasoning, construct effective essays with a focused thesis, experience the importance of drafting, revising, and peer editing, incorporate source material using MLA documentation, develop critical reading, thinking, and speaking skills, and create an engaging voice that gives personal authority to their writing and speaking. A variety of teaching and learning practices are included in this course: e.g., traditional lecture, oral readings, group discussions, creative and/or analytical writing, listening activities, oral and/or dramatic presentations, visits with authors, interviews, internet and off-campus activities, research practice, etc. (fall/spring)

power of language to influence the world and to define the individual. Students will be provided opportunities to explore and express the possibilities language offers to influence others and to explore students' own individuality. This course will examine the symbiotic relationship between spoken and written language. Emphasis will be on personal expression, clear communication for selected purposes, the writing of essays, drafting and revising processes with attention to organization, style, and critical thinking, and critical reading and listening skills. Techniques will include discussion, improvisation, peer and instructor response, and self-evaluation. Prereq: Writing Proficiency Standard (page 7), or ENG 091 (*WRIT 095*) grade C- or higher. (fall/spring)

WRIT 313 WRITING FOR PUBLICATION (4)

Pre-Fall 2009 UMW course: ENG 313 Writing for Publication

This course provides an examination of the process of writing for publication and the practice of publishing commercial nonfiction. This is a class in freelance writing and editing—covering topics such as writing query letters, performing market analysis, workshopping article drafts, conducting interviews, etc. As part of their study of commercial writing, students will write for a range of publications, including traditional magazines and webzines. Prereq: WRIT 101; or c/i. (fall)

WRIT 101 COLLEGE WRITING I (4)

Pre-Fall 2009 UMW course: ENG 102 Foundations of Language

This course is designed to be a celebration of the varieties of written and oral communication. Students will immerse themselves in language, to experience its range of expression. They will recognize the

WRIT 321 ADVANCED TECHNICAL WRITING (4)

Pre-Fall 2009 UMW course: ENG 350 Technical & Professional Communications

This course builds upon reading, writing, and public speaking skills introduced in ENG 102/*WRIT 101*. It intensively surveys varieties and strategies of written and oral presentations common in contemporary work settings including technical writing, editing, small group communications, and PowerPoint presentations, among others. The course is designed to refine students' abilities in oral communications and broaden their repertoire of writing styles. Prereq: ENG 102 (*WRIT 101*); or c/i. (spring/odd-numbered years)

WRIT 322 ADVANCED BUSINESS WRITING (4)

Pre-Fall 2011 UMW course: BUS 317 Advanced Business Communications

Students will learn and integrate fundamental principles and inter-relationships within the context of real-world business communication issues. The course emphasizes an understanding of the important methods, terms, theories, and findings in the field of Management Communications. The course will cover technological communications and communicating in intercultural and international contexts. The course will provide experiential instruction through active participation in an interactive classroom environment. The teaching methodology will focus on motivating students in gaining impact assessment of their communications, using a variety of instructional, assessment, and foundation techniques. Assessment will be through written exams, evaluation of field-based and classroom assignments, and presentations. Prereq: BUS 217; or c/i. (fall)

WRIT 430 TECHNOLOGICAL LITERACY (4)

This course focuses on technologies of literacy, from the rise of the written word in the ancient Mediterranean world to the rise of visual culture online. In addition to taking part in a range of classroom activities, including lectures and group projects, and completing out-of-class reading assignments, students will deliver presentations and craft multiple written products (e.g., research papers, blogs, zine articles, etc.). Prereq: WRIT 101; or c/i. (fall/even-numbered years)

WRIT 498 INTERNSHIP/COOPERATIVE EDUCATION (V 1-15)

Pre-Fall 2009 UMW course: ENG 400 Cooperative Education/ Internship

This experience incorporates an appropriate work experience into students' academic preparation. Students apply their knowledge and skills in professional settings under supervision. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

WRIT 499 SENIOR PROJECT/THESIS (V 1-15)

Pre-Fall 2009 UMW course: ENG 498 Senior Project/Thesis

An individual project or thesis closely associated with the student's academic program and career goals. Student works with one selected faculty member. Prereq: Senior standing, c/i, c/pc, and c/vc. (fall/spring)

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2013-14 Catalog

Course Rubrics

(new Common Course Numbering rubrics in italics)

ACT—Activities	<i>EQUUS—Equine Sciences</i>
ACTG—Accounting	FA—Fine Arts
ACTV—Activities: Varsity	<i>GEO—Geoscience: Geology</i>
AHAT—Applied Health: Athletic Training	GEOG—Geography
ANTH—Anthropology	GEOL—Geology
ANTY—Anthropology	<i>GPHY—Geoscience: Geography</i>
ART—Art	<i>HEE—Health Enhancement</i>
ARTH—Art History	HHP—Health & Human Performance
ARTZ—Art: Visual & Studio Arts	HIST—History
ASTR—Astronomy	HON—Honors
<i>BFIN—Business: Finance</i>	<i>HSTA—History: American</i>
<i>BGEN—Business: General</i>	<i>HSTR—History: World</i>
BIO—Biological Sciences	<i>HTH—Health</i>
<i>BIOB—Biology: General</i>	<i>HTR—Hospitality, Tourism, & Recreation</i>
<i>BIOE—Biology: Ecology</i>	<i>ISSS—Interdisciplinary Studies-Social Science</i>
<i>BIOH—Biology: Human</i>	IT—Industrial Technology
<i>BIOM—Biology: Micro</i>	<i>ITS—Information Technology Systems</i>
<i>BIOO—Biology: Organismal</i>	<i>KIN—Kinesiology</i>
<i>BMGT—Business: Management</i>	LIB—Library Science
<i>BMIS—Business: Management Information Systems</i>	<i>LIBM—Library Media</i>
<i>BMKT—Business: Marketing</i>	<i>LING—Linguistics</i>
BUS—Business	<i>LIT—Literature</i>
<i>CAPP—Computer Applications</i>	<i>M—Mathematics</i>
CHEM—Chemistry	<i>MART—Media Arts</i>
<i>CHMY—Chemistry</i>	MATH—Mathematics
<i>COA—Coaching</i>	<i>MCH—Machining & Manufacturing Technology</i>
COMS—Computer Science	MUS—Music
<i>COMX—Communication</i>	<i>MUSE—Music: Education</i>
<i>CRWR—Creative Writing</i>	<i>MUSI—General Music</i>
<i>CSCI—Computer Science/Programming</i>	<i>NRSM—Natural Resources & Science Management</i>
<i>CSTN—Construction Trades</i>	<i>NUTR--Nutrition</i>
<i>CTE—Career & Technical Education</i>	PHIL—Philosophy
<i>DANC—Dance</i>	<i>PHL—Philosophy</i>
<i>DDSN—Drafting Design</i>	<i>PHSX—Physics</i>
DR—Drama	PHYS--Physics
<i>ECNS—Economics</i>	POLS--Political Science
ECON—Economics	<i>PSCI—Political Science</i>
<i>ECP—Emergency Care Provider</i>	PSY--Psychology
ED—Education	<i>PSYX—Psychology</i>
<i>EDEC—Early Childhood Education</i>	SOC—Sociology
<i>EDSP—Special Education</i>	<i>SOCI—Sociology</i>
<i>EDU—Education</i>	SS--Student Services
ENG—English	<i>STAT—Statistics</i>
<i>ENSC—Environmental Sciences</i>	<i>THTR—Theatre</i>
<i>ENST—Environmental Studies</i>	TRIO—TRIO
ENVS—Environmental Sciences	<i>WILD—Fish & Wildlife Science & Management</i>
EQST—Equine Studies	<i>WLDG—Welding</i>
<i>EQUH—Equine Horsemanship</i>	<i>WRIT—Writing</i>

CAMPUS OFFICES

Admissions	Short Center	7331
Advising	MH 214	7049/7050
Alumni	Roe House	7306
ASUMW Student Senate	SUB Basement	7211
Athletic Director	BARC 151	7509
Bark 'n' Bite	SUB	7998
Bookstore	SUB	7281
Business Services	Short Center	7101
Career Services	Library Basement	7143
Chancellor's Office	Roe House	7151
Conference & Events	Mathews 3 rd Floor	7566
Counseling/Student	Davis Hall	7565/appts
Cup, The	Library/STC Bsmt	7020
Curious Minds Child Care	By Heating Plant	7320
Dean of Students	Davis 208	7565
Dining Services Director	Mathews Basement	7228
Disability Services	Davis 208	7565
Facilities Services/Physical Plant	Facil Serv Bldg	7142
FAX/Main @ Mail Room	Short Center	406-683-7493
Field Experiences	MH 227	7636
Financial Aid	Short Center	7511
Foundation	Roe House	7306
Great Divide	BTB Basement	7635
Heating Plant	Heating Plant	7141
Honors Program	BH 322	7075
ITS Director	BH 124	7402
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Business Line	SUB Basement	7156
Request Line		7394
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Learning Center	LCL 006	7200
Library	Short/Library Bldg	7541
Mail Room	Short Center	7561
Marketing	Roe House	7301
Moodle Help Desk	STC 101	7163
Motor Pool	Heating Plant	7148
Office Simulation Center	BTB 113	7823
Outreach, School of	MH 115	7537
PE Complex Office	BARC 150	7220
Printing & Graphics Center	STC 002	7170
Provost/Vice Chancellor for Academic Affairs	MH 212	7115
Registrar	Short Center	7371
Road Scholar (formerly Elderhostel)	MH 115	7302
Student Affairs	Davis 208	7565
Traffic Control	Facil Serv Bldg	7142
Training Room	BARC 115	7329
TRIO Office	MH 215	7322
Veterans Affairs	Financial Aid	7511
Vice Chancellor for Academic Affairs/Provost	MH 212	7115
Vice Chancellor for Administration, Finance, & Student Affairs	Short Center	7031
Work Study Hire Cards	Business Services, Short Center	7347
Youth Challenge	Clark Hall 102A	7556