2014 Summer Session Calendar

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
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</tr>
</tbody>
</table>

- **AUG.**
- **JULY**
- **JUNE**
- **MAY**

- **First 6-week session & 12-week session begin**
- **Memorial Day Observed**
  - No classes
- **Second 6-week session begins**
- **Education Intersession begins**
- **Independence Day**
  - No classes
- **Education Intersession ends**
- **Second 6-week session ends**
- **Intersession ends**
- **12-week session ends**
Welcome to Summer Session 2014 at Montana State University! The MSU Summer Session program is committed to providing a variety of classroom, outdoor, and online opportunities for students to advance or complete their educational goals.

Within the pages of this bulletin you’ll discover an exciting mix of courses designed to meet the needs of a diverse audience. For example:

- If you work, or leave Bozeman for the summer, you can still begin or continue your MSU education by enrolling in one or more online courses starting on p. 35.
- Are you an incoming freshman? Jump-start your college career by fulfilling a core requirement or two; see the list of offerings beginning on p. 43.
- If you’re looking for something different this summer, browse through the special summer courses section starting on p. 48. You can earn college credit while studying subjects such as photography, wildlife, music, and more!
- Are you a post-baccalaureate student planning to apply to medical or dental school? MSU’s Summer Session offers a series of science and mathematics courses designed to meet the special academic needs of pre-med students. Information on this program begins on p. 45.
- Turn to p. 56 for a description of summer master’s degree programs. Designed to be completed in three to four summer sessions, these programs enable students to earn master of science degrees in mathematics education or in science education.

And when you’re not in class...

- Be sure to explore the friendly city of Bozeman and surrounding area (see p. 23) and partake in one or more special summer events (p. 64).

We invite you to join us in Bozeman this summer for a season of learning, adventure, and discovery!

David Singel
Associate Provost
Director, Summer Session

Please visit our Web site for the most current information:
www.montana.edu/summer

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Montana State University reserves the right to make changes in the regulations, courses and fees announced in this bulletin without advance notice.

For further information, contact the Office of Summer Session or the Director of Admissions, Montana State University, Bozeman, MT 59717.

Photo, front cover: Sphinx Mountain towers at 10,876 feet in the Madison Range southwest of Bozeman. © 2012 Craig W. Hergert · montanapanoramic.com

Back cover photo: MSU campus by Kelly Gorham.

Design and production: Kristen Drumheller, MSU Creative Services, University Communications
General Information

**SUMMER SESSION 2014 DATES**
First 6-week session ................. May 12–June 20
Second 6-week session ......... June 23–August 1
12-week session ..................... May 12–August 1
Intersession .......................... June 9–August 1*
Education Intersession ............. June 9–July 18
*Intersession is designed for courses of varying length

**FINAL EXAM DATES**
Summer Session courses conclude in their entirety on the dates given above. Final exams are generally administered on the last day of class.

**HOLIDAYS**
Memorial Day......................... Monday, May 26
Independence Day ................. Friday, July 4

**ADMISSION PROCEDURES**
Admission information is provided inside (see p. 6, 67)

**REGISTRATION**
Continuing students
and
Former students who have filed an Intent to Register form
(Registration for Summer Session same time as Fall Semester)
Please refer to the Fall Registration Handbook for instructions on how to register properly for SUMMER 2014 and FALL 2014.
March 17 ......................... Advising begins
March 24 ......................... Course Selection/Web registration for Summer 2014 (see p. 4). Web site: www.montana.edu
March 24-Aug. 29 ................. Course Selection/Web registration for Fall 2014 (see p. 5). Web site: www.montana.edu

All other students (new, transfer, etc.)
Please see p. 6 for admission instructions and p. 4 for registration information.

**HOUSING**
For on-campus housing information, see p. 17.

**FEE PAYMENT**
April 14-May 14, Student Accounts Office, 102 Montana Hall
A fee schedule is provided on p. 13.

**FOR MORE INFORMATION**
Office of Summer Session
212 Montana Hall
P.O. Box 172560
Montana State University
Bozeman, MT 59717-2560
Phone: (406) 994-7136
E-mail: summer@montana.edu
Web site: www.montana.edu/summer

**SUMMER SESSION STAFF**
David Singel
Associate Provost
Director, Summer Session

Anne Angermeyer
Program Coordinator
What’s New At MSU

This summer, look for additional offerings of high-demand fall and spring courses as well as the debut of several totally new courses.

ACTIVITIES COURSES

Try a new activity this summer and earn academic credit for it. Get involved and be active!

• ACT 115  
  Soccer  
  1 credit
• ACT 163  
  Race Training 5/10 K  
  1 credit

For additional activities courses, see the Special Summer Courses section on p. 48. Registration for activities courses are through the Registrar. For more information contact Abbey Keene, Recreational Sports and Fitness, (406) 994-6278 or abbey.keene@montana.edu.

THE ARTS

This mixture of new and established courses will challenge your creative mind!

• AMST 202RA  
  The Arts in America  
  3 credits
• ARTH 406  
  Roman Art and Architecture  
  3 credits
• ARTH 491  
  Special Topic: Art Now  
  3 credits
• ARTZ 491  
  Special Topic: New York Field Study  
  3 credits
• FILM 381  
  Studies in Film: The Musical  
  3 credits
• FILM 481  
  Advanced Studies in Film: Quentin Tarantino—The Cinema of Cool  
  3 credits
• FILM 494-01  
  Seminar: Film and Photoboarding  
  3 credits
• FILM 494-02  
  Seminar: After Effects Bootcamp  
  3 credits
• FILM 494-03  
  Seminar: Experimental Cinema  
  3 credits
• PHOT 494-01  
  Seminar: Small Town Documentary  
  3 credits
• PHOT 494-02  
  Seminar: Landscape Photography  
  4 credits
• PHL 327  
  Aesthetics and the Arts  
  3 credits

Information about the courses listed above can be found in the Special Summer Courses section beginning on p. 48 of this bulletin or in the MSU Course Catalog (www.montana.edu/wwwcat/courses/courses2.html) for more information about the courses listed above.

ENGINEERING COURSES

The following established courses have been offered previously during the academic year but for the first time will also be offered this summer.

• ECIV 331  
  Engineering Hydrology  
  2 credits
• EGEN 310R  
  Multidisciplinary Engineering Design  
  3 credits
• EMEC 103  
  CAE I – Engineering Graphics Communications  
  2 credits
• ETME 310  
  Machining and Industrial Safety  
  3 credits

Please refer to the MSU Course Catalog (www.montana.edu/wwwcat/courses/courses2.html) for more information about the courses listed above.
How to Register for Classes

Please note: Prior to registering for classes, former students must file an Intent to Register form with the Registrar’s Office; new students and summer-only students must apply for admission to MSU (see instructions beginning on p. 6 of this bulletin).

STUDENT CATEGORIES

Continuing Students
- Continuing students are those admitted to MSU and registered in courses during Spring Semester 2014.
- Continuing students are automatically admitted to Summer Session and may simply register in the same manner and at the same time as they do for Fall Semester 2014. The Summer registration alternate PIN (also referred to as “advisor code” or “registration code”) is the same number that continuing students have been assigned to use for Fall registration.
- Advising for Summer Session begins Monday, March 24 and registration begins Monday, March 24 on the Web (refer to the Fall 2014 Registration Handbook for registration timetable).

Former Students
- Former students are those who have previously been admitted to MSU and paid fees, but who did not attend or withdrew from Spring Semester 2014.
- Former students must file an Intent to Register form (see access instructions, p. 67) with the Registrar’s Office. Former students should use the online Intent to Register through MyInfo. Registration information will be sent via the email address provided on the Intent to Register form.

New Students
- New students are those who have not previously been admitted to MSU and who wish to enroll in the University as degree-seeking students.
- Before new students are allowed to register for courses, they must apply for admission and be accepted into the University (see admissions procedures on p. 6 of this bulletin).
- Students should contact the AAC at (406) 994-3532 or advising@montana.edu to schedule an advising appointment (these can be done in person, or via phone or Skype).
- Following the advising appointment, students will be given their registration “PIN” (or code) along with instructions on how to register for Summer Session courses.
- Students are required to attend an Orientation session before registering for Fall Semester 2014 courses. The AAC advisor will put a hold on the student’s account so they cannot register for fall classes until they attend an Orientation session.
- Transfer students may select Orientation Option 1 (spend one weekday on campus between late April and mid-August) or Option 2 (attend the Transfer Student Orientation Program on Wed., Aug. 20). Freshman students may select a summer or fall Orientation session.
- For more information about MSU Orientation, or to register for an Orientation session, please go to http://www.montana.edu/admissions/orientation/.

Graduates—May register on the Web (instructions will be included with your admission acceptance letter from the Graduate School).

2) Check Your Registration Status
Check your registration status on the Web by going to the MSU home page (www.montana.edu) and following these links: MyInfo; Enter Secure Area; Login (follow instructions on that page); Student Services; Registration; Student Detail Schedule.

3) Obtain Your Fee Summary
Obtain your fee summary on the Web by going to the MSU home page (www.montana.edu) and following these links: MyInfo; Enter Secure Area; Login (follow instructions on that page); Student Services; Student Records; Electronic Billing and Payment.

4) Pay Your Fees
Fee payment is due by the third day of class and may be done online, by mail, or in person at the Student Accounts cashier’s window, Montana Hall. For more information regarding payment of fees, please see p. 13-14 of this bulletin.

Summer-Only and Other Non-Degree Students
- Summer-only students are those who have not previously been admitted to MSU and who wish to attend just the summer term. A typical summer-only student is one who seeks to earn MSU credits during Summer Session and then transfer those credits to their home campus elsewhere. Other summer-only students may include non-degree graduates or practicing teachers who wish to earn credits for purposes of recertification or salary advancement.
- Before summer-only students are allowed to register for courses, they must apply for admission and be accepted into the University (see admission procedures on p. 6 of this bulletin).
- Registration procedure
  1) Undergraduates
- Advising for new Summer Session students will begin Monday, April 14. All new students will be advised by the Academic Advising Center (AAC).
- Students should contact the AAC at (406) 994-3532 or advising@montana.edu to schedule an advising appointment (these can be done in person, or via phone or Skype).
- Following the advising appointment, students will be given their registration “PIN” (or code) along with instructions on how to register for Summer Session courses.
- Students are required to attend an Orientation session before registering for Fall Semester 2014 courses. The AAC advisor will put a hold on the student’s account so they cannot register for fall classes until they attend an Orientation session.
- Transfer students may select Orientation Option 1 (spend one weekday on campus between late April and mid-August) or Option 2 (attend the Transfer Student Orientation Program on Wed., Aug. 20). Freshman students may select a summer or fall Orientation session.
- For more information about MSU Orientation, or to register for an Orientation session, please go to http://www.montana.edu/admissions/orientation/.

Graduates—May register on the Web (instructions will be included with your admission acceptance letter from the Graduate School).

2) For instructions on how to check your registration status, obtain your fee summary, and pay your fees, see items 2, 3 and 4 under “New Students” (left).
# FALL SEMESTER 2014 REGISTRATION

Please refer to the Fall 2014 Registration Handbook for instructions on how to register properly for Fall 2014. All students must meet with an academic advisor in order to be eligible to register for Fall classes.

- **Continuing Students**
  Continuing students may register for Fall Semester from March 24 through August 29.

## ADVISING SERVICES FOR NEW STUDENTS

New students are encouraged to contact the associate/assistant dean or other official representative of their college, or the Academic Advising Center, for assistance with course selection, connecting with an adviser, or for help with other questions.

<table>
<thead>
<tr>
<th>Department</th>
<th>Contact Information</th>
</tr>
</thead>
</table>
| Agriculture                       | Nora Smith, Ass’t. Dean for Academic Programs  
202 Linfield Hall  
(406) 994-5745  
norasmith@montana.edu |
| Arts and Architecture             | Erica Dungan  
217 Cheever Hall  
(406) 994-4982 |
| Business                          | Chris Lamb, Ass’t. Dean  
338 Reid Hall  
(406) 994-4681 · clamb@montana.edu |
| Education, Health & Human Development | Dept. of Education Advising Center  
132 Reid Hall  
(406) 994-1880  
cmeldahl@montana.edu |
|                                   | Dept. of Health & Human Development Advising Center  
121 Hosaeus PE Complex  
(406) 994-4001  
hhd@montana.edu |
| Engineering                       | Christine Foreman, Assoc. Dean  
212 Roberts Hall  
(406) 994-2272  
egrinfo@coe.montana.edu |
| Letters and Science               | Melody Zajdel, Assoc. Dean  
2-205 Wilson Hall  
(406) 994-4288  
zajdel@montana.edu |
| Nursing                           | Debbie McCray, Undergraduate Student Services Coordinator  
111 Sherrick Hall  
(406) 994-2660  
dmccray@montana.edu |
| University Studies                | Diane Donnelly, Director  
130 Gaines Hall  
(406) 994-3532 · advising@montana.edu |
| Health Professions Advising       | Sheila Nielson-Preiss, Director  
317 Leon Johnson Hall  
(406) 994-1670 · hpa@montana.edu |
| The Graduate School               | Donna Negaard, Student Services Mngr.  
108 Montana Hall  
(406) 994-4145  
gradschool@montana.edu |
| Academic Advising Center          | 130 Gaines Hall  
(406) 994-3532  
advising@montana.edu |

- **New Undergraduate Non-Degree Students**
  New undergraduate non-degree students who attend Summer Session and who would like to continue as non-degree students during Fall Semester may select courses during their summer attendance.

  Undergraduate non-degree students who attend Summer Session and who would like to be admitted as degree-seeking undergraduates for Fall Semester must meet the requirements of admission as outlined in the University Course Bulletin. For information regarding admission procedures, students should contact the Office of Admissions, 201 Strand Union, (406) 994-2452 or 1-888-MSU-CATS, admissions@montana.edu, or visit the Office of Admissions Web page at www.montana.edu/admissions.
How to Apply for Admission

Information for New Students and Summer-Only Students

Please note: Continuing students are automatically admitted to Summer Session. Former students are admitted to the University but must file an Intent to Register form (see access instructions, p. 67) with the Registrar’s Office.

**ADMISSION APPLICATION PRIORITY DEADLINES FOR SUMMER SESSION 2014**

<table>
<thead>
<tr>
<th>Student Category</th>
<th>First 6-Week Session &amp; Full 12-Week Session</th>
<th>Second 6-Week Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Students (degree-seeking undergraduates)</td>
<td>May 1, 2014</td>
<td>June 7, 2014</td>
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<tr>
<td>New Students (degree-seeking graduates)</td>
<td>based on departmental deadlines</td>
<td>based on departmental deadlines</td>
</tr>
<tr>
<td>Summer-Only and other Non-Degree Students (non-degree undergraduates and graduates)</td>
<td>May 1, 2014 (UG) May 12, 2014 (Grad)</td>
<td>June 7, 2014 (UG) June 23, 2014 (Grad)</td>
</tr>
<tr>
<td>International Student Applications</td>
<td>Feb. 1, 2014 (final deadline)</td>
<td>Feb. 1, 2014 (final deadline)</td>
</tr>
</tbody>
</table>

**NEW STUDENTS**

**Freshman Degree-Seeking Undergraduates are:**

- Pursuing a bachelor’s degree at MSU
- After completion of high school or its equivalent, have attempted fewer than 12 college-level credits
- Required to submit a final, official high school transcript (sent directly to MSU from the student’s high school) and scores sent directly from ACT or SAT (students who graduated more than three years ago are not required to submit ACT or SAT scores)

Students who did not complete high school are required to submit official GED scores and scores from ACT or SAT (students who would have graduated more than three years ago are not required to submit ACT or SAT scores).

**Admission application procedure:**

1. Complete the MSU Application for Admission (available online at www.montana.edu/wwwcat/appopts.html) or
   Complete a paper application (available from the MSU Admissions Office: (406) 994-2452 or admissions@montana.edu)
2. Submit the application along with the application fee ($36 online or $30 paper)
3. Submit required documents (transcripts and/or test scores)
4. Submit record of immunizations and tuberculosis (TB) screening form to Student Health Service (see “Immunization Requirements, next page).

The Office of Admissions will contact you by mail regarding the status of your admission within two weeks of the receipt of your application.

**Transfer Degree-Seeking Undergraduates are:**

- Pursuing a bachelor’s degree or second bachelor’s degree at MSU
- Graduated from a high school or its equivalent, and have attempted 12 or more college-level credits following high school graduation
- Required to have complete and official transcripts sent directly to MSU from each college or university attended
- In good standing at the previous institution(s)

**Admission application procedure:**

1. Complete the MSU Application for Admission (available online at www.montana.edu/wwwcat/appopts.html) or
   Complete a paper application (available from the MSU Admissions Office: (406) 994-2452 or admissions@montana.edu)
2. Submit the application along with the application fee ($36 online or $30 paper)
3. Submit required official transcripts from EACH college or university (sent directly from the institution to MSU)
4. Submit record of immunizations and tuberculosis (TB) screening form to Student Health Service (see “Immunization Requirements, next page).

The Office of Admissions will contact you by mail regarding the status of your admission within two weeks of the receipt of your application.

**Degree-Seeking Graduate Students are:**

- Pursuing a graduate degree at MSU (see p. 11-12 of this bulletin for more information regarding graduate programs)
- College graduates, currently holding at least a bachelor’s degree

**Admission application procedure:**

1. Complete the Application for Graduate Admission online at this link: www.montana.edu/gradschool/apply.html. This online application process allows you to find out the application procedures for the department you are applying to and allows you to track your application process, from materials received by the department to the committee review process. Paper applications are provided upon request.
Admission application procedure:
• May not represent the University in
• Are not eligible to receive financial aid
• Are advised by the Academic Advising
• Do not plan to pursue a bachelor's degree
• Do not currently hold a bachelor's degree

Non-Degree Undergraduates:
• College graduates currently holding at
least a bachelor's degree
• Taking any courses offered by the
university (undergraduate or graduate
level) other than restricted departmental
courses. They are not eligible for
financial aid. (Note: only 9 graduate
level credits are allowed to be trans-
ferred into a degree seeking program)

The Graduate School will contact
you by mail regarding the status of your
admission within one week of the receipt
of your application.

Non-Degree Graduates are:
• Non-Degree Undergraduates:
  • Do not currently hold a bachelor's degree
  • Do not plan to pursue a bachelor's degree
    at MSU
  • Are advised by the Academic Advising
    Center
  • Are not eligible to receive financial aid
  • May not represent the University in
    intercollegiate athletic competition

Admission application procedure:
1. Complete the Application for Graduate
   Admission online at this link: www.montana.edu/gradschool/apply.html.
   This online application process allows you to track your application
   process from materials received by the department to the committee review process.
   Paper applications are provided upon request.
2. Pay: $60 application fee
3. Request that an official transcript from
   the institution granting your bachelor's degree be sent to the Graduate School
   at MSU at the time you submit your
   application. Acceptance to MSU as a
   non-degree graduate student is auto-
   matic upon proof of a baccalaureate
degree. MSU students do not need
to provide MSU transcripts.
4. Submit record of immunizations and
   tuberculosis (TB) screening form to
   Student Health Service (see “Immu-
   nization Requirements, right).
FOR MORE INFORMATION ABOUT ADMISSION, CONTACT:

Office of Admissions
(406) 994-2452 or 1-888-MSU-CATS
admissions@montana.edu
www.montana.edu/admissions

The Graduate School
(406) 994-4145
1-800-255-7962
gradschool@montana.edu
www.montana.edu/gradschool

Office of Summer Session
(406) 994-7136
summer@montana.edu
www.montana.edu/summer

SERVICES FOR STUDENTS WITH DISABILITIES

Students desiring accommodations for a disability may request services through:
   Disabled Student Services
   180 Strand Union
   (406) 994-2824
   TTY: (406) 994-6701
   byork@montana.edu
   www.montana.edu/disability

Enrollment in Montana State University is open to all students regardless of race, sex, religion, disability, age, national or ethnic origin, or marital status.
Academic Information

Students are held responsible for knowledge of the regulations governing registration, drop/add, withdrawal and other procedures outlined in this bulletin, in the MSU Course Bulletin, and in any special registration instructions which may be issued on a semester basis.

DROP/ADD PROCEDURES

Deadline dates for dropping and adding courses are listed in the table below. For more information visit the MSU Online Catalog Drop/Add Regulations and Procedures page at www.montana.edu/wwwcat/register/register1.html.

<table>
<thead>
<tr>
<th>DROP/ADD SCHEDULE</th>
<th>First 6-week</th>
<th>Inter-</th>
<th>Second 6-week</th>
<th>12-week</th>
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<tbody>
<tr>
<td>Instruction Begins</td>
<td>Monday May 12</td>
<td>Monday</td>
<td>Monday June 23</td>
<td>Monday May 12</td>
</tr>
<tr>
<td>Last day to add online</td>
<td>Tuesday May 13</td>
<td>Wednesday June 11</td>
<td>Tuesday June 24</td>
<td>Thursday May 15</td>
</tr>
<tr>
<td>Last day to add; Pass/Fail petitions due</td>
<td>Thursday May 15</td>
<td>Monday June 16</td>
<td>Thursday June 26</td>
<td>Wednesday May 21</td>
</tr>
<tr>
<td>Last day to drop online</td>
<td>Thursday May 15</td>
<td>Monday June 16</td>
<td>Thursday June 26</td>
<td>Wednesday May 21</td>
</tr>
<tr>
<td>Drop without grade during this time</td>
<td>May 12-19</td>
<td>June 9-18</td>
<td>June 23-30</td>
<td>May 12-28</td>
</tr>
<tr>
<td>W grades only for drops during this time</td>
<td>May 20-June 9</td>
<td>June 19-July 18</td>
<td>July 1-21</td>
<td>May 29-July 18</td>
</tr>
<tr>
<td>No drops beginning this date</td>
<td>Tuesday June 10</td>
<td>Monday July 21</td>
<td>Monday July 21</td>
<td>Monday July 21</td>
</tr>
<tr>
<td>Classes End</td>
<td>Friday June 20</td>
<td>Friday August 1</td>
<td>Friday August 1</td>
<td>Friday August 1</td>
</tr>
</tbody>
</table>

*Intersession designed for courses of varying length. Courses that do not conform to session beginning or ending dates and are typically short in length will be assigned appropriate deadlines not specified above.

GRADE REPORTS AND TRANSCRIPTS

Grades for all sessions that end by August 1 will be processed and available on August 6, and will be posted on the Web at MyInfo.

Transcripts of summer work can be processed beginning August 8. Students who want official transcripts sent to another institution or to their place of employment need to request an official transcript to be sent after their grade is posted. For more information visit the Registrar’s Web page at www.montana.edu/registrar.

IMPROPER REGISTRATION

A student who attends a class without being properly registered for it will not receive credit.

TAKING COURSES FOR ZERO CREDIT

Auditor

Registered students may, with the permission of the instructor, enroll in a course as auditors and earn zero credit. No grade will be given, and such a course may not be challenged at a later date for credit. Students must declare their intent to audit by the third class session. Students who audit pay the same fees as students enrolled for credit.

THE GRADUATE SCHOOL

Summer Dates and Deadlines

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 12</td>
<td>Instruction begins</td>
</tr>
<tr>
<td>May 15</td>
<td>Last day for international applications for fall semester (if this is different than your department, follow your department’s date)</td>
</tr>
<tr>
<td>May 26</td>
<td>Memorial Day holiday (no classes; offices closed)</td>
</tr>
<tr>
<td>June 10</td>
<td>Last day for graduate students to file “Application for Advanced Degree”</td>
</tr>
<tr>
<td>June 20</td>
<td>First 6-week session ends</td>
</tr>
<tr>
<td>June 23</td>
<td>Second 6-week session begins</td>
</tr>
<tr>
<td>July 4</td>
<td>Independence Day holiday observed (no classes; offices closed)</td>
</tr>
<tr>
<td>July 14</td>
<td>Last day for master’s comprehensive or doctoral examination Last day for approval of thesis, dissertation, or professional paper (if professional paper is submitted to the library) by formatting advisor</td>
</tr>
<tr>
<td>August 1</td>
<td>Intersession ends; last day of semester; classes end for 12-week and second 6-week sessions; last day to withdraw application for advanced degree</td>
</tr>
</tbody>
</table>

RELEASE OF INFORMATION

Montana State University is in compliance with the Family Educational Rights and Privacy Act of 1974 (referred to as the “Buckley Amendment”) and the Montana Privacy Act. Briefly, these laws establish specific guidelines concerning the release of information and the students’ privilege to inspect and review their own education records.
# Graduate Programs

## GRADUATE DEGREES CONFERRED

### Master of Science
- Agricultural Education **
- Animal & Range Sciences
- Applied Economics
- Biological Sciences
  - Cell Biology & Neuroscience
  - Ecology
- Chemical Engineering
- Civil Engineering
- Computer Science
- Earth Sciences
- Electrical Engineering
- Engineering Management, Professional M.S.
- Entomology
- Environmental Engineering
  - Chemical & Biological
  - Civil
- Fish & Wildlife Management
- Health & Human Development
  - Counseling
  - Exercise & Nutrition Sciences
  - Food, Family & Community Health Sciences
  - Family Financial Planning *
- Health Sciences
- Immunology & Infectious Disease
- Industrial & Management Engineering
- Land Rehabilitation
- Land Resources & Environmental Sciences (* option as well)
- Mathematics
  - Mathematics
  - Mathematics Education
- Mechanical Engineering
- Microbiology
- Neuroscience
- Physics
- Plant Pathology
- Plant Science
- Psychological Science
- Science Education *
- Statistics

### Other Master’s Degrees
- Master of Architecture (MArch)
- Master of Arts in American Studies
- Master of Art in English (M.A.)
- Master of Arts in Art History (M.A.)
- Master of Arts in History (M.A.)
- Master of Arts in Native American Studies (M.A.) **
- Master of Fine Arts in Science & Natural History Film Making (M.F.A.)
- Master of Fine Art in Art (M.F.A.)
- Master of Education (M.Ed.)

### Doctor of Philosophy (Ph.D.)
- American Studies
- Animal & Range Sciences
- Biochemistry
- Biological Sciences
  - Cell Biology & Neuroscience
  - Ecology
- Chemistry
- Computer Science
- Earth Science
- Ecology & Environmental Sciences
  - Dept. of LRES
  - Dept. of Ecology
- Engineering
  - Applied Mechanics
  - Chemical
  - Civil
  - Electrical & Computer
  - Environmental
    - Chemical & Biological
    - Civil
  - Industrial
  - Mechanical
- Fish & Wildlife Biology
- History
- Immunology & Infectious Disease
- Mathematics
  - Mathematics
  - Mathematics Education
- Microbiology
- Neuroscience
- Nursing
  - Practice Family/Individual
  - Psych/Mental
- Physics
- Plant Science
  - Plant Genetics
  - Plant Pathology
- Statistics

### Other Advanced Degrees
- Education Specialist (Ed.S.) Education Administration
- Doctor of Education (Ed.D.)
  - Adult & Higher Education
  - Curriculum & Instruction
  - Education Administration

### Certificate Programs
- Addiction Counselor
- Applied Statistics
- Chemistry
- College Teaching
- Earth Science
- Educational Leadership
  - Principal Endorsement
  - Superintendent Endorsement Elementary School
- Library Media
- Life Science
- Teacher Certification (* online through NPTT)
- Licensed Addiction Counselor
- Manufacturing Best Practices
  - Process
  - Systems
- Montana Dietetic Internship
- Native American Studies
- Physics
- Post Baccalaureate Pre-Medical
- Professional Practice of Architecture Science & Engineering
  - Business Management
  - Project Management

* online program
** online or onsite program
GRADUATE ADMISSIONS

Students may be admitted through two different pathways: either as a degree seeking or a non-degree seeking student. In a degree seeking status, a student can be admitted in either a full or provisional standing. In a provisional standing, there may be stipulations placed on the admittance written into the acceptance letter, developed by the department and the Graduate School.

Non-degree seeking graduate students are those not seeking a graduate degree, and may enroll as non-degree seeking students.

ADMISSION POLICY AND REQUIREMENTS

Persons eligible to apply as degree-seeking graduates must 1) hold a four-year baccalaureate degree from an accredited institution and 2) have demonstrated potential for graduate study, as indicated on the departmental website. Academic record is one such indicator of potential. The standard is a cumulative B average (3.0-4.0) or better of undergraduate or graduate work. Some departments may require a master’s degree prior to admission to a doctoral program.

The applicant has the option of applying online through a completely trackable application service (www.montana.edu/gradschool/apply.html). A completed application will include: a $60 non-refundable application fee, official transcripts form each university attended (applicant’s responsibility to initiate request), official entrance exams (requested by applicant from testing agency), and recommendation letters from qualified individuals who can evaluate the applicant’s academic ability. There may be additional materials to be submitted per departmental requirements or if applicant is an international student (see “English Proficiency Exams” and “Financial Certificate.” Paper applications may also be requested. Incomplete applications will not be considered. Note: application deadlines vary by department; check departmental deadlines for specifics.

NON-DEGREE STATUS

Non-degree students are those who 1) do not wish to pursue a graduate program leading to an advanced degree, 2) do not meet requirements for full or provisional admission, or 3) whose formal application is pending final action. In the latter instance, a non-degree student who secures graduate admission will be converted to the appropriate status at the beginning of the next academic term. A non-degree student who applies for graduate admission but is denied or who fails to submit complete graduate application materials, will be continued in non-degree status. International applicants may obtain non-degree status but must meet additional requirements.

A maximum of nine (9) credits taken in non-degree status may be used toward a graduate program.

ENTRANCE EXAMS

Each department sets its own entrance exam requirements. Please contact the department to which you are applying for more information.

ENGLISH PROFICIENCY EXAMS

International applicants must submit TOEFL or IELTS Scores. These are the minimum admission scores; some departments may require higher scores. Minimum score to teach: TOEFL 580, IELTS 7.0; to be a lab assistant or discussion leader: TOEFL 565, IELTS 7.0; or to be a paper grader: TOEFL 550, IELTS 7.0.

TEST OF SPOKEN ENGLISH (TSE) OR SPEAK TEST

All new international students who are assigned graduate teaching assistantships are required to take the Test of Spoken English from ETS or the SPEAK Test upon arrival at MSU through the ACELI. Minimum score to teach is 50; minimum to be a paper grader is 45.

American Cultural Exchange Language Institute

The American Cultural Exchange Language Institute (ACELI) at Montana State University is an academic preparation program in seven levels.

Through enrollment, the ACELI prepares international students for the TOEFL exam.

For detailed information, see The Graduate School at MSU Web page at www.montana.edu/gradschool
**2014 Summer Fees**

**FEES as of January 2014**

Fees are based on a per credit-hour rate as approved by the Montana Board of Regents. The fee schedule is also posted at www.montana.edu/summer/fees.shtml.

**DETERMINING YOUR FEES**

Registration, tuition and building fees are charged to all students (included in the tuition fee table to the right). Health fees, activity fees and intramural fees are included; the amount depends on attendance for the 6-week sessions, intersession, or the 12-week session. Some courses also require materials or special use fees; such fees are assessed at registration. The schedule to the right lists the fees up to 12 credits for all sessions. If the number of credits exceeds 12, the rate remains the same as 12 credits.

**OTHER FEES**

- **New Student Fee:** All new students pay a one-time New Student Fee, included in their fees during their first semester of attendance at MSU. The fee is $65.00 for new freshmen and $50.00 for new transfer students.

- **Auditors:** Regularly enrolled students who enroll for courses without credit (audit) pay the same fees as students enrolled for credit.

- **Non-Matriculated Students (Listeners):** Any adult person not regularly enrolled at MSU may, with the permission of the instructor, register for a non-laboratory class as a non-matriculated student upon the payment of the same fees as regularly enrolled in-state students. The person so registering may not participate in class discussion nor take examinations. Applications for non-matriculated enrollment should be made through the Registrar, who will provide a Non-Matriculated Attendance Form for acceptance by the instructor. Activity courses may not be taken by non-matriculated students.

**OBTAINING YOUR FEE SUMMARY**

Properly registered students may obtain their fee summary on the Web by going to the MSU home page (www.montana.edu) and following these links: MyInfo; Enter Secure Area; Login (follow instructions on that page); Student Services; Student Records; Electronic Billing and Payment.

### UNDERGRADUATE AND POST-BACCALAUREATE

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<th>Non-Resident</th>
<th>Resident</th>
<th>Non-Resident</th>
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### GRADUATE

<table>
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<td>$3,783.75</td>
<td>$11,078.55</td>
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</tbody>
</table>

Students taking 7 credits or more are charged health, dental, activity, and intramural fees (included in the proposed fee tables, above). **Note:** All fees subject to change with Montana Board of Regents approval.
FEE PAYMENT
Fee payment for Summer Session will take place April 14 through May 14. Payments may be made using one of the following options:

- **Online** (credit card payments and E-checks) under MyInfo (Login, select Electronic Billing and Payment)
- **Mail** payment to Student Accounts, P.O. Box 172640, MSU, Bozeman, MT, 59717-2640
- **Drop** payment in the student payment box at the Student Accounts cashier’s window, Montana Hall

Please make checks payable to Montana State University.

Bill confirmations for students who have zero or credit balances may be done on the Web under MyInfo (Login, select Electronic Billing and Payment)

Fee payments are due within three days from the beginning date of any given course. Students who do not pay fees by this deadline may have their registration cancelled for that course.

**Fee Payment Deadlines**
- First 6 weeks—May 14
- Second 6 weeks—June 25
- Full 12 weeks—May 14
- Intersession—June 11

FEE REFUNDS
Refunds for financial aid in excess of your university bill for Summer Session will be available after May 14. Refunds for the balance of funds will be by Direct Deposit, or mailed to the student if the student has not signed up for Direct Deposit, provided you have completed all necessary documentation and signed all promissory notes and returned these materials to the Financial Aid Office. Be sure your address(es) is current at the Student Accounts Office, Registrar’s Office or Financial Aid Office. A refund will not be processed until bill confirmation has been done with the Student Accounts Office.

- **Refunds for Drop>Adds**
  Courses added are retroactive to the first day of class instruction for fee assessment. No refund of fees will be made after the sixth day of instruction in a 6-week or intersession, or after the 12th day of instruction in the 12-week session, including dropped courses.

- **Refunds for University Withdrawals**
  After the beginning of classes, fees are refunded according to the date the student completes the university withdrawal form received from the Office of Student Success.

The following special considerations will determine the amount of refund due, if any, for university withdrawal:

All refunds are based on the date of university withdrawal; whether or not a student attended class(es) has no bearing on the refund. Refunds are further determined by enrollment in a 6-week, intersession, or 12-week session.

Short courses are a part of the Summer Session and included in the total credit load for fee assessment and refund determination. No refund is made for dropping a course of two weeks or less in duration unless it is dropped prior to the beginning of the class.

VETERAN EDUCATIONAL BENEFITS
Veterans, dependents, and members of the Guard/Reserves who are eligible for VA educational benefits; also veterans who are Montana residents and who served on active duty during specified periods of conflict and have exhausted their GI Bill benefits may be eligible for the MUS Veteran Tuition Waiver, please contact:

Veteran Support Center
185 Strand Union
Montana State University
Bozeman, MT 59717
(406) 994-3661
vets@montana.edu
www.montana.edu/veteran
WITHDRAWAL REFUND SCHEDULE

The following withdrawal refund schedule indicates the percentage of fees refunded according to the day of the session:

6-Week Sessions and Intersession

<table>
<thead>
<tr>
<th>Day of Instruction</th>
<th>Percentage of Fees Refunded*</th>
</tr>
</thead>
<tbody>
<tr>
<td>First 6-Week Session</td>
<td></td>
</tr>
<tr>
<td>Registration day (if prior to first day of session)</td>
<td>100%</td>
</tr>
<tr>
<td>May 12-13</td>
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</tr>
<tr>
<td>May 14-15</td>
<td></td>
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<tr>
<td>May 16-19</td>
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</tr>
<tr>
<td>After May 19</td>
<td></td>
</tr>
<tr>
<td>Second 6-Week Session</td>
<td></td>
</tr>
<tr>
<td>Registration day (if prior to first day of session)</td>
<td></td>
</tr>
<tr>
<td>June 23-24</td>
<td>90%</td>
</tr>
<tr>
<td>June 25-26</td>
<td>75%</td>
</tr>
<tr>
<td>June 27-30</td>
<td>50%</td>
</tr>
<tr>
<td>After June 30</td>
<td></td>
</tr>
<tr>
<td>Intersession</td>
<td></td>
</tr>
<tr>
<td>Registration day (if prior to first day of session)</td>
<td>100%</td>
</tr>
<tr>
<td>June 9-10</td>
<td></td>
</tr>
<tr>
<td>June 11-12</td>
<td></td>
</tr>
<tr>
<td>June 13-16</td>
<td></td>
</tr>
<tr>
<td>After June 16</td>
<td></td>
</tr>
</tbody>
</table>

12-Week Session

<table>
<thead>
<tr>
<th>Day of Instruction</th>
<th>Percentage of Fees Refunded*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration day (if prior to first day of session)</td>
<td>100%</td>
</tr>
<tr>
<td>May 12-15</td>
<td>90%</td>
</tr>
<tr>
<td>May 16-21</td>
<td>75%</td>
</tr>
<tr>
<td>May 22-28</td>
<td>50%</td>
</tr>
<tr>
<td>After May 28</td>
<td>No refunds</td>
</tr>
</tbody>
</table>

*Does not include Registration Fee, which is non-refundable.

Financial Aid

Office of Financial Aid Services
Room 183 Strand Union Building
(406) 994-2845
www.montana.edu/wwwfa

SUMMER SESSION FINANCIAL AID

Applying for Summer Session 2014 financial aid requires two separate application processes:
1) You must complete a 2013-2014 Free Application for Federal Student Aid (FAFSA)
2) You must complete an MSU Summer Supplemental Application

Completing the Free Application for Federal Student Aid (FAFSA)
Your completed 2013-2014 FAFSA must be received by the federal processor no later than June 30, 2014. This is an absolute deadline. Applications received by the processor after June 30 will not be considered for summer funds. If you applied for federal financial assistance for Fall 2013 or Spring 2014 semesters, you already have completed a 2013-2014 FAFSA.

Complete the FAFSA electronically at www.fafsa.ed.gov.

Completing the MSU Summer Supplemental Application
If your FAFSA was received by the federal processor by June 30, 2014, you may apply for summer aid by completing the MSU Summer Supplemental Application. The priority date for summer financial assistance is March 31, 2014. Your Summer Supplemental Application will be reviewed only if information from your 2013-2014 FAFSA is available. The last day to apply for summer aid is June 30, 2014. Requests for summer term financial aid will not be accepted after this date.

Copies of the Summer Supplemental Application are available at the Office of Financial Aid Services or by clicking on the Forms link on the Financial Aid Services Web site at www.montana.edu/wwwfa.

FINANCIAL AID DEADLINES FOR SUMMER SESSION 2014

March 31, 2014 Priority date to submit MSU Summer Supplemental Application Form
June 30, 2014 Final date to submit MSU Summer Supplemental Application Form
June 30, 2014 Final date for 2013-2014 FAFSA to arrive at the federal processor

Applications for Summer Session financial aid will not be accepted after the final date.
Minimum Credit Requirements for Summer Financial Aid

- 6 credits  Required to receive any financial aid
- 6 credits  Required to receive 100% of your loan and 50% of your grant
- 12 credits  Required to receive 100% of all types of financial aid

Student Loans
Eligibility for a student loan is dependent upon the cost of summer attendance and the amount borrowed during the academic year. You must be enrolled for a minimum of 6 credits to receive loan funds. Loan proceeds will be applied to your University bill.

Confirming Your Bill
You must confirm your bill (pay fees) for Summer Session with the Student Accounts Office by the published deadline. If you fail to do this, it will be assumed you are not attending Summer Session. This will result in both your classes and your financial aid being cancelled. Reinstatement of classes or financial aid will be based on availability at the time reinstatement is requested.

Refund Checks
Your University bill will reflect charges due for the semester. Provided you meet all of the qualifications to receive financial aid funds, any scholarship, grant, or loan funds awarded to you will be automatically credited to your University student account to be applied to the amount due for the semester.

Work-Study awards or private checks received by the University but payable to you will not be reflected as a credit on your bill.

If your financial aid exceeds your University charges you will be refunded the difference by the Student Accounts Office provided you meet all eligibility requirements. Refunds are generated by the Student Accounts Office as soon as possible after the start of summer classes.

The Student Accounts Office will release a refund when the following requirements have been met:

1. You have completed and returned all required financial aid documents and promissory loan notes to the Office of Financial Aid Services.
2. You have confirmed your bill at the Student Accounts Office.

For questions regarding the amount and timing of your refund, contact: Student Accounts Office Room 102 Montana Hall (406) 994-1991

Satisfactory Academic Progress
You must meet the Satisfactory Academic Progress Policy standards in order to be eligible for financial assistance. This policy is published and available at the Office of Financial Aid Services or online at www.montana.edu/wwfa/.

Short Term Loans
This is a loan which permits a student, who may be experiencing temporary difficulties, to borrow small sums of money for a short period of time. No collateral is required for a short-term loan although the student must identify a reliable source of repayment and pay a $30 loan application fee. In addition, a student must have a cumulative grade-point average of 2.0 or better at MSU, be enrolled for at least six credits as a degree-seeking student, and have a satisfactory repayment record with respect to any previous loan(s) received.

The University reserves the right to reject or decline any application, to determine the amount and a date of repayment for any loan approved, and to require a guarantor. Applications and other information regarding the short-term loan program may be obtained from the Office of Financial Aid Services. Allow a minimum of two working days to process a short-term loan application.

Book Loans
This loan is designed to assist students with money to buy books at the MSU Bookstore before aid refunds are distributed. The Office of Aid Services must verify that each student requesting a book loan has adequate funds, after University charges are paid, to cover the costs of the loan. Funds borrowed are deposited to the student’s CatCard no earlier than 10 days prior to the beginning of the term. When the student’s financial aid is disbursed, it is applied to the book loan as well as to a non-refundable loan processing fee of $30.00. This loan may be requested from the Office of Financial Aid Services.

FINANCIAL AID FOR FALL/SPRING SEMESTERS 2014-2015
You must complete the 2014-2015 Free Application for Federal Student Aid (FAFSA) in order to be considered for financial assistance for 2014 Fall Semester and/or 2015 Spring Semester.

The following dates apply:

March 1, 2014 Priority filing date for 2014-2015 FAFSA.

Nov. 15, 2014 Final filing date for 2014-2015 FAFSA for 2014 Fall Semester aid

March 31, 2015 Final filing date for 2014-2015 FAFSA for 2015 Spring Semester aid

Financial aid applications for Fall and Spring Semesters will not be accepted after the final dates.

Student Financial Aid Status
Financial aid status of individual students is available online through MyInfo. You can check your overall financial aid status including outstanding requirements and holds, Satisfactory Academic Progress, individual cost of attendance, award information, and account information regarding charges and payments from the Student Accounts Office. The Internet address is www.montana.edu (MSU Home Page). Links under MyInfo will take you to the online student information system.

General Financial Aid Information
General information pertaining to financial aid may be obtained online at www.montana.edu/wwfa or by calling Financial Aid Services at (406) 994-2845.
Summer Housing and Meals

RESIDENCE HALLS & SUITES

Residence Life/University Food Service
Hedges Complex
Hours: 8:00 a.m.-5:00 p.m., Monday-Friday (closed weekends and all state and federal holidays)
(406) 994-2661
housing@montana.edu
www.montana.edu/reslife

*All residence halls have a $10 Social Fee established by the Residence Hall Association, which is assessed in conjunction with room and board payments each semester. The Social Fee is assessed to every student living in the residence halls and is nonrefundable. Room and Board prices include ResNet Internet service.

** In order to be eligible for the 12-month housing contract, students must have lived in the residence halls during spring semester 2014 and have a 2014-2015 housing application on file.

Rates will be prorated accordingly for students who are here for shorter or longer sessions. Early cancellation of contract (either summer or fall) may result in penalties.

Credit Requirements
Students enrolled in the 6- and 12-week sessions must be registered for a minimum of three credits to be eligible to live in the residence halls. Students participating in the “12-month contract” do not need to reside in the halls.

Summer Housing Applications and Contracts
Applications will be available starting February 1 on the Residence Life website at www.montana.edu/reslife. Please call the Residence Life Office at (406) 994-2661 for more information.

Notification of room assignment will be sent mid-April. Room charges are due within the first four days of check-in and are separate from registration fees. Summer Session housing will be available starting on Sunday, May 11, at 9:00 a.m.

Estimated Room Charges
- 1st 6-week session (May 11-June 21): $450.00*
- 2nd 6-week session (June 22-Aug. 2): $450.00*
- 12-week session (May 11-Aug. 2): $900.00*
- 12-month contract** (May 3-Aug. 19): $990.00*

(12-month contract price includes interim periods May 3-10 and Aug. 3-19)

and days of service will be posted at the front desks.

Meal Plans
(purchased at the Residence Life Cashier’s Office located in the Hedges Complex)
25 meals $168.75
50 meals $337.50
75 meals $506.25

Individual Meals
(purchased at the entrance to the Food Service)
Breakfast $6.75
Lunch $7.75
Dinner $8.75

For more information about meals, visit the Food Service Web site at www.montana.edu/ufs.

FAMILY & GRADUATE HOUSING

Family & Graduate Housing Office
1502 West Garfield
Bozeman, MT 59715
(406) 994-3730
fgho@montana.edu
www.montana.edu/fgh

Family & Graduate Housing consists of 587 apartments located in eight apartment communities (Paisley Court, Branggan Court, West Julia Martin, Mcintosh Court, Grant-Chamberlain Drive, Westside Houses, Peter Koch Tower and Nelson Story Towers). All units are within walking distance to campus facilities.

The Family & Graduate Housing Office (FGHO) sponsors events for children, non-student spouses, students, and the entire family. Enjoy a variety of events such as barbecues and concerts throughout the summer, as well as a week’s worth of “welcoming” activities at the beginning of the academic year. Child care is available through the ASMSU Daycare Center (located near Family & Graduate Housing) during Summer Session as well as fall and spring semesters. Children’s playgrounds are conveniently placed near each apartment community. A monthly newsletter is distributed to apprise tenants of upcoming Family & Graduate Housing events and pertinent seasonal information.

Summer Housing and Meals

FOOD SERVICE

Harrison Food Service is the residence hall cafeteria open for the summer. Residents are not required to contract for a meal plan during the Summer Session. Meals are available by selecting one of the three plans below that are loaded onto the student Cat Card or on an individual “pay-as-you-go” basis at the dining hall entrance. Every meal purchased is all-you-can-eat with a wide variety of choices. Availability of meals throughout Summer Session is dependent on conference activity. Hours

Stay in a residence hall during summer for maximum convenience to your Summer Session class!

Summer housing in both traditional single rooms as well as suite-style spaces are available. Each living space is furnished with bed(s) and bed linens, desks and chair, as well as dressers and closets. All residence halls have cable and high-speed internet via ResNet at no additional cost. Residents also have kitchen space, computer labs, laundry facilities, game room and TV lounges available to them.

Residence halls are centrally located on campus providing convenient access to Harrison Dining Hall, Hosaecus Student Recreation Center, and the Intramural Fields.

Room assignments are made beginning in April (first-come, first-served basis). All suites and buildings are non-smoking, inclusive of private rooms and public area space.

Residence Halls will open on Sunday, May 11, at 9:00 a.m.
Please visit the Residence Life Web site at www.montana.edu/reslife for a complete listing of residence hall offerings.

Individual Meals
(purchased at the entrance to the Food Service)
Breakfast $6.75
Lunch $7.75
Dinner $8.75

For more information about meals, visit the Food Service Web site at www.montana.edu/ufs.

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**Eligibility**

FGHO welcomes applications for both “summer only” and “year-round” qualified students. A student may reside in Family & Graduate Housing with individuals whom the student has or shares a legal responsibility. Examples of such relationships include, but are not limited to: married students, students with dependent children, students with dependent parent(s), and students with disabilities who require a live-in personal care attendant.

Single graduate students, second-degree undergraduates, and undergraduates who have earned more than seventy-two (72) credits, may choose to reside in one-bedroom apartments located in Peter Koch Tower and Nelson Story Towers. They may also choose to reside either alone or with a same-gender student roommate in Grant Chamberlain Drive.

At the time of occupancy, student applicants must provide documentation of their legal relationship to those persons residing with the student. Such documentation could include: a marriage license, children’s birth certificate(s), custody decree and/or letter of guardianship, or other documentation sufficient to establish a legal responsibility. Second-degree undergraduate students must provide a copy of their degree from an accredited four-year institution. Individuals who are not accompanied by their legal dependent and are not a graduate, second-degree undergraduate or upper classman student with seventy-two (72) completed credits or more may be accommodated in the residence halls.

**Credit Requirements**

In order for a new student to be eligible for Family & Graduate Housing, undergraduate students must be registered for a minimum of nine credits; graduate students must be registered for a minimum of five credits. Any change in student status must be immediately reported to FGHO.

For a description of housing, including floor plans, rental rates and building descriptions, visit the Family & Graduate Housing Buildings Web page at www.montana.edu/fgh/buildings.

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**Summer Application for Housing**

All FGHO applications must be accompanied by a $100.00 application fee. Written notice must be given to cancel the application in order to receive an application fee refund, less a $50.00 processing fee. All housing assignments and preferences are subject to availability. It is highly recommended that you send your application well before the desired date of occupancy. Assignments are prioritized by date of application.

You can apply online or print an application through the FGHO Web site at [www.montana.edu/fgh](http://www.montana.edu/fgh).

If you choose to print and mail your application, please send the FGHO application plus the $100.00 application fee to:

Cashier’s Office
Hedges Complex
Montana State University
P.O. Box 172080
Bozeman, MT 59717-2080

---

**CAT CARD**

(Campus ID Card)

**Cat Card Office**
Room 134, Strand Union Building
(406) 994-CARD (994-2273)
[www.montana.edu/catcard](http://www.montana.edu/catcard)

The Cat Card is a photo ID card which serves as campus identification, a meal plan card, library card, campus debit card*, and access control card. Deposits can be made at the Cat Card Office, 134 SUB; the Residence Life Cashier’s Office in the Hedges Complex; or online at [www.montana.edu/catcard](http://www.montana.edu/catcard).

*Purchases may be made using Cat Card as a debit card at any of the following locations on campus:

- Ask Us Information Center
- ASMSU Intramurals
- ASMSU Outdoor Recreation
- Brewed Awakenings
- Business Office
- CopyCats
- Dental Clinic
- The Habit
- HedgeHog
- Library & Library Photo Copies
- MSU Bookstore
- Rec Center
- Residence Hall dining facilities
- Residence Hall laundry facilities
- Residence Life Cashier’s Office
- Strand Union Food Service facilities (Avo’s, Bobcat Grill, SRO Espresso, Sweet Shop, Zorba’s, and Union Market)
- Student computer labs for printing
- Student Health Service
- University Police
- Vending machines (select)
Student Services at MSU

Dean of Students Office
174 Strand Union
994-2826
www.montana.edu/deanofstudents

The Dean of Students Office staff is available to students, parents, faculty, and members of the community for consultation about student-related matters, both academic and non-academic. We support a number of campus programs, including Fraternity/Sorority Life, Student Conduct, and Parent & Family Relations. We also provide support for students as they develop necessary skills as adult members of our academic community.

ASMSU
221 Strand Union
994-2933
www.montana.edu/asmsu

The Associated Students of Montana State University provides essential elements to a rewarding college experience: representation, education, entertainment, and service programs.

ASMSU services include:
ASMSU Senate..................................994-2933
  Student government
Bicycle Repair Shop................................994-3621
  See details, p. 18
Campus Entertainment .........................994-4839
  Art exhibits, concerts, films,
  comedy, lively arts & lectures
Day Care .......................................994-4370
  See details, this page
Exponent Newspaper .........................994-3976
KGLT Radio.....................................994-3001
Leadership Institute .........................994-7275
Legal Service.....................................994-2933
  Inexpensive legal service
Outdoor Recreation...............................994-3621
  See details, p. 18
Recreational Sports & Fitness..................994-5000
  See details, p. 19
Streamline Transit ...............................587-2434
  Free transportation for students,
  staff, faculty, and the public
All other ASMSU services .................994-2933

Career, Internship & Student Employment Services
177 Strand Union
994-4353
www.montana.edu/careers

Career, Internship & Student Employment Services offers a full range of career planning and recruitment services to students, alumni, the campus community, and employers. A primary goal of the office is to help students find satisfying careers and gain experience and skills which will clarify goals and facilitate entry into the job market. Services include:

  • MyCatCareers.com, a web page that hosts student employment, internship and full-time employment opportunities.
  • Career coaching to assist individuals with choice of major, career, job search preparation, career changes, or return to school (undergraduate or graduate programs).
  • Internships in a variety of fields. We offer assistance arranging academic credit for internships.
  • On-campus interviews for summer, internship, and career positions with employers in business, industry, government, education and non-profit fields.
  • Workshops on career planning, job search, interviewing, resume writing, and various career options.
  • A credential file service for teacher and graduate school candidates, plus all other students and alumni.

Counseling & Psychological Services
211 Swingle Hall (above Student Health)
994-4531
www.montana.edu/wwwcc

Counseling & Psychological Services provides free, confidential counseling to eligible summer session students. Limited services are provided on an appointment-only basis. For questions about eligibility or to schedule an appointment, please call 994-4531.

ASMSU Day Care Preschool
Louise Shunk Day Care/Community Center
1295 West Garfield St.
994-4370
www.montana.edu/wwwasmsu/daycare.html

A Day Care Preschool provided by ASMSU and the University is available in the family housing area. Children aged 2½ years until entrance into kindergarten of MSU students, staff and faculty are eligible. Children do not have to be toilet trained. The Day Care Preschool is open during Summer Session and the academic year.

Information, pamphlets and applications are available at the Preschool or in Room 221 SUB.

Disability, Re-Entry and Veteran Services
180 Strand Union
994-2824
TTY: 994-6701
www.montana.edu/drv

  • Disabled Student Services - This program provides services for students with disabilities. Students desiring accommodations for a disability must request services through Disabled Student Services.
  • Re-entry Student Services - Non-traditional-age students (25 and over) can find direction, support, and assistance in this office.
  • Veteran Support Center/Office of Veteran Services - (185 Strand Union, 994-3661) The center is dedicated to a variety of activities for MSU’s student veterans, along with managing GI Bill benefits for all qualified veterans, dependents, and Guard/Reserves.

Financial Aid Services
183 Strand Union
994-2845
www.montana.edu/wwwfa

To assist students in financing a college education, the Office of Financial Aid Services administers loan, grant, scholarship and work study programs from federal, state, university and private sources.
In order to apply for financial assistance for the summer session, you must complete (1) a 2013-2014 Free Application for Federal Student Aid (FAFSA) and (2) a Summer Supplemental Application Form. Your completed FAFSA must be received by the Federal Processor no later than June 30, 2014. **This is an absolute deadline.** A 2013-2014 FAFSA worksheet and Summer Supplemental Form may be obtained at the Office of Financial Aid Services or online at [www.montana.edu/wwwfa](http://www.montana.edu/wwwfa).

The priority date for summer financial assistance is March 31, 2014. Your summer financial aid application will be reviewed only if information from your 2013-2014 FAFSA is available.

The last day to apply for summer aid is June 30, 2014. Applications or requests for summer term financial aid will not be accepted after that date.

**Hosaeus Fitness Center/Recreational Sports & Fitness**

994-5000

[www.montana.edu/getfit](http://www.montana.edu/getfit)

The Hosaeus Fitness Center is available to students taking seven or more credits (membership is paid through University fees). Students taking six credits or less may elect to use the gym by paying the fee for membership at the Cashier’s Window on the first floor of Montana Hall.

Summer campus interns, student spouses, and University faculty and staff may buy memberships directly from the Rec Sports Office, Rm. 120.

- **Summer Building Hours for Hosaeus PE Complex**
  - Monday-Friday, 6a.m.-8p.m.
  - Saturday (beginning in June) 9a.m.-1p.m.
  - Closed Sunday

- **Pool Hours**
  - Lap Swim, Monday-Friday, 11a.m.-1p.m.
  - Lap/Open Swim, Monday-Friday, 4-7p.m.; Saturday, 10a.m.-12 noon

- **Facility Features**
  - 3 Full Gyms/6 Courts
  - 25-Yard/8-Lane Pool
  - Weight Area
  - 20-ft. Climbing Wall
  - Martial Arts Room

- **Rec Sports Equipment Room**
  - 994-5500
  - Monday-Friday, 7a.m.-8p.m.
  - Equipment check-out
  - Court reservations
  - Towel service

- **Services**
  - Tours
  - Fitness equipment orientation
  - Group fitness classes
  - Personal training
  - Instructional programs
  - Massage
  - Workshops
  - Children’s programs

- **Website & Facebook**
  - Please check our website for the latest information on classes and building hours: [www.montana.edu/getfit](http://www.montana.edu/getfit)
  - Find us on Facebook! [www.facebook.com/MSURecSports](http://www.facebook.com/MSURecSports)

**International Programs Office**

Fourth Floor Culbertson

994-4031

The Office of International Programs is the focal point for international activities on campus. The office offers services to foreign students and scholars as well as to U.S. students interested in studying abroad. The International Opportunities Resource Center, within the Office of International Programs, has a wide variety of resource materials to assist students with study, travel and work opportunities around the world.

During the summer, several short-term study abroad programs are offered.

For more information about specific opportunities call (406) 994-5719.

Incoming short-term programs involving students and faculty from many foreign countries are also held on the MSU campus during the summer months. Some of these programs include opportunities for local families to host international visitors. For more information about hosting, please call (406) 994-7512.

The A.C.E. Language Institute at MSU works closely with the Office of International Programs to provide professional English-as-a-Second-Language classes to international students throughout the year, including summer. The Institute’s staff offers orientation and on-going student services to new arrivals.

For more information on course schedules call the Institute at (406) 585-9832.

**Outdoor Recreation Program**

West Lincoln St. (adjacent to the Roskie Hall parking lot and intramural fields)

994-3621

[www.montana.edu/outdoorrecreation](http://www.montana.edu/outdoorrecreation)

The ASMSU Outdoor Recreation Program offers equipment rentals, group outings, resource area, bicycle and ski workshop, and special events. MSU students, faculty, staff, families and affiliates are eligible to use the services.

**Equipment Rental**

Tents, sleeping bags, backpacks, rafts, canoes, mountain bikes, stoves, lanterns, and other assorted gear are available. Rates are based on half-day, daily, weekend, or extended rental periods.

**Group Outings**

A variety of trips are offered that accommodate many interests and skill levels. Activities include hiking, backpacking, camping, rafting, canoeing, kayak touring and other pursuits. Destinations range from local recreation areas to Yellowstone, Grand Teton, and Glacier national parks. Nominal fees are charged to defray costs of transportation, group equipment and other organizational expenses.
Resource Area
Maps, trail guides, magazines and other informational materials are available for individuals interested in planning their own personal adventure.

Bicycle Workshop
The Bicycle Workshop provides the opportunity for individuals to maintain and repair personal equipment. Options include:
- Do It Yourself – free use of work area and tools
- Technical Assistance – an attendant is on duty periodically
- Drop-Off Service – available for individuals who prefer to have a technician do the work (inquire for rates). A limited supply of parts is also stocked for resale.

Further information about the Outdoor Recreation Center and its services may be obtained by calling 994-3621 or by visiting the website listed above.

Renne Library
994-3171
www.lib.montana.edu
Conveniently located in the center of campus, Renne Library has a full range of library collections and services for students and faculty. Knowledgeable and friendly faculty librarians and library staff provide assistance using the collections, access to databases, and instruction for individuals and groups. The MSU Libraries’ collections support teaching, learning, and research at MSU, with particular emphasis in the fields of agriculture, science, health, and technology.

A wealth of information is available around the clock via the library Web page (www.lib.montana.edu), including the online catalog, electronic indexes, and many full-text e-journals and e-books. Personalized one-on-one research assistance is available to students on a drop-in basis at the reference desk, or online via email or chat. Moreover, the Libraries offer the Research Assistance Program, or RAP: students may make an appointment for a consultation with a reference librarian who will thoroughly explore research options relating to a specific assignment or class.

Renne Library is open to the public.

Strand Union Building
994-3082
www.montana.edu/sub
The Strand Union Building (SUB) is the center of campus activity at MSU. The SUB provides daily services, amenities, and out-of-classroom opportunities for informal interaction among members of the college community. Through student government, organizations, and employment, the SUB provides a cultural, social, and recreational environment to complement classroom and study experiences.

Focused on serving the needs of students, staff, faculty and University guests, the Strand Union has three student-managed, student-staffed service centers:
- “ASK US” Information Center/Ticket Office—campus information, lost and found, ticket sales, stamps, mail drop, and fax. Visit www.montana.edu/askus for MSU Events & Schedules, MSU Info and Directories, Community Info, and Other Helpful Sites.
- CopyCats—convenient copy service, color copies, and digital output from CD or flash, postal, laminating and binding services, and class notes.
- Recreation Center—bowling, billiards, foosball, shuffleboard, videos, ESPN, PS3, and snacks. Open Summer Session Mon.-Thurs., 12:00 noon-10:00 p.m.; Fri., 12:00 noon-5:00 p.m.

Additional services in the Strand Union include:
- Full service banking
- Automated banking ATMs
- Coin-op copier
- Meeting rooms (seating from 10-1,700)
- Public access computers with printing
- Student and TV Lounges
- MSU Cat Card—University ID, on-campus debit card, access to halls and Rec Sports Center, and student printing
- MSU Bookstore—textbooks, MSU merchandise, gift items, computer and art supplies
- Strand Union Food Services:
  - Catering—University-wide coffee breaks, buffet and served meals
  - SRO Espresso—Standing Room Only’ espresso bar
  - Sweet Shop/Freshëns—homemade cookies, fudge, candy, popcorn, smoothies, frozen yogurt and ice cream

Union Market—breakfast and lunch entrees, soup, salad bar, FatCat bakery items, Asian and Mexican food

Student Health Service
Swingle Health Center
994-2311
www.montana.edu/health
Summer Session students may obtain medical care and treatment at the Swingle Health Service located on the east side of the Strand Union. Available services during the summer include treatment of illnesses and injuries, dental services, pharmacy, laboratory services, x-ray, nutrition services and assistance with health insurance needs.

During the summer while school is in session the Student Health Service is open Monday through Friday from 9:00 to 11:30 a.m. and from 1:00 to 4:00 p.m. Between semesters, the Student Health Service is open Monday through Friday from 8:00 to 11:30 a.m.

Summer Session students who register for seven or more credit hours are required to pay the health fee and are thus eligible to use the Health Service during the time period for which they are enrolled. Students taking fewer than seven credit hours have the option of paying the health fee.

For immunization requirements and forms, please consult the Student Health Service Web site listed above.

Office of Student Success
177 Strand Union
994-ROAR (7627)
www.montana.edu/success
The Office of Student Success believes in students and their potential. Students who visit our office learn to take an active role in owning and directing their education and future. The Office of Student Success offers several programs and services aimed at helping students achieve success at MSU. These programs and services include:
- Student Success Advisors are expert learning strategists who meet one-on-one with students to teach them the tools they can use to improve their academic performance.
• **First Year Initiative (FYI)** is here to assist first-year students make the transition to college.

• **Second Year Initiative (2YI)** is here to help second-year students navigate through any rough spots they may have experienced in their freshman year.

• **Student Early Alert System** connects each referred student with their Student Success Advisor who will provide each student with tools to improve their performance and help them formulate a success plan for the remainder of the semester.

• **Workshops** to help students get organized, learn the ins and outs of MSU, and connect them to other students.

• **ChampChange** is a program that rewards first-time freshman and sophomore students for engaging in events and programs at MSU and the Bozeman community.

• **SmartyCats Tutoring** offers FREE one-on-one and small-group tutoring to MSU students for all courses.

• **Learning Strategies (US 191)**. Experienced Office of Student Success staff members who specialize in learning strategies teach this one-credit course.

• **Education, the World of Work and You (US 210)**. This three-credit course is a great resource for sophomore students who have not yet narrowed down their major or career plans.

• **Return to Learn**. Return to Learn is a program designed for students seeking re-admission to MSU after taking a leave of absence.

• **Legend of the Bobcat** is a freshman-only event held every year at the beginning of the fall semester and is designed to welcome first-year students and get them excited about their new community and home.

• **MSU 101** is offered several times each semester with the purpose of providing students with the tools they need to succeed at MSU.

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**VEHICLE REGISTRATION**

<table>
<thead>
<tr>
<th>University Police Department</th>
<th>Vehicle Registration Fees for Summer Session</th>
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</thead>
<tbody>
<tr>
<td>Roy Huffman Building</td>
<td>(applicable from May 4 to Aug. 31, 2014)</td>
</tr>
<tr>
<td>Corner of S. 7th &amp; Kagy</td>
<td></td>
</tr>
<tr>
<td>994-2121</td>
<td>Consumer Price Index for All Urban Workers</td>
</tr>
<tr>
<td><a href="http://www.montana.edu/wwwmsupd">www.montana.edu/wwwmsupd</a></td>
<td></td>
</tr>
</tbody>
</table>

All students, faculty, staff, and visitors must register all motor vehicles they park on campus and university-controlled streets. You should register your vehicle immediately upon your arrival on campus and obtain a copy of the vehicle regulations by going online at: [www.montana.edu/police/permit.shtml](http://www.montana.edu/police/permit.shtml) and following the prompts to buy a permit. You can also enter the site by logging in to your MyInfo account and selecting the Parking tab. Visitors may purchase day permits at the Visitor Information Booth at S. 7th & Grant St. or at the University Police Department.

<table>
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<tr>
<th>Vehicle Registration Fees for Summer Session</th>
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<tbody>
<tr>
<td>$82.00 for SB lots</td>
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<tr>
<td>$82.00 for E lots</td>
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<tr>
<td>$32.00 for F lot</td>
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<tr>
<td>$58.00 for D lot</td>
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<tr>
<td>$31.00 for Motorcycles</td>
</tr>
</tbody>
</table>

Hang tags are available for $3.00 per day and may be used in any campus lot except gold signed reserved parking.

**Bicycles**

Bicycle permits are free and registration is recommended for any bicycle on campus to aid in the return of stolen or lost bicycles.

Bicycle Restrictions:

• Are not allowed in buildings
• May not be chained to trees, railings, signs, etc.
• May not be parked where they are a hazard to pedestrians

Bicycles in violation of these restrictions will be impounded and owners will be cited by the University Police.
Welcome to Bozeman!

Home of Montana State University, Bozeman nestles against the Rocky Mountains in the heart of the scenic Gallatin Valley in southwestern Montana.

Population
- 38,700 with an additional 15,000 Montana State University enrollment during the academic year.

One of the most diverse small towns in the Rocky Mountain West, Bozeman’s residents are an eclectic mix of ranchers, artists, professors, ski enthusiasts and entrepreneurs drawn here by world-class outdoor recreation, Montana State University and a slice of old fashioned Americana. Bozeman prides itself in offering a small town feel with all the amenities and conveniences of a big city.

Elevation & Summer Weather
- Elevation: 4,800 feet
- Average high summer temperatures: 70s and 80s
- Average low summer temperatures: mid 40s and low 50s
- Annual precipitation: 18.61 inches, one-third of which falls during May and June

Bozeman’s climate reflects its mountain valley location. Summers are pleasant, characterized by warm days, cool nights, and an abundance of sunshine. Bozeman is one of the few areas of the country where the average summer climate is comfortable due to the moderate combined heat and humidity. Most summers have seven or fewer days with temperatures exceeding 90 degrees.

City Attractions
- More than 100 shops, restaurants and coffeehouses lining a beautiful and historic retailing corridor in downtown Bozeman
- Art galleries, opera, symphony and ballet
- Theatre, including Shakespeare in the Parks and the Vigilante Theatre Company
- Sweet Pea Festival (an annual celebration of the arts) and the Gallatin County Fair
- Exceptional museums, including the Gallatin Pioneer Museum, the American Computer Museum, and the world-renowned Museum of the Rockies, featuring one of the finest paleontology collections in North America
- Ten city parks with picnic and playground areas, tennis courts, indoor and outdoor swimming pools, skateboard facilities and a BMX bike park
- Four golf courses in the city and surrounding area

Transportation Services
- Interstate 90
- Greyhound Bus Lines
- Streamline Transit Bus Service (servicing Bozeman and Belgrade)
- Gallatin Field Airport (8 miles northwest of Bozeman; serviced by Northwest, Delta, Horizon Air, Big Sky, and United Express airlines)

Summer Outdoor Recreation
- Hiking & backpacking
- Rock climbing
- Mountain biking
- Fly fishing
- River rafting, kayaking & canoeing
- Wildlife viewing
- Photography
- Yellowstone National Park (west entrance 90 miles south of Bozeman)

Considered a winter mecca to skiers throughout the country, Bozeman is also renowned for its summer activities. Surrounded by four mountain ranges, thousands of acres of national forest, and hundreds of miles of blue ribbon trout streams, the area offers endless recreation opportunities.

Awards & Distinctions
- 2006—America’s #1 Dreamtown, Bizjournals Publications
- 2003—Fifth Best College Town (North America), Outside Magazine
- 2001—All-America City Award (one of 10 communities nationwide), American Civic League

Bozeman has been nationally recognized for its highly educated workforce, small business growth and strong local economy, civic excellence, intellectual and cultural activity, a world-class museum, its spectacular mountain setting and abundant outdoor recreation opportunities, and the overall outstanding quality of life.

TO REACH THE CAMPUS

From the West
On I-90, take exit 305 onto North 19th Avenue and follow it to Kagy Blvd. Turn left onto Kagy and continue to South 7th Avenue; turn left and continue to parking areas. Visitor parking is available in the pay parking lot on the corner of S. 7th and Grant (see star on map).

From the East
On I-90 take exit 309 onto Main Street; proceed west through downtown to Willson Avenue, turn left and proceed 18 blocks to Kagy Blvd.; turn right and continue to South 7th Avenue; turn right. Parking is available as mentioned above.
Summer 2014 Offerings

Summer Session 2014 brings a variety of credit and non-credit opportunities to a diverse audience, including continuing MSU students, summer-only students, children, and adult learners.

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Schedule of Courses

Following on p. 28-32 is the Summer Session 2014 preliminary course listing as of January 2014.

Please refer to the Summer Session class schedule online for the most current information. The schedule will be mostly complete by Jan. 31, 2014.

The schedule will include detailed course information regarding sessions of offerings, meeting days, times and locations, instructors, mode of instruction (on-campus or online), special fees, and class enrollment numbers.

The 2014 Summer Session Schedule of Classes may be accessed online as follows:

1) Go to Web site: www.montana.edu (MSU home page)
2) Click on: MyInfo (bottom left-hand corner of page), Schedule of Classes
3) Select term: 2014 Summer Session
4) Select subject: Highlight one or more consecutive subject areas, or click and drag to highlight all subject areas
5) Click on: Search Class (bottom left-hand corner of page)

CORE COURSES

Core courses are designated by a letter following the course number (e.g., WRIT 101W). The following letters are used to specify the core groups:

US University Seminar
W College Writing
Q Quantitative Reasoning
D Diversity
CS Contemporary Issues in Science
IA Arts Inquiry or
RA Arts Research
IH Humanities Inquiry or
RH Humanities Research
IN Natural Science Inquiry or
RN Natural Science Research
IS Social Science Inquiry or
RS Social Science Research
R Additional Research and Creative Experience Courses

CLASSIFICATION OF COURSES IN THE COURSE BULLETIN

In the second line of each course description in the MSU Course Bulletin, following the number of credits for the course, there appears a course classification designation which indicates the mode of instruction for that course. In some cases two classifications are listed along with the number of credits in each. Following is an explanation of course classifications.

LEC—Lecture: Presentation of course material by the instructor, utilizing the lecture method.
LAB—Laboratory: Instructing and supervising students in laboratory investigations.
STU—Studio: Instructing and supervising students in studio investigations.
RCT/DIS—Recitation-Discussion: Presentation of course materials designed to involve students in recitation and/or discussion.
SEM—Seminar: Students share, with the instructor, responsibility for preparation and presentation of course material.
IND—Independent Study: Directed study and/or research on an individual basis, under supervision of instructor.

GRADUATE CREDIT

Courses which may be taken for graduate credit are designated by a 500 or 600 number.

UNIFORM COURSE NUMBERS

Uniform numbers are used in all departments.

294, 394, 494, 500 and 594 Seminar
292, 492, 570 and 592 Individual Problems (individual projects)
291, 491, 580 and 591 Special Topics (group or class project)
290R Undergraduate Research
475 Undergraduate Projects
490R Undergraduate Scholars Program
298, 498, 576 and 598 Internship
575 Graduate Research Paper (professional paper/project)
588 Professional Development
589 Graduate Consultation
590 Master’s Thesis
689 Reading and Research
690 Doctoral Thesis

For course descriptions, please consult the MSU Course Bulletin or visit the Web site at www.montana.edu/wwwcat/courses/courses2.html.

NUMBERING SYSTEM

001-099 Courses below college level; no college credit given
100-199 Freshman—Lower Division
200-299 Sophomore—Lower Division
300-399 Junior—Upper Division
400-499 Senior—Upper Division
500-599 Graduate Courses
600-699 Graduate Courses

COURSE OFFERING CONTINGENCIES

Montana State University strives to offer all courses listed in the online class schedule.

The schedule will contain a few new courses offered on a trial basis. A notation stating a minimum enrollment number will be included with each; if this number is not reached, the course may be cancelled. Also, in the rare case when an instructor is not available due to a last minute emergency, courses may be cancelled.

Some courses are offered on a to-be-arranged basis, in which case class times, days, location and instructor will not appear in the course schedule. Check with the offering department for details.
These courses may be repeated for credit. Specific titles of Special Topics courses are listed in the Schedule of Classes, on the Class Rolls and on the student’s permanent record.

Some courses such as Special Topics, Individual Problems and Internship are offered for varying amounts of credit, e.g., 1-5. A maximum number of credits is also imposed, e.g., Maximum 6 cr. A student may repeat such courses to earn the maximum number of credits by registering for two or more projects with credits for each project totaling the maximum allowed. Credits earned beyond the maximum cannot be applied toward graduation.

**SPECIAL TOPICS & INDIVIDUAL PROBLEMS COURSES**
The maximum number of credits allowed toward graduation of 291 and 491 courses in each rubric is 12, and the maximum number of 492 credits in each rubric is six. Some departments have established lower limits than these, and the student is responsible for checking the specific course listings to see that he or she does not exceed the allowable number of credits. The maximum number of 570 credits applicable to a graduate degree depends upon the degree. No 492 credits are applicable to a graduate degree.

**UNDERGRADUATE COURSE PREREQUISITES**
Courses beyond the freshman year usually have “prerequisites.” This means that certain lower-level courses must be taken before the student may register for the advanced course.

The prerequisite for undergraduate courses may be “consent of instructor.” The student must secure the permission of the instructor of the course before registering for it. “Consent of instructor” is usually required for courses in which there is limited laboratory space and/or equipment or in which specific skills are required.

### GRADUATE COURSE PREREQUISITES
Courses at the 500 and 600 levels may be taken only by qualified students. Unless otherwise stated under course prerequisites, graduate level courses are open only to:

1. Students with graduate standing (post-baccalaureate students admitted to The Graduate School, enrolled in non-degree status or second bachelor’s degree candidates)
2. Seniors with a cumulative grade point average of 3.25 or higher
3. Other seniors who have a petition approved by the head of the department offering the course, the head of the student’s major department, and the Dean of the Graduate School.

Some courses are limited to students with graduate standing or certain levels of graduate standing. These specific conditions are indicated within the course prerequisite or description statements. Students below senior standing are not eligible to take graduate-level courses.

### SESSION DATES
First 6-week session: May 12 - June 20
Second 6-week session: June 23 - Aug. 1
12-week session: May 12 - Aug. 1
Interession: June 9 - Aug. 1
Education Interession: June 9 - July 18
* Interession is designed for courses of varying length

### ABBREVIATIONS
The following abbreviations are used in the Schedule of Courses:

- **M**—Monday
- **F**—Friday
- **T**—Tuesday
- **S**—Saturday
- **W**—Wednesday
- **U**—Sunday
- **R**—Thursday

### BUILDING ABBREVIATIONS

- **ABB** Animal BioScience Bldg.
- **AJM** Arthur J. M. Johnson Hall
- **BFH** Breeden Fieldhouse
- **BOZ** Bozeman (Nursing, Deaconess Hospital)
- **BOZC** Bozeman Convalescent Center
- **CHBCH** Chemistry/Biochemistry Bldg.
- **CHMN** Chemistry Modular North
- **CHMS** Chemistry Modular South
- **CHVR** Cheever Hall
- **COBH** Cobleigh Hall
- **EPS** Engineering Physical Science
- **FCMO** Faculty Court Modular
- **GH** Gaines Hall
- **HAM** Hamilton Hall
- **HANH** Hannon Hall
- **HAYH** Haynes Hall
- **HELN** Helena
- **HH** Herrick Hall
- **HOWH** Howard Hall
- **JONH** Leon H. Johnson Hall
- **LEWH** Lewis Hall
- **LINH** Linfield Hall
- **MARL** Marsh Research Laboratory
- **MCH** McCall Hall
- **MH** Montana Hall
- **MSP** Miller Stock Pavilion
- **NS** Nursery School
- **PBS** Plant BioScience Bldg.
- **PEC** Physical Education Complex
- **PLGR** Plant Growth Center
- **REID** Reid Hall
- **RLIB** Renne Library
- **ROBH** Roberts Hall
- **ROM** Romney Gymnasium
- **SHC** Student Health Center
- **SHER** Sherrick Hall
- **SUB** Strand Union Building
- **TAYH** Taylor Hall
- **TCCE** Temporary Classroom East
- **TCW** Temporary Classroom West
- **THTR** Theater, Strand Union
- **TRAP** Traphagen Hall
- **VCB** Visual Communications
- **WIL** Wilson Hall
Preliminary Course Listing

SUMMER SESSION 2014 PRELIMINARY COURSE LISTING
(as of January, 2014)

Go online for the most current information.

The following preliminary course listing was compiled in January, 2014. Since that time, some courses may have been added and other courses cancelled. Please refer to the Summer Session Class Schedule online at www.montana.edu/students (under "Academic Info") for the most current information as well as class dates, times, locations, and instructors (access instructions, p. 24). The schedule will be mostly complete by January 31, 2014.

Enrollment in the courses listed below requires that students be admitted to MSU. Registration will take place through the MSU Registrar's Office.

Individual problems, internships, undergraduate research, etc., are not included in this preliminary listing. Please contact individual departments for more information about these opportunities.

ACCOUNTING
ACTG 201—Principles of Financial Accounting, 3 cr.
ACTG 202—Principles of Managerial Accounting, 3 cr.
ACTG 223—Principles of Financial Accounting II, 3 cr.
ACTG 515—Professional Services Management, 3 cr.
ACTG 524—International Accounting, 3 cr.

ACTIVITIES – GENERAL
ACT 110—Beginning Weight Training, 1 cr.
ACT 115—Soccer, 1 cr.
ACT 150—Beginning Yoga, 1 cr.
ACT 163—Race Training 5/10 K, 1 cr.

AGRICULTURAL EDUCATION
AGED 140US—Leadership Development for Agriculture, 3 cr.
AGED 301—Rural Electrification, 3 cr.

AMERICAN STUDIES
AMST 202RA—The Arts in America, 3 cr.
AMST 401R—Seminar in American Studies, 4 cr. (online)
AMST 502—Research in American Studies, 3 cr.

ANTHROPOLOGY
ANTY 252IS—Mysteries of the Past, 3 cr. (online)
ANTY 343—Popular Culture – Japan, 3 cr. (online)

ARCHITECTURE
ARCH 121A—Introduction to Design, 3 cr.
ARCH 151RA—Design Fundamentals I, 4 cr.
ARCH 152—Design Fundamentals II, 4 cr.
ARCH 414—Architectural Study Abroad, 9 cr.
ARCH 428—Foreign Study History, 3 cr.
ARCH 450—Community Design Center, 5 cr.
ARCH 451—Architectural Theory, 3 cr.
ARCH 521—Historical Issues in Architecture, 3 cr.
ARCH 522—Special Design Topic, 3 cr.
ARCH 543—Advanced Applied Design and Construction, 3 cr.
ARCH 551—Advanced Architectural Studio, 6 cr.
ARCH 558—Comprehensive Design Studio, 6 cr.
ARCH 564—Advanced Architectural Graphics, 3 cr.
*Sections offered both first and second 6-week sessions

ART – ART HISTORY
ARTH 201IA—Art of World Civilization II, 4 cr.
ARTH 301—Art and Architecture of Ancient Mesoamerica, 3 cr.
ARTH 406—Roman Art and Architecture, 3 cr.
ARTH 491—Special Topics: Art Now, 3 cr.
*See p. 48 for course description

ART – VISUAL ARTS
ARTZ 106RA—Visual Language – 2-D Foundations, 4 cr.
ARTH 491—Special Topics: New York Field Study, 3 cr.
*See p. 48-49 for course description

BIOCHEMISTRY
BCH 380—Biochemistry, 5 cr.

BIOLOGY
BIOL 409—Advanced Human Torso Anatomy, 4 cr.

BIOLOGY – ECOLOGICAL
BIOE 416—Alpine Ecology, 3 cr.
BIOE 420—Field Ornithology, 3 cr.
BIOE 421—Yellowstone Wildlife Ecology, 3 cr.

BIOLOGY – GENERAL
BIOB 375—General Genetics, 3 cr.
BIOB 497—Educational Methods: Biology (Cellular and Neurobiology), 2 cr.
BIOB 497—Educational Methods: Biology (Ecology), 2 cr.

BIOLOGY – HUMAN
BIOH 201—Human Anatomy and Physiology I, 5 cr.
BUSINESS – FINANCE
BFIN 322—Business Finance, 3 cr.

BUSINESS – GENERAL
BGEN 204—Business Fundamentals, 3 cr.
BGEN 242D—Introduction to International Business, 3 cr. (online)
BGEN 361—Principles of Business Law, 3 cr.
BGEN 499—Business Senior Seminar, 4 cr. (online)

BUSINESS – MANAGEMENT
BMGT 205—Professional Communication Fundamentals, 3 cr. (online)
BMGT 322—Operations Management, 3 cr.
BMGT 335—Management and Organization, 3 cr. (online)

BUSINESS – MANAGEMENT INFORMATION SYSTEMS
BMIS 211—Introduction to Business Decision Support, 3 cr.
BMIS 311—Management Information Systems, 3 cr. (online)

BUSINESS – MARKETING
BMKT 325—Principles of Marketing, 3 cr. (online)

CHEMISTRY
CHMY 121IN—Introduction to General Chemistry, 4 cr.
CHMY 123—Introduction to Organic and Biochemistry Principles, 4 cr.
CHMY 141—College Chemistry I, 4 cr.
CHMY 143—College Chemistry II, 4 cr.
CHMY 321—Organic Chemistry I, 4 cr.
CHMY 323—Organic Chemistry II, 4 cr.

COACHING
COA 205—Introduction to Coaching, 3 cr. (online)
COA 395—Practicum: Coaching Application, 1 cr.
COA 405—Advanced Concepts in Coaching, 3 cr. (online)

COMMUNICATIONS
COM 110US*—Introduction to Public Communication, 3 cr.
*Sections offered both first and second 6-week sessions

COMMUNITY HEALTH
CHTH 205—Drugs and Society, 3 cr. (online)
CHTH 435—Human Response to Stress, 3 cr. (online)

COMPUTER APPLICATIONS
CAPP 120—Introduction to Computers, 3 cr. (online)

COMPUTER SCIENCE
CS 145RA—Web Design, 3 cr. (online)

COMPUTER SCIENCE – PROGRAMMING
CSCI 112—Programming with C I, 3 cr.
CSCI 232—Data Structures and Algorithms, 4 cr.
CSCI 246—Discrete Structures, 3 cr.

EARTH SYSTEMS
ERTH 101IN—Earth System Science, 4 cr.

ECONOMICS
ECNS 202—Principles of Macroeconomics, 3 cr.
ECNS 204IS—Microeconomics, 3 cr.

EDUCATION
EDU 330—Emergent Literacy, 3 cr. (on campus/online)
EDU 342—Managing the Learning Environment, 3 cr.
EDU 370—Integrating Technology Into Education, 1 cr. (online)
EDU 397—Methods: K-8 Creative Arts, 3 cr. (on campus/online)
EDU 397—Methods: K-8 Math, 3 cr. (on campus/online)

EDUCATION, CURRICULUM AND INSTRUCTION
EDCI 501—Educational Statistics I, 3 cr.
EDCI 506—Applied Educational Research, 3 cr.
EDCI 508—Advanced Educational Psychology, 3 cr.
EDCI 531—Contemporary Issues in Education, 3 cr. (online)
EDCI 532—General School Curriculum, 3 cr. (online)
EDCI 534—Literacy Assessment and Instruction, 3 cr. (online)
EDCI 571—In-Service Education, 1 cr.

EDUCATIONAL LEADERSHIP
EDLD 510—Organization and Administration of Higher Education, 3 cr.
EDLD 526—Evaluating School Programs, 3 cr. (online)
EDLD 534—Data Driven Decisions, 3 cr. (online)
EDLD 564—The Comprehensive Portfolio, 3 cr. (on campus/online)
EDLD 571—In-Service Education, 1-4 cr.

EDUCATION – SPECIAL
EDSP 306—Exceptional Learners 0-21, 3 cr.

ENGINEERING – CHEMICAL
**New** ECHM 451—Chemical Engineering Process Dynamics and Control, 3 cr.

ENGINEERING – CIVIL
**New** ECIV 220CS—Civil Engineering and Construction: From the Ancient to the Modern, 3 cr. (online)
**New** ECIV 331—Engineering Hydrology, 2 cr. (online)

ENGINEERING – ELECTRICAL
EELE 203—Circuits II for Engineering, 4 cr. (online)

ENGINEERING – GENERAL
EGEN 125CS—Technology, Innovation, and Society, 3 cr.
EGEN 201—Engineering Mechanics: Statics, 3 cr. (on campus)
EGEN 201—Engineering Mechanics: Statics, 3 cr. (online)
EGEN 202—Engineering Mechanics: Dynamics, 3 cr. (on campus)
EGEN 202—Engineering Mechanics: Dynamics, 3 cr. (online)
EGEN 203—Applied Mechanics, 3 cr.
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<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
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<td>Mechanics of Materials</td>
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<td>EGEN 205</td>
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<td>EGEN 208</td>
<td>Applied Strength of Materials</td>
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<td>EGEN 310R</td>
<td>Multidisciplinary Engineering Design</td>
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<td>EGEN 325</td>
<td>Engineering Economic Analysis</td>
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<td>Fluid Mechanics</td>
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<td>EGEN 350</td>
<td>Applied Engineering Data Analysis</td>
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<td>ENGINEERING – MECHANICAL</td>
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<td>New! EMEC 103</td>
<td>CAE I – Engineering Graphics Communications</td>
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<td>ENGINEERING TECHNOLOGY – MECHANICAL</td>
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<td>New! ETME 310</td>
<td>– Machining and Industrial Safety</td>
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<td>FAMILY AND CONSUMER SCIENCE</td>
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<td>FCS 101IS</td>
<td>Individual &amp; Family Development and Well-Being</td>
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<td>FCS 261</td>
<td>Adult Development and Aging</td>
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<td>FSC 263</td>
<td>Relationships and Family Systems</td>
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<td>FCS 371</td>
<td>Research Methods in Health and Human Development</td>
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<td>FSC 454</td>
<td>Professional Issues – Senior Seminar</td>
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<td>FILM*</td>
<td>Studies in Film: The Musical</td>
<td>3</td>
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<td>New! FILM 381</td>
<td>– Advanced Studies in Film: Quentin Tarantino – The Cinema of Cool</td>
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<td>New! FILM 481</td>
<td>– Advanced Studies in Film: Quentin Tarantino – The Cinema of Cool</td>
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<td>New! FILM 494</td>
<td>Seminar: Film and Photoboardering</td>
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<tr>
<td>New! FILM 494</td>
<td>Seminar: After Effects Bootcamp</td>
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<td>New! FILM 494</td>
<td>Seminar: Experimental Cinema</td>
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<td>*For course descriptions, see FILM section, p. 50-51, in Special Summer Courses.</td>
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<td>GEOGRAPHY</td>
<td>Geography of World Regions</td>
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<td>GPHY 141D</td>
<td>Geography Instruction</td>
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<td>GPHY 497</td>
<td>Geography Instruction</td>
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<td>Elementary German I</td>
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<td>Elementary German II</td>
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<td>GRMN 102D</td>
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<td>GRAPHIC DESIGN</td>
<td>Yellowstone Digital</td>
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<td>GDSN 360</td>
<td>Teton Digital</td>
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<td>GDSN 378</td>
<td>Guerrilla Advertising</td>
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<td>HEALTH</td>
<td>Human Sexuality</td>
<td>3</td>
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<td>HTH 220</td>
<td>The Ethic of Care</td>
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<td>HISTORY – AMERICAN</td>
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<td>HSTA 102IH</td>
<td>American History II</td>
<td>4</td>
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<td>Western Civilization I</td>
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<td>HSTR 102IH</td>
<td>Western Civilization II</td>
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<td>HSTR 160D</td>
<td>Modern World History</td>
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<td>HORTICULTURE AND LANDSCAPE DESIGN</td>
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<td>HUMAN DEVELOPMENT – COUNSELING</td>
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<td>HDCO 502</td>
<td>Counseling Ethics and Professional Orientation</td>
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<td>School Counseling Programs</td>
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<td>HDCO 508</td>
<td>Counseling Theories I</td>
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<td>HDCO 524</td>
<td>Consultation and Crisis Counseling: Theory and Practice</td>
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<td>Adventure Counseling</td>
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<td>HDCO 551</td>
<td>Appraisal</td>
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<td>HDCO 558</td>
<td>Career Counseling</td>
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<td>The Structure and Function of Language</td>
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<td>College Algebra</td>
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<td>M 121Q</td>
<td>Mathematics for the Liberal Arts</td>
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<td>M 145Q*</td>
<td>Precalculus</td>
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<td>M 161Q*</td>
<td>Survey of Calculus</td>
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<td>M 171Q*</td>
<td>Calculus I</td>
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<td>M 172Q*</td>
<td>Calculus II</td>
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<td>M 221</td>
<td>Introduction to Linear Algebra</td>
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<td>M 273Q*</td>
<td>Multivariable Calculus</td>
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<td>M 274*</td>
<td>Introduction to Differential Equations</td>
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<td>M 517</td>
<td>Advanced Mathematical Modeling for Teachers</td>
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<td>M 523</td>
<td>Number Structure for Teachers</td>
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MUSIC – GENERAL
MUSI 101IA—Enjoyment of Music, 3 cr. (online)
MUSI 203IA—American Popular Music: Reflections of Politics and Society, 3 cr. (on campus/online)
MUSI 307IA—World Music, 3 cr.
MUSI 348—Ensemble: Bozeman Community Concert Band, 1 cr.
MUSI 495—Applied Music IV, 1-2 cr.
MUSI 595—Applied Music, 1 cr.

NATIVE AMERICAN STUDIES
NASX 105D—Introduction to Native American Studies, 3 cr.
NASX 232D—Montana Indian Cultures, Histories, Current Issues, 3 cr.
NASX 340—Native American Literature, 3 cr.

NURSING
NRSG 115—Nursing as a Profession, 2 cr. (online)
NRSG 220*—Foundations of Ethical Nursing Practice, 2 cr. (online)
NRSG 225—Foundations for Planning and Providing Clinical Nursing Care, 4 cr.
NRSG 238—Health Assessment Across the Lifespan, 4 cr.
NRSG 258—Principles of Pathophysiology, 3 cr. (online)
NRSG 336—Nursing Pharmacotherapeutics, 3 cr.
NRSG 341—Psychosocial Nursing Concepts, 3 cr.
NRSG 477—Population Based Nursing Care in the Community, 6 cr.
NRSG 487—Nursing Leadership and Management Development, 6 cr.
NRSG 503—Curriculum Development, 3 cr. (online)
NRSG 519—Pharmacotherapeutics for Middle Age Adults, 1 cr. (online)
NRSG 526—Family Mental Health Nursing II, 6 cr. (online)
NRSG 529—Psychopharmacotherapeutics Across the Lifespan, 3 cr. (online)
NRSG 562—Primary Care II for Midlife Families, 6 cr. (on campus/online)
*Sections offered both first and second 6-week sessions

NUTRITION
NUTR 221CS—Basic Human Nutrition, 3 cr. (on campus)
NUTR 221CS—Basic Human Nutrition, 3 cr. (online)

PHILOSOPHY
PHL 101IH—Introduction to Philosophy: Reason and Reality, 3 cr. (online)
PHL 103D—Philosophy and Popular Culture, 3 cr.
New! PHL 327—Aesthetics and the Arts, 3 cr.

PHOTOGRAPHY
PHOT 113RA—Understanding Photography, 3 cr.
New! PHOT 494-01*—Seminar: Small Town Documentary, 3 cr.
New! PHOT 494-02*—Seminar: Landscape Photography, 4 cr.
*For course descriptions, see p. 53 in the Special Summer Courses section.

PHYSICS
PHSX 205—College Physics I, 4 cr.
PHSX 207—College Physics II, 4 cr.

PHYSICS – ASTRONOMY
ASTR 110IN—Introduction to Astronomy: Mysteries of the Sky, 3 cr.

POLITICAL SCIENCE
PSCI 210IS—Introduction to American Government, 3 cr. (online)
PSCI 439—International Human Rights, 3 cr.
PSCI 454—Cinema and Political Theory, 3 cr.

PSYCHOLOGY
PSYX 100IS—Introductory Psychology, 3 cr.
PSYX 235D—Contemporary Issues in Human Sexuality, 3 cr.
PSYX 263CS—Psychology of Film, 3 cr.
PSYX 340—Abnormal Psychology, 3 cr.
PSYX 375—Behavior Modification, 3 cr. (online)
PSYX 462—Psychology of Prejudice, 3 cr.
PSYX 463—Social Cognition, 3 cr.
PSYX 475—Advanced Behavior Analysis, 3 cr.

RELIGIOUS STUDIES
RLST 100D—Introduction to the Study of Religion, 3 cr. (online)
RLST 203D—Buddhist Traditions, 3 cr. (online)

SOCIOLOGY
SOCI 101IS—Introduction to Sociology, 3 cr. (online)
SOCI 202—Social Statistics, 3 cr.
SOCI 318R—Sociological Research Methods, 3 cr.
SOCI 332—Sociology of the Family, 3 cr. (online)
SOCI 434—Sociology of Human Sexuality, 3 cr. (online)

SPANISH
SPNS 101—Elementary Spanish I, 4 cr.
SPNS 102D—Elementary Spanish II, 4 cr.
SPNS 335IH—Travel in Latin America Literature and Film, 3 cr.

STATISTICS
STAT 216Q*—Introduction to Statistics, 3 cr. (on campus)
STAT 216Q*—Introduction to Statistics, 3 cr. (online)
STAT 217Q*—Intermediate Statistical Concepts, 3 cr.
*Sections offered both first and second 6-week sessions

SURVEYING
SRVY 230—Introduction to Surveying for Engineers, 3 cr.

SUSTAINABLE FOOD AND BIOENERGY SYSTEMS
SFBS 296—Practicum: Towne’s Harvest, 3 cr.
SFBS 445R—Culinary Marketing: Farm to Table, 3 cr. (co-convened with SFBS 541)
SFBS 541—Culinary Marketing: Farm to Table, 3 cr. (co-convened with SFBS 445R)
Students seeking information regarding specific courses are encouraged to contact the appropriate academic departments. Following is a list of course rubrics with the contact phone numbers and email addresses of the overseeing departments.

<table>
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<th>DEPARTMENTAL CONTACTS</th>
<th>PHONE NUMBER</th>
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<td>ACTG College of Business</td>
<td>994-4681</td>
<td><a href="mailto:business@montana.edu">business@montana.edu</a></td>
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<tr>
<td>AGBE Dept. of Agricultural Economics</td>
<td>994-3702</td>
<td><a href="mailto:aboyd@montana.edu">aboyd@montana.edu</a></td>
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<tr>
<td>AGED Division of Agricultural Education</td>
<td>994-2132</td>
<td><a href="mailto:aged@montana.edu">aged@montana.edu</a></td>
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<tr>
<td>AMST College of Letters and Science</td>
<td>994-5205</td>
<td><a href="mailto:dcherry@montana.edu">dcherry@montana.edu</a></td>
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<tr>
<td>ANTH Dept. of Sociology &amp; Anthropology</td>
<td>994-4201</td>
<td><a href="mailto:crismond@montana.edu">crismond@montana.edu</a></td>
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<tr>
<td>ARCH School of Architecture</td>
<td>994-5772</td>
<td><a href="mailto:rortego@montana.edu">rortego@montana.edu</a></td>
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<tr>
<td>ARNR Dept. of Animal &amp; Range Sciences</td>
<td>994-5582</td>
<td><a href="mailto:deniset@montana.edu">deniset@montana.edu</a></td>
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<tr>
<td>ARTH School of Art</td>
<td>994-4501</td>
<td><a href="mailto:art@montana.edu">art@montana.edu</a></td>
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<tr>
<td>ARTZ School of Art</td>
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<tr>
<td>ASTR Dept. of Physics</td>
<td>994-6186</td>
<td><a href="mailto:sbarutha@physics.montana.edu">sbarutha@physics.montana.edu</a></td>
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<tr>
<td>BCH Dept. of Chemistry &amp; Biochemistry</td>
<td>994-4801</td>
<td><a href="mailto:chemistry@chemistry.montana.edu">chemistry@chemistry.montana.edu</a></td>
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<td>BIOE Dept. of Ecology</td>
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<td>BIOH Dept. of Cell Biology &amp; Neuroscience</td>
<td>994-5120</td>
<td><a href="mailto:cbn@cns.montana.edu">cbn@cns.montana.edu</a></td>
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<td>994-2111</td>
<td><a href="mailto:cedept@ce.montana.edu">cedept@ce.montana.edu</a></td>
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2014 Summer Online Courses

Online courses offer a flexible alternative to attending the traditional classroom by delivering a variety of educational resources via the Internet. Whether you’re working a summer job, leaving Bozeman for a few months, or just trying to fit an extra class into your schedule, you can still begin or continue your MSU education by enrolling in one or more online courses.

Please note: The courses listed beginning on p. 36 reflect the summer class schedule as of December 2013. Since that time, some courses may have been added and other courses cancelled. For the most current information, please refer to the following websites:

• For Registrar courses: See the 2014 Summer Class Schedule (access instructions, p. 26)
• For Extended University courses: Go to http://eu.montana.edu/online

How Do Online Courses Work?
Online courses—also known as distance delivery courses—use a personal computer to connect participants from across the country and around the world via the Internet. Distance courses at MSU are offered on Desire2Learn, an online course delivery tool that allows students and instructors to interact with each other as a learning community on the Web.

Generally speaking, in an online course, you can expect to:
• connect via the Internet with a personal username and password
• participate in a course with set start and end dates (many classes have been developed with a structure similar to traditional on-campus courses with due dates tied to assignments, readings, and other course-related activities)
• proceed through course requirements together with your class, but be able to access the course at a time of day that is convenient to you
• make a time commitment that is about the same as for an on-campus course

Is Online Learning Right for Me?
Learning at a distance requires a different set of resources than traditional face-to-face learning. If you’re thinking about taking an online course but are not quite sure if you’re ready to make the commitment, take the interactive quiz at http://eu.montana.edu/online/quiz to help you decide.

Whether it’s face-to-face or online, a typical three-credit course offered over six weeks requires approximately 20 hours of time per week (in the classroom and outside of class). Such a course is equivalent to a half-time load.

Online instruction provides a level of flexibility that students find attractive. Also, with appropriate effort, the level of student-to-student and student-to-teacher interaction can exceed that of a face-to-face class. However, success in this environment requires a personal commitment and responsibility that is often much greater than that required in a face-to-face class. Before registering for an online course, think carefully about whether or not you have what it takes to be successful.

Learning to Use Desire2Learn
Information on how to use Desire2Learn is available via the Desire2Learn login page at https://ecat.montana.edu.

Required Equipment
At a minimum, online courses require:
• A computer running either Windows XP or higher or Mac OS 10.X.X
• A current browser
• Internet access

To ensure that you are using a supported browser and your settings are optimized for the best possible online learning experience, go to the Desire2Learn login page (address listed above) and click on the “System Check” link.

How to Register
• Registrar Courses
You must be admitted to MSU in order to enroll in online courses offered through the Registrar; refer to the Admissions section starting on p. 6 of this bulletin for more information.

Registration for online courses is done in the same manner as that for on-campus courses. Refer to the Registration section starting on p. 4 for more information. Online courses and on-campus courses are listed together, along with Course Reference Numbers (CRN), in the Summer Class Schedule (see access instructions, p. 26).

• Extended University Courses
If you would like to register for a course through Extended University, please visit Extended University’s credit course web page at http://eu.montana.edu/credit for a listing of summer course offerings and information on how to register for Extended University courses.

Fees
• Registrar Courses
Fees for online courses are the same as those charged for on-campus courses. Please refer to p. 13 for a 2014 summer fee schedule.

• Extended University Courses
Fees for online courses vary; refer to the Extended University Tuition, Fees and Financial Aid page, http://eu.montana.edu/online/cost, for specific courses and fees.

Getting Started
Prior to the first day of class, Extended University students will receive notification (via email or regular mail) with information regarding required materials and how to login. Students enrolled in courses through the Registrar should check their official MSU email box for this notification.

MSU-Bozeman participants may use either their first.last Desire2Learn username or their NetID to login to Desire2Learn (D2L). Important: With either ID, D2L requires participants to use the password associated with their NetID to log in to D2L. Find out your first.last D2L username and/or your NetID via the Secure Area of MyInfo (www.montana.edu; click on “MyInfo” at bottom of page).

Set your NetID password at MSU’s Password Help Page: http://password.montana.edu.
Once you know your first.last D2L username or NetID, you can login to Desire2Learn by going to http://ecat.montana.edu; use either Username coupled with your NetID password.

Summer courses will be made active by the first day of class.

For More Information
For more information about online learning, visit the Distance Learning Resources Web page at http://eu.montana.edu/online/about. You’ll find links to information about Desire2Learn as well as a full range of student services, library resources, and a comprehensive FAQ page.

2014 Summer Session Dates

<table>
<thead>
<tr>
<th>First session (6 weeks)</th>
<th>May 12-June 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second session (6 weeks)</td>
<td>June 23-Aug. 1</td>
</tr>
<tr>
<td>Full semester (12 weeks)</td>
<td>May 12-Aug. 1</td>
</tr>
<tr>
<td>Intersession</td>
<td>Dates vary; see individual courses</td>
</tr>
</tbody>
</table>

The following courses will be offered fully online during Summer Session 2014.

Undergraduate Courses

Enroll through Registrar

AMST 401R—Seminar in American Studies
6 weeks (first session), 4 cr.
Instructor: Robert Rydell

ANTY 252IS—Mysteries of the Past
6 weeks (first session), 3 cr.
Instructor: Michael Neeley

ANTY 343—Popular Culture – Japan
6 weeks (first session), 3 cr.
Instructor: Tomomi Yamaguchi

BGEN 242D—Introduction to International Business
6 weeks (first session), 3 cr.
Instructor: Mike Kroff

BGEN 499—Business Senior Seminar
6 weeks (first session), 4 cr.
Instructor: Myleen Leary

BMGT 205—Professional Communication Fundamentals
6 weeks (first session), 3 cr.
Instructor: Tammy Olsztyn

BMGT 335—Management and Organization
6 weeks (first session), 3 cr.
Instructor: Virginia Bratton

BMIS 311—Management Information Systems
12 weeks (full semester), 3 cr.
Instructor: Jerry Carvalho

BMKT 325—Principles of Marketing
6 weeks (first session), 3 cr.
Instructor: TBA

CHTH 205—Drugs and Society
6 weeks (first session), 3 cr.
Instructor: TBA

CHTH 435—Human Response to Stress
6 weeks (offered both first and second sessions), 3 cr.
Instructor: Dawn Tarabochia

COA 205—Introduction to Coaching
12 weeks (full semester), 3 cr.
Instructor: Craig Stewart

COA 405—Advanced Concepts in Coaching
12 weeks (full semester), 3 cr.
Instructor: Craig Stewart

CS 145RA—Web Design
6 weeks (second session), 3 cr.
Instructors: Hunter Lloyd

ECIV 220CS—Civil Engineering and Construction: From the Ancient to the Modern
6 weeks (first session), 3 cr.
Instructor: Anders Larsson

ECIV 331—Engineering Hydrology
6 weeks (second session), 2 cr.
Instructor: TBA

EDU 370—Integrating Technology into Education
8 weeks (May 6-June 27), 2 cr.
Instructor: Nicholas Lux

EELE 203—Circuits II for Engineering
12 weeks (full semester), 4 cr.
Instructor: James Becker

EGEN 201—Engineering Mechanics: Statics
6 weeks (first session), 3 cr.
Instructor: Anders Larsson

EGEN 202—Engineering Mechanics: Dynamics
6 weeks (first session), 3 cr.
Instructor: TBA

EGEN 205—Mechanics of Materials
6 weeks (second session), 3 cr.
Instructor: TBA

EGEN 335—Fluid Mechanics
6 weeks (second session), 3 cr.
Instructor: Joel Cahoon

FCS 101IS—Individual & Family Development and Well-Being: Lifespan
6 weeks (first session), 3 cr.
Instructor: Holly Hunts

FCS 261—Adult Development and Aging
6 weeks (second session), 3 cr.
Instructor: Sandra Osborne

FCS 263—Relationships and Family Systems
6 weeks (first session), 3 cr.
Instructor: TBA

FCS 371—Research Methods in Health and Human Development
8 weeks (June 9-Aug. 1), 3 cr.
Instructor: Craig Stewart

HSTA 102IH—American History II
6 weeks (first session), 4 cr.
Instructor: Tim LeCain

HSTR 101IH—Western Civilization I
6 weeks (first session), 4 cr.
Instructor: David Cherry

HSTR 160D—Modern World History
6 weeks (first session), 4 cr.
Instructor: Brett Walker

HTH 220—Human Sexuality
6 weeks (first session), 3 cr.
Instructor: TBA

KIN 221—Health Anatomy and Physiology
8 weeks (June 9-Aug. 1), 3 cr.
Instructor: Ryan Johnson

LIT 285D—Mythologies
6 weeks (first session), 3 cr.
Instructor: Marvin Lansverk

LSCI 121—Electronic Library Research Skills
6 weeks (first session), 2 cr.
Instructor: TBA

M121Q—College Algebra
6 weeks (first session), 3 cr.
Instructor: James Thull

MART 145RA—Web Design
6 weeks (second session), 3 cr.
Instructor: Hunter Lloyd
MUSI 101A—Enjoyment of Music  
6 weeks (first session), 3 cr.  
Instructor: Kirk Aamot

NUTR 221CS—Basic Human Nutrition  
12 weeks (full semester), 3 cr.  
Instructor: TBA

PHL 101IH—Introduction to Philosophy: Reason and Reality  
6 weeks (first session), 3 cr.  
Instructor: Prasanta Bandyopadhyay

PSCI 210IS—Introduction to American Government  
6 weeks (first session), 3 cr.  
Instructor: Elizabeth Shanahan

PSYX 375—Behavior Modification  
6 weeks (first session), 3 cr.  
Instructor: Shawna Heiser

RLST 100D—Introduction to the Study of Religion  
6 weeks (second session), 3 cr.  
Instructor: Holly Grether

RLST 203D—Buddhist Traditions  
6 weeks (first session), 3 cr.  
Instructor: Holly Grether

SOCI 101IS—Introduction to Sociology  
6 weeks (second session), 3 cr.  
Instructor: Scott Myers

SOCI 332—Sociology of the Family  
6 weeks (first session), 3 cr.  
Instructor: Danielle Hidalgo

SOCI 434—Sociology of Human Sexuality  
6 weeks (first session), 3 cr.  
Instructor: Danielle Hidalgo

STAT 216Q—Introduction to Statistics  
6 weeks (offered both first and second sessions), 3 cr.  
Instructors: TBA

TE 250CS—Technology and Society  
12 weeks (May 12-Aug. 1), 3 cr.  
Instructor: Lidia Haughey

6 weeks (second session), 3 cr.  
Instructor: TBA

WRIT 101W—College Writing I  
6 weeks (first session), 3 cr.  
Instructor: Josef Verbanac

Course schedule available at https://atlas.montana.edu:9000/pls/bzagent/bzskcrse.PW_SELSClасс (select Term, Subject, and Search Class)

NURSING—Undergraduate and Graduate Courses

Summer 2014 Courses  
Enroll through Registrar  

NRSG 115—Nursing as a Profession, 2 cr.

NRSG 220—Foundations of Ethical Nursing Recitation, 2 cr.

NRSG 258—Principles of Pathophysiology, 3 cr.

NRSG 503—Curriculum Development, 3 cr.

NRSG 519—Pharmacotherapeutics for Middle Age Adults, 1 cr.

NRSG 526—Family Mental Health Nursing II, 6 cr.

NRSG 529—Psychopharmacotherapeutics Across the Lifespan, 3 cr.

Course descriptions available at http://www.montana.edu/wwwcat/courses/nrsg.html

Course schedule available at https://atlas.montana.edu:9000/pls/bzagent/bzskcrse.PW_SELSClасс (select Term, “NRSG” for Subject, and Search Class)

SUMMER MASTER’S DEGREE PROGRAMS

Note: The following programs include both online and on-campus courses. Only the Summer 2014 online offerings are listed below. For complete program details and course listings, please see the Summer Master’s Degree Programs section starting on p. 56.

Master of Science in Mathematics (Mathematics Education Option)

Enroll through Registrar  

M 523—Number Structures for Teachers, 3 cr.

Enroll through Extended University  

M 518—Statistics for Teachers, 3 cr.

Master of Science in Science Education (MSSE)

Enroll through Extended University  

BIOE 513—Terrestrial Ecology of Plains and Prairies, 1 cr.

BIOE 519—Biology of Riparian Zones and Wetlands, 2 cr.

BIOE 591—Anatomy and Physiology, 3 cr.

CHMY 591—Exploring Chemistry for Teachers, 3 cr.

CHMY 591—Exploring Biochemistry for Teachers II, 3 cr.

EDCI 536—Construction of Curriculum, 3 cr.

EDCI 536—Data Driven Decisions, 3 cr.

Course descriptions available at http://www.montana.edu/wwwcat/courses/courses2.html

Course schedule available at https://atlas.montana.edu:9000/pls/bzagent/bzskcrse.PW_SELSClасс (select Term, “EDCI” or “EDLD” for Subject, and Search Class)
MSSE 501—Inquiry through Science and Engineering Practices, 2 cr.
MSSE 591—Capstone Data Analysis, 2 cr.
MSSE 591—Web Tools for Science Teachers, 3 cr.

Course descriptions available at http://www.montana.edu/wwwcat/courses/courses2.html
Course schedule available at https://atlas.montana.edu:9000/pls/bzagent/bzskcrse.PW_SelSchClass (select Term, Subject, and Search Class)

**NATIONAL TEACHERS ENHANCEMENT NETWORK (NTEN)**

About NTEN
The National Teachers Enhancement Network (NTEN) is one of the country’s most-established online professional development programs for teachers. Courses are designed to help elementary, secondary and community college teachers develop a deeper understanding of science concepts while interacting with and learning new techniques from other teachers and researchers around the globe.

NTEN faculty are university scientists, engineers, mathematicians, and science educators, all experienced in online teaching. Through NTEN, educators can also access professional resources and discuss issues with other educators online. NTEN was created by Montana State University and originally funded by the National Science Foundation. NTEN is part of the National Science Teachers Association (NSTA) Institute, and members receive a discount on some courses.

How is NTEN different from other online science programs?
- NTEN strives to teach science concepts, not just educational methods
- NTEN faculty practice a hands-on, inquiry-based style that mirrors the classroom and sparks new ideas
- NTEN facilitates connections among participants, so that teachers learn best practices from colleagues around the world
- NTEN credits come from Montana State University, a top-tier public research institution

For general information and registration:
http://eu.montana.edu/NTEN
(406) 994-6812
(800) 282-6062

Registration for Summer will open in March!

**Summer 2014 Courses**
**Enroll through Extended University at eu.montana.edu/NTEN**

**BIOL 591—Plant Science: It Grows on You**
June 3-July 21, 1 credit
Designed for K-8 grade teachers
This course will look at familiar seeds and their early growth into seedlings (with experimentation with the seedlings). You will grow the little mustard known as Brassica, the Wisconsin Fast Plant. It is called the fast plant because it goes from seed to seedling to mature plant with flowers and fruits, and back to seed, in six weeks. In order to get the plant to grow satisfactorily, you must have a grow-light (shipped as part of your materials) that can be on 24/7 (24 hours a day all week) for the entire six weeks, and you must get the seeds planted on Day 0.

The goals of this course are to:
- Watch seeds germinate
- Learn about uptake of water in seeds
- Think about seeds as food
- Observe how plants respond to gravity
- Learn the parts of a flower
- Act like a pollinating bee
- Watch a flower part turn into fruit with seeds

You will keep journals with growth data, answer questions from the instructor based on your journals and the manual, and participate in discussions. If you are already familiar with Wisconsin Fast Plants, you can participate in this class with more experimentation with your plants.

**CHMY 591—Environmental Measurement: Sensors and Electronics for Research**
June 16-Aug. 15, 3 credits
Designed for 9-12 grade teachers
Chemists and scientists in other fields can profit from an understanding of the electronic principles involved in the use of common environmental sensors—sensors for measurement of light, high resolution measurement of temperature, colorimetry, turbidity, and thermocouple high temperature measurements—and the simple electronic circuits that support them. These circuits are also suitable for pH and pressure measurements. This course’s “hands-on” approach introduces digital voltmeters and simple DC circuits, operational amplifiers, basic principles of digital logic and counting circuits, and analog-to-digital conversion.

**EDCI 591—Environmental Science Education: Summer Ecological Field Studies**
June 30-Aug. 15, 3 credits
Designed for 6-12 grade teachers
This course is designed for educators of children in grades 6-12 to learn and practice basic ecological field techniques and integrate them into their instruction. This course focuses on summer field ecological studies including stream, forest, plant and bird studies. All studies will be completed outdoors in your local environment. A wide variety of field study techniques will be presented and the participants will share the results of the studies. Basic ecological concepts will be presented in the context of the field studies. Participants will have many opportunities to share their views on a variety of topics related to the environment and education. This course is a great opportunity to meet and interact with educators throughout the U.S. whose work focuses on ecology and young people.

Summer ecological field study activities will include:
- Herbarium compilation
- Local flora description; plants species list
- Vertical structure of a forest
- Grass, canopy and flying invertebrates population
• Birds’ nesting behavior
• Complex comparative description of small rivers and streams
• Study of aquatic invertebrates and assessment of environmental status
• Plankton investigation in the near shore part of lake or pond
• The estimation of ecological situation of grasslands and meadows using ecological ordination techniques
• The estimation of ecological health of the forest based on leaf symmetry observations

This is a practical course in teaching about the environment and working with children. We are looking for a good distribution of 6-12 grade educators and would like representation from as many regions of the U.S. as possible. This will help insure a wide variety of results and good opportunities to compare ecosystems and regions of the country. We also want individuals who are planning to implement the field study techniques in their classroom or with groups of students in informal settings. We will encourage you to share how you will adapt or adopt these techniques to your own teaching and ecological situation. Everyone’s situation is different and we can learn much from each other. It is not required that you actually teach these field studies to children as part of the course but we do encourage you to do the studies with other people who can share their impressions of the activity with you.

EDCI 591—History of Space Flight and Space Technology
June 2-Aug. 15, 3 credits
Designed for 6-12 grade teachers

The purpose of this course is to introduce space science concepts associated with exploration and technology to build core knowledge that can be incorporated into the classroom.

Upon successful completion of this course, students will be able to do the following:
• Timeline robotic exploration and development from 1958 to 2009
• Timeline human exploration from 1961 to 2009
• Understand scientific breakthroughs accredited to the space program

• Understand the historical significance of space flight and the impact it has had on national identity
• Evaluate the potential for future exploration and utilization of solar system resources

ERTH 591—Fundamentals of Oceanography
June 2-Aug. 8, 3 credits
Designed for 7-12 grade teachers

Fundamentals of Oceanography offers an introduction to the physical, biological, chemical and geological processes of the ocean and its ecosystems. Teachers will learn about the complex interactions between these properties, their influence on terrestrial ecosystems and the impacts humans have on these processes. Exciting laboratory exercises can be adapted to be offered at any grade level.

ERTH 591—Understanding Climate Change
June 16-Aug. 8, 3 credits
Designed for 9-12 grade teachers

The science of climate change is a complex subject that balances the physical record and scientific fact with politics, policy, and ethics. This course explores the science of climate change. Students will learn how the climate system works, what factors cause climate to change across different time scales and how those factors interact. We will also explore how climate has changed in the past and how scientists use models, observations and theory to make predictions about future climate. Finally we will examine the possible consequences of climate change for our planet.

The course explores evidence for changes in land and ocean temperature, changes in the cryosphere, sea level and acidity change due to global warming. Students will learn how climate change today is different from past climate cycles and how satellites and other technologies are revealing the global signals of a changing climate. Finally, the course looks at the connection between human activity and the current warming trend and considers some of the potential social, economic and environmental consequences of climate change.

HDFN 580—Food and Nutrition Across the Elementary Curriculum
June 2-July 17, 1 credit
Designed for K-8 grade teachers
Enroll in this six-week, one-credit graduate course and enhance:
• Your personal understanding of food and nutrition concepts and issues
• Your exposure to hands-on activities and lesson-plans appropriate across disciplines in the elementary classroom
• Your ability to be a knowledgeable resource/team member for your school’s/district’s School Wellness Committee
• Your understanding of “Farm to School” and the role of school gardens in the elementary curriculum

LRES 591—Streamside Science: Hands-On Approaches to Water Quality Education
June 9-Aug. 10, 3 credits
Designed for 8-12 grade teachers

The primary goal of this course is to increase the water resource knowledge of students through hands-on, field-based curriculum. To accomplish this, students will be asked to adopt a local stream and perform lab assignments “in the field” to better understand hands-on water quality monitoring techniques. The course will improve the teaching skills of secondary science teachers utilizing distant delivery technologies. By completing this course, secondary science teachers will have a better understanding and hands-on working knowledge of the characterizaton and quantification of water quality as it relates to secondary school science curriculum and environmental issues on a global scale. Curriculum standards will be linked to each lesson plan so that teachers can easily incorporate the content into their core curriculum.

MATH 518—Statistics for Teachers
June 9-July 25, 3 credits
Designed for 9-12 grade teachers

Stochastic concepts including probabilistic underpinnings of statistics, measures of central tendency, variability, correlation, distributions, sampling, and simulation. Exploratory data analysis including experiments, surveys, measures of association and inferential statistics. Discussion of methods for teaching statistics in secondary mathematics and science.
ONLINE COURSES

MB 542—Microbial Ecology
May 27-Aug. 15, 3 credits
Designed for 7-14 grade teachers

This course will provide students with fundamental knowledge of microbial ecology and its methods. The ecology of microorganisms in relation to nutrition, growth, control, metabolism, biogeochemical cycling, natural environments and microbial interactions will be covered. Readings from the text and other sources, discussions, and assignments will be included to facilitate learning and for evaluation. This course is intended for middle, high school, and lower level college teachers, as well as others in education roles e.g. at nature facilities such as zoological and national parks.

NUTR 524—Teaching Adolescent Nutrition
June 16-Aug. 8, 2 credits
Designed for 6-12 grade teachers

Nutrition habits of children and teens are known to have an impact on their present and future health, their ability to learn and physical performance (athletics). However, many of these young people are not making the grade nutritionally. For example:

• The rate of obesity has doubled in the past decade
• Symptoms of adult diseases (diabetes, hypertension, heart disease) are showing up in younger children and teens
• During the important growth period of adolescence many teen diets lack the recommended amounts of key nutrients essential for optimal growth
• According to a recent study done by the U.S. Department of Agriculture, only one percent of children met all of the nutrition recommendations of the 2010 Dietary Guidelines for Americans.
• Eating disorders are on the rise, particularly in young men

Throughout this course teachers will investigate various content areas applicable to adolescent nutrition and discuss if and how a School Wellness Policy can influence these nutrition topics. Teachers will want to obtain a copy of their school’s or school district’s wellness policy if it has one. These content areas include:

• Current concerns and health statistics relative to adolescent nutrition
• Key nutrients of concern in adolescent diets
• Sports nutrition
• Dietary supplements
• Eating disorders and body image
• Using the MyPlate tool to create a daily meal plan
• The 2010 Dietary Guidelines for Americans
• Food safety
• The important role of the school environment in supporting sound nutrition

Selected classroom resources, which engage the student and provide for experiential learning, will be highlighted for all content areas. Course participants will be required to complete weekly reading assignments, take part in online discussion (asynchronous), submit two short assignments, and complete an independent course project: either 1) develop two nutrition lessons which make use of resources reviewed in class, or 2) develop a plan for implementing a major objective of the school wellness policy.

PHSX 513—Quantum Mechanics
May 27-Aug. 8, 3 credits
Designed for 9-12 grade teachers

Can quantum mechanics be made SIMPLE? What lies behind wave functions and Schrödinger’s wave equation? How is the microscopic world really put together? Can one explore the peculiar quantum world without resorting to complicated mathematical treatment? In his popular little book, QED, The Strange Theory of Light and Matter, Richard Feynman reduces the rules of quantum mechanics to a simple command for the electron and the photon: Explore all paths. In 1948 Feynman proved that this command leads to all the same results as the usual quantum wave mechanics.

Our course studies the command “Explore all paths” and its consequences. Using hands-on software, you experiment with the quantum world illustrated in Feynman’s book. You excise the rules of the quantum mechanics to explain real world observations. On the on-line forum, you discuss with other participants the deep paradoxes of quantum mechanics. But deep does not mean mathematical: NO EQUATIONS until one-third of the way through the course. Without needing equations, you watch the quantum wave function emerging as a natural consequence of the command “Explore all paths.”

PHSX 491—Conceptual Physics
June 23-Aug. 10, 3 credits
Designed for 7-12 grade teachers

This course describes the workings of the world around us. The everyday: how a ball moves when it is thrown, the forces you feel on a roller-coaster, what happens when you turn on a light switch; and the esoteric: time and space from the perspective of Einstein’s relativity, the basic structure of atoms and nuclei. The course is mostly at the conceptual level, with some simple algebraic problem solving. A unique feature of the class is a series of at-home experiments using simple materials to illustrate some basic ideas of physics.

PHSX 511—Astronomy for Teachers
June 2-Aug. 22, 3 credits
Designed for 6-12 grade teachers

Astronomy has long been a subject that captures the imagination of young students and provides a framework for teaching many kinds of science. This course, specially designed for practicing science teachers at the middle and high school levels, serves as a survey of topics in astronomy, with special emphasis on the latest advances. The topics are closely aligned with the concepts emphasized in the NRC National Science Education Standards. Our textbook is a very complete, very up-to-date, very readable source that teachers will want to keep as a reference. Our instructional strategy focuses on readings from the textbook, exercises that clarify the concepts and collaborative internet group discussions that correct misunderstandings and deepen insights.

PHSX 591—The World of Motion
June 2-July 17, 1 credit
Designed for 3-8 grade teachers

In this fast-moving six-week course, we will focus on the fascinating concepts of measurement and motion, and how they relate to hands-on physical science in the elementary classroom.
The goals of this course are to:
• Gain a thorough understanding of the concepts of velocity and acceleration, central to a description of motion
• Learn how to describe motion graphically and using data tables
• Study how children’s concepts of motion are developed in the classroom setting
• Become more effective users of inquiry-based curricular materials in teaching about motion
• Learn about supplementary materials that help connect motion concepts to Native American cultures and communities
• Develop our own professional community of course participants, sharing teaching ideas, expertise and experience

PHSX 591—Electric Circuits and Magnetism
June 16-Aug. 10, 2 credits
Designed for 5-8 grade teachers

This two-credit course is designed for practicing teachers who are teaching basic electric circuits as part of the science curricula in their classrooms. Its broad purpose is to introduce experienced teachers to core concepts in electric circuits, as those ideas relate to modern hands-on, inquiry-oriented science curricular materials. By helping teachers improve their understanding of the underlying physics, this course will enable them to teach electric circuits more effectively.

The specific course goals are as follows:
• To deepen teachers’ understanding of basic physics principles underlying electric circuits
• To enhance teachers’ ability to convey concepts of electric circuits through inquiry approaches to learning
• To encourage the sharing of resources and pedagogical methods among course participants
• To strengthen teacher knowledge and confidence in teaching electric circuits, and to develop their ability to critically analyze and use commercially available resources
• To briefly introduce magnetism, differentiating electric charge and magnet poles and observing the connection between an electric current and a magnetic field

This course will be taught as an online, D2L-based course involving significant student-instructor and student-student interaction, student team participation in course homework assignments, and independent study. The time commitment will be approximately 11-12 hours per week for eight weeks. Course work will involve a mixture of online discussion, hands-on (lab-type) activities, readings from assigned and independently researched sources, and online quizzes.

SCHOOL LIBRARY MEDIA CERTIFICATION PROGRAM

The online School Library Media Certification Program is housed in the Dept. of Education in the College of Education, Health & Human Development and is delivered through MSU Extended University.

If you are interested in acquiring certification to become a school library media specialist or taking recertification credits, please consider joining us. The Library Media website contains most of the information you need in order to plan your route to certification and to select courses.

We have received official approval from accreditation officials in Alaska, Colorado, Idaho, Montana, Oregon, South Dakota, North Dakota, Washington, and Wyoming. Many other states accept our program as well. Our education programs are accredited by the Montana Office of Public Instruction and the Montana Board of Public Education, and we participate in the National Association of State Directors of Teacher Education and Certification’s (NASDTEC) Interstate Contract.

Library Media Program website: www.montana.edu/libmedia/index.html

Summer 2014 Courses
Enroll through Extended University

EDCI 549—Applications of Literature for Children and Young Adults, 3 cr.
EDCI 598—Internship in Library Media, 3 cr.

For additional information about admission contact:
Library Media Program
Montana State University
P.O. Box 172880
Bozeman, MT 59717-2880
Tel: (406) 994-3120
Fax: (406) 994-3261
E-mail: libmedia@montana.edu
Location: 222 Reid Hall

FAMILY FINANCIAL PLANNING

MSU offers a Master of Science Degree in Health & Human Development with an option in Family Financial Planning through the Great Plains Interactive Distance Education Alliance. The entire program is delivered online through Extended University and a consortium of eight state universities, including MSU. Students enrolled in the degree program have first priority to enroll in the courses. Students not enrolled in the program may register if room is available.

Summer 2014 Courses
Enroll through Extended University

HDFP 525—Retirement Planning, Employee Benefits and the Family, 3 cr.
HDFP 545—Family Economics, 3 cr.
HDFP 550—Housing and Real Estate, 3 cr.
HDFP 560—Financial Counseling, 3 cr.
HDFP 572—Case Studies, 3 cr.
HDFP 575—Professional Paper, 3 cr.
HDFP 576—Professional Practicum, 3 cr.

To learn more about the program, contact:
Janine Hansen
jhansen@montana.edu
(406) 994-5240

or visit the website: http://eu.montana.edu/online/degrees/ffp
**LICENSED ADDICTION COUNSELOR CERTIFICATE PROGRAM**

The Licensed Addiction Counselor Certificate Program provides the required coursework credits towards the Montana Licensed Addiction Counselor credential. It also meets the criteria for the national Master Addiction Counselor certification.

The program is administered by the Dept. of Health & Human Development and is offered completely online by MSU Extended University. You must be accepted into the program to take courses.

**Summer 2014 Courses**
*Enroll through Extended University*

**LAC 505**—Cross-Cultural and Ethical Considerations in Addictions Counseling, 3 cr.

**LAC 507**—Theory of Counseling in Addiction Settings, 3 cr.

For more information, contact:
Lisa Brown
Extended University
lisa.brown@montana.edu
(406) 994-3062

or visit the website:
http://eu.montana.edu/online/degrees/LAC

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**EDUCATIONAL LEADERSHIP—SUPERINTENDENT CERTIFICATION**

The Superintendent Certification Program provides the required coursework for current principals to receive their superintendent endorsement by the Montana Office of Public Instruction.

The program is administered by the Dept. of Education and is offered completely online by MSU Extended University.

**Summer 2014 Courses**
*Enroll through Extended University*

Courses to be announced.

For more information, contact:
Lisa Brown
Extended University
lisa.brown@montana.edu
(406) 994-3062

or visit the website:
www.montana.edu/wwweduc/grad/edlead/
Summer Core Courses

The mission of MSU’s core curriculum is to enhance students’ use of multiple perspectives in making informed critical and ethical judgments in their personal, public and professional lives through inquiry and research experiences. Details regarding the core curriculum may be found at [www.montana.edu/wwwcat/requirements/reqs4.html](http://www.montana.edu/wwwcat/requirements/reqs4.html).

For incoming freshmen and current high school students accepted into the Early Admission Program, Summer Session core courses offer a jump start on a college career as well as an introduction to the level of work that is expected as a student at MSU. The courses also serve as a catch-up opportunity for continuing students who need to progress toward or complete their core requirements.

Core courses are designated by a letter following the course number, e.g., WRIT 101W. The following letters are used to specify the core groups:

- **US** - University Seminar
- **W** - College Writing
- **Q** - Quantitative Reasoning
- **D** - Diversity
- **CS** - Contemporary Issues in Science
- **IA** - Arts Inquiry or Research
- **RA** - Arts Research
- **IH** - Humanities Inquiry or Research
- **RH** - Humanities Research
- **IN** - Natural Science Inquiry or Research
- **RN** - Natural Science Research
- **IS** - Social Science Inquiry or Research
- **RS** - Social Science Research
- **R** - Additional Research and Creative Experience Courses

The following courses offered for Summer Session 2014 are listed by core groups. For information regarding dates, times and location of offerings, refer to the Summer Class Schedule online (see access instructions, p. 26 of this bulletin). For course descriptions, go to [www.montana.edu/wwwcat/courses/courses2.html](http://www.montana.edu/wwwcat/courses/courses2.html).

Please note: New courses may have been added to this listing since the time of publishing. For updates, go to [www.montana.edu/summer/corecourses.html](http://www.montana.edu/summer/corecourses.html).

### US—UNIVERSITY SEMINAR

- **AGED 140US** Leadership Development for Agriculture
- **COM 110US** Introduction to Public Communication

### W—COLLEGE WRITING

- **WRIT 101W** College Writing I

### Q—QUANTITATIVE REASONING

- **M 121Q** College Algebra
- **M 145Q** Mathematics for the Liberal Arts
- **M 151Q** Precalculus
- **M 161Q** Survey of Calculus
- **M 171Q** Calculus I
- **M 172Q** Calculus II
- **M 273Q** Multivariable Calculus
- **STAT 216Q** Introduction to Statistics
- **STAT 217Q** Intermediate Statistical Concepts

### D—DIVERSITY

- **BGEN 242D** Introduction to International Business
- **GPHY 141D** Geography of World Regions
- **GRMN 102D** Elementary German II
- **HSTR 160D** Modern World History
- **LIT 285D** Mythologies
- **NASX 105D** Introduction to Native American Studies
- **NASX 232D** Montana Indian Cultures, Histories, Current Issues
- **PHL 103D** Philosophy and Popular Culture
- **PSYX 235D** Contemporary Issues in Human Sexuality
- **RLST 100D** Introduction to the Study of Religion
- **RLST 203D** Buddhist Traditions
- **SPNS 102D** Elementary Spanish II

### CS—CONTEMPORARY ISSUES IN SCIENCE

- **ECIV 220CS** Civil Engineering and Construction: From the Ancient to the Modern
- **EGEN 125CS** Technology, Innovation, and Society
- **NUTR 221CS** Basic Human Nutrition
- **PSYX 263CS** Psychology of Film
- **TE 250CS** Technology and Society
### Core Courses Offered Online this Summer

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMST 401R</td>
<td>Seminar in American Studies</td>
</tr>
<tr>
<td>ANTY 252IS</td>
<td>Mysteries of the Past</td>
</tr>
<tr>
<td>BGEN 242D</td>
<td>Introduction to International Business</td>
</tr>
<tr>
<td>CS 145RA</td>
<td>Web Design</td>
</tr>
<tr>
<td>ECIV 220CS</td>
<td>Civil Engineering and Construction: From the Ancient to the Modern</td>
</tr>
<tr>
<td>FCS 101IS</td>
<td>Individual &amp; Family Development and Well-Being: Lifespan</td>
</tr>
<tr>
<td>HSTA 102IH</td>
<td>American History II</td>
</tr>
<tr>
<td>HSTR 101IH</td>
<td>Western Civilization I</td>
</tr>
<tr>
<td>HSTR 160D</td>
<td>Modern World History</td>
</tr>
<tr>
<td>LIT 285D</td>
<td>Mythologies</td>
</tr>
<tr>
<td>M 121Q</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MART 145RA</td>
<td>Web Design</td>
</tr>
<tr>
<td>MUSI 101IA</td>
<td>Enjoyment of Music</td>
</tr>
<tr>
<td>MUSI 203IA</td>
<td>American Popular Music</td>
</tr>
<tr>
<td>MUSI 307IA</td>
<td>World Music</td>
</tr>
<tr>
<td>PHOT 113RA</td>
<td>Understanding Photography</td>
</tr>
<tr>
<td>THTR 122IA</td>
<td>Acting for Non-Majors</td>
</tr>
<tr>
<td>FILM 104IH</td>
<td>Modes of Screen Drama</td>
</tr>
<tr>
<td>HSTA 102IH</td>
<td>American History II</td>
</tr>
<tr>
<td>HSTR 101IH</td>
<td>Western Civilization I</td>
</tr>
<tr>
<td>HSTR 102IH</td>
<td>Western Civilization II</td>
</tr>
<tr>
<td>PHL 101IH</td>
<td>Introduction to Philosophy: Reason and Reality</td>
</tr>
<tr>
<td>RLST 100D</td>
<td>Introduction to the Study of Religion</td>
</tr>
<tr>
<td>RLST 203D</td>
<td>Buddhist Traditions</td>
</tr>
<tr>
<td>SOCI 101IS</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>STAT 216Q</td>
<td>Introduction to Statistics</td>
</tr>
<tr>
<td>TE 250CS</td>
<td>Technology and Society</td>
</tr>
<tr>
<td>US 121US</td>
<td>Education, Social Issues, and the Digital Age</td>
</tr>
<tr>
<td>WRIT 101W</td>
<td>College Writing I</td>
</tr>
</tbody>
</table>

For a complete listing of “R” core courses, refer to the Summer Schedule of Classes.
Summer Science and Mathematics Courses for Pre-Med

**Post-Baccalaureate Pre-Medical Certificate Program**

In September of 2005, MSU received approval from the Montana Board of Regents to institute a Post-Baccalaureate Pre-Medical Certificate Program, through which students who have completed their bachelor’s level work at MSU or other four-year institutions may take the science and mathematics courses traditionally required for application to medical and dental schools.

For more information, visit the program’s Web page at: [www.montana.edu/dhs/hpa/postbaccadvising.html](http://www.montana.edu/dhs/hpa/postbaccadvising.html)

Summer Session 2014 offers the following series of science and mathematics courses designed to meet the special academic needs of students who plan to apply to medical or dental school. The scheduling for this series of courses has been developed to allow students to enroll in one of the Chemistry courses and one of the Physics, Mathematics, or Statistics courses during each of MSU’s two six-week summer sessions, thus enabling students to earn up to 16 science and mathematics credits in only 12 weeks. Another course available to pre-med students this summer is BIOH 201—Human Anatomy & Physiology I for 5 credits.

**Chemistry**

CHMY 141 – College Chemistry I, 4 cr.
CHMY 143 – College Chemistry II, 4 cr.
CHMY 321 – Organic Chemistry I, 4 cr.
CHMY 323 – Organic Chemistry II, 4 cr.

**Physics**

PHSX 205 – College Physics I, 4 cr.
PHSX 207 – College Physics II, 4 cr.

**Mathematics**

M 161 – Survey of Calculus, 4 cr.

**Statistics**

STAT 216 – Intro to Statistics, 3 cr.

**Biology**

BIOH 201 – Human Anatomy & Physiology I, 5 cr.

**COURSE DATES & TIMES**

**First 6-Week Session, May 12-June 20:**

**CHMY 141 – College Chemistry I, 4 cr.**

Lecture: MWRF 10:00-11:05 a.m.
T 10:00 a.m.-12:20 p.m.

Lab: MW 12:30-4:05 p.m.

**CHMY 321 – Organic Chemistry I, 4 cr.**

Lecture: MTRF 10:00-11:05 a.m.
W 10:00 a.m.-12:20 p.m.

Lab: M 12:00-3:35 p.m.
(select one) W 1:00-4:35 p.m.
or TR 12:00-3:35p.m.

**PHSX 205 – College Physics I, 4 cr.**

Lecture: MTWR 7:30-9:50 a.m.

**PHSX 207 – College Physics II, 4 cr.**

Lecture: MTWR 8:45-9:50 a.m.
W 7:30-8:35 a.m.

Lab: TR 10:00 a.m.-11:50 p.m.
(select one) TR 12:00-1:50 p.m.
or TR 2:00-3:50 p.m.
or TR 4:00-5:50 p.m.

**M 161 – Survey of Calculus, 4 cr.**

Lecture: MTWR 7:30-9:50 a.m.

**STAT 216 – Intro to Statistics, 3 cr.**

Lecture: MTR 7:30-9:50 a.m.
(select one) or MTR 10:00 a.m.-12:20 p.m.

**Second 6-Week Session, June 23-August 1:**

**CHMY 143 – College Chemistry II, 4 cr.**

Lecture: MWRF 10:00-11:05 a.m.
T 10:00 a.m.-12:20 p.m.

Lab: MW 12:30-4:05 p.m.

**CHMY 323 – Organic Chemistry II, 4 cr.**

Lecture: MTRF 10:00-11:05 a.m.
W 10:00 a.m.-12:20 p.m.

Lab: M 12:00-3:35 p.m.
(select one) W 1:00-4:35 p.m.
or TR 12:00-3:35p.m.

**PHSX 205 – College Physics I, 4 cr.**

Lecture: MTWR 7:30-9:50 a.m.

**PHSX 207 – College Physics II, 4 cr.**

Lecture: MTWR 8:45-9:50 a.m.
W 7:30-8:35 a.m.

Lab: TR 10:00 a.m.-11:50 p.m.
(select one) or TR 12:00-1:50 p.m.
or TR 2:00-3:50 p.m.

**M 161 – Survey of Calculus, 4 cr.**

Lecture: MTWR 7:30-9:50 a.m.

**STAT 216 – Intro to Statistics, 3 cr.**

Lecture: MTR 7:30-9:50 a.m.
(select one) or MTR 10:00 a.m.-12:20 p.m.

Please refer to the Summer Class Schedule at [www.montana.edu](http://www.montana.edu) (MyInfo) for more detailed information regarding course reference numbers (CRN), class locations and instructors.

**COURSE DESCRIPTIONS**

**CHMY 141 – College Chemistry I, 4 cr.**

Prerequisite: Successful completion of M 121Q – College Algebra, or placement in a math level 4 course (Survey of Calculus or Precalculus)

The first of a two-semester course sequence about the general principles of modern chemistry with emphasis on atomic structure, chemical bonding, the periodic table, equilibria, chemical reactivity and kinetics.

**CHMY 321 – Organic Chemistry I, 4 cr.**

Prerequisite: CHMY 143 or CHMY 153

The first of a two-semester professional sequence in organic chemistry. In-depth coverage of stereochemistry, synthetic organic chemistry, physical organic chemistry, spectroscopy and nomenclature. Students should register for both semesters.

**CHMY 323 – Organic Chemistry II, 4 cr.**

Prerequisite: CHMY 321

The second semester of the two-semester professional sequence in organic chemistry.
PHSX 205 – College Physics I, 4 cr.
Prerequisite: High school trigonometry or M 151
This course is algebra-based.
First semester of sequence. Topics include kinematics and dynamics of linear and rotational motion, work and energy, impulse and momentum, and fluids. Students will not receive credit if they have passed PHSX 220 or PHSX 240.

PHSX 207 – College Physics II, 4 cr.
Prerequisite: PHSX 205 or PHSX 220
This course is algebra-based.
Second semester of sequence. Topics include simple harmonic motion, electric forces and fields, dc electric circuits, magnetic forces and fields, and magnetic induction and motors. Students will not receive credit if they have passed PHSX 222 or PHSX 242.

M 161 – Survey of Calculus, 4 cr.
Prerequisite: M 121 or Math Placement Test within the past 12 months
A survey of basic calculus including limits, differentiation, and integration with applications to business, biology, and social science problems.

STAT 216 – Intro to Statistics, 3 cr.
Prerequisite: C- or better in any 100 level or above M course, or Math Placement Test within the past 12 months
Traditional and robust estimates of location and variability, fundamentals of probability theory, confidence intervals, and tests of hypothesis for normal distributions.

BIOH 201 – Human Anatomy & Physiology I, 5 cr.
Prerequisites: CHMY 121, CHMY 141, or CHMY 151 with a grade of “C-” or better. Priority given to majors requiring this course.
General principles of cell and tissue biology that apply to all living systems. Structure and function of skeletal, muscular, nervous, and endocrine systems. Homeostasis, control, and integration of the human body will be emphasized. Laboratory will cover related systems. This course is not repeatable without prior consent of instructor.

ADMISSION TO MSU
Admission to MSU is required and must be completed prior to registration for the Summer Science and Mathematics Courses.

New Students
Students not previously admitted to MSU must apply for admission to the University.

Undergraduates
Undergraduate students should apply for admission by following the steps below:
• Complete the MSU Application for Admission available online at www.montana.edu/wwwcat/appopts.html
• Complete a paper application (available from the MSU Admissions Office: (406) 994-2452 or admissions@montana.edu)
• Submit the application along with the application fee ($36 online or $30 paper)
• Submit record of immunizations and Tuberculosis (TB) screening form to the Student Health Service (see p. 7 of this bulletin for more information)

Post-Baccalaureates
Students who have completed their bachelor’s degrees should apply for admission as non-degree graduate students by following the steps below:
• Complete the Application for Graduate Admission (available online via the Graduate School Web page at www.montana.edu/gradschool)
• Submit completed form to the Graduate School along with: 1) $60.00 fee and 2) official transcript from your degree-granting institution showing a posted bachelor’s degree
• Submit record of immunizations and Tuberculosis (TB) screening form to the Student Health Service (see p. 7 of this bulletin for more information)

Please note: Students interested in completing the Pre-Medical Certificate Program must first be accepted into that program through the MSU Division of Health Sciences. For more information go to www.montana.edu/dhs/hpa/postbaccadvising.html.

Continuing & Former Students
Continuing students are those who attended MSU Spring Semester 2014. Former students are those who previously attended MSU but were not enrolled Spring Semester 2014.

Undergraduates
Continuing MSU undergraduate students are automatically admitted to Summer Session. Former MSU undergraduate students must file an Intent to Register form with the Registrar’s office. Former students should use the online Intent to Register through MyInfo.

Post-Baccalaureates
Students who have completed the requirements for their bachelor’s degree should apply for admission to the Graduate School as non-degree graduate students (see instructions above under “New Students—Post-Baccalaureates”).
COURSE REGISTRATION

New Students
Undergraduates
Contact the Academic Advising Center at (406) 994-3532 to discuss advising and registration for summer courses. See p. 4 for further details.

Post-Baccalaureates (Graduates)
Graduate students may register on the Web. Instructions will be included with your admission acceptance letter from the Graduate School.

Continuing & Former Students
Continuing students may register beginning March 24 on the Web via MyInfo. Former students must file an Intent to Register form with the Registrar’s Office. Former students should use the online Intent to Register through MyInfo and register for classes online. Registration information will be sent via the email address provided on the Intent to Register form.

Students may check their registration status on the Web by going to the MSU home page (www.montana.edu) and following these links: MyInfo; Enter Secure Area; Login (follow instructions on that page); Student Services; Registration; Student Detail Schedule.

TUITION & FEES
A schedule of Tuition & Fees is available on p. 13.

The following additional laboratory fees will be charged for the Summer Science Courses (subject to change with Board of Regents approval):

<table>
<thead>
<tr>
<th>Course</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHMY 141</td>
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</tr>
<tr>
<td>CHMY 143</td>
<td>$20.65</td>
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<tr>
<td>CHMY 321</td>
<td>$35.10</td>
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<tr>
<td>CHMY 323</td>
<td>$35.10</td>
</tr>
<tr>
<td>PHSX 205</td>
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<td>PHSX 207</td>
<td>$20.40</td>
</tr>
<tr>
<td>BIOH 201</td>
<td>$30.80</td>
</tr>
</tbody>
</table>

Payment of Fees
Students may obtain a summary of their fees on the Web (My Info) via the following links: 1) Enter Secure Area; 2) Student Services; 3) Student Records; 4) Electronic Billing and Payment. Fees may be paid online, by mail, or in person at Montana Hall (see Fee Payment instructions, p.14).

CREDIT TRANSFER
Students who wish to transfer their science and mathematics credits from MSU to another institution may do so by requesting a transcript from the Registrar’s Office. For more information visit the Registrar’s Transcript Office page at www.montana.edu/registrar/transcript/index.html.

HOUSING & MEALS
Please refer to the Summer Housing and Meals section starting on p. 17.
Special Summer Courses

A selection of unique academic credit courses offered at MSU this summer

A wide variety of special courses is available at MSU during Summer Session 2014, and we’ve highlighted a few of them here. Many of these courses are offered only during the summer and take advantage of southwestern Montana’s natural environment; others provide professional development opportunities for teachers and coaches; still others offer unique experiences in archaeology. There’s a little something for everyone—including selections in art, music, languages, theatre, geology, ecology, and gardening.

Course registration will take place through the MSU Registrar; through Extended University; or through the School of Art. The method of registration is noted with each course description. To enroll in courses through the Registrar or the School of Art, students must be admitted to MSU; Extended University courses do not carry this requirement.

Please note: This is not a complete listing of Summer Session courses. For all Registrar courses, days of offering, times and locations, refer to the Summer Session Schedule of Classes via the Web (see access instructions on p. 26); information regarding registration is on p. 4-5 of this bulletin. For a listing of Extended University offerings and information on how to register, see the Extended University section starting on p. 59 or visit the Extended University website at http://eu.montana.edu/ContinuingEd.

ACCOUNTING

ACTG 524-01
International Accounting
(Enroll through Registrar)
May 12-30, 3 credits
Prerequisites: ACTG 328 and admission to MPac Program
Instructor: Marc Giullian
This course introduces students to international accounting with special emphasis on four major topics: 1) accounting systems as expressions of cultural, political, and ideological forces, 2) comparative international accounting patterns, 3) efforts to harmonize international accounting standards worldwide, and 4) accounting issues faced by multinational corporations.

ANIMAL AND RANGE SCIENCES

ARNR 529-801
Yellowstone Wildlife Habitat Ecology
(cross-listed with WILD 429)
(Enroll through Extended University)
June 9-14, 2 credits
Prerequisites: WILD 426, 428, or equivalent
Instructor: Carl Wambolt
This course considers the native communities of the Northern Yellowstone Winter Range as wildlife habitat, explores ecosystem interrelationships, and interprets the consequences of past management. Topics include plant taxonomy and geography; ecology of plants and wildlife; ungulate foraging relationships; habitat types and their successional trends and value to wildlife; fire ecology; and Park policy evolution. Two one-day field trips (returning to Bozeman each evening) provide field experiences on all of the above topics.

ART – ART HISTORY

ARTH 310-01
Art and Architecture of Ancient Mesoamerica
(Enroll through School of Art, 994-4501)
May 25-June 1, 3 credits
Instructor: Regina Gee
This course is a comparative survey that will examine the art and architecture of selected cultures of Mesoamerica, Central America, and South America, commonly grouped under the designation of New World Civilizations. The material presented will focus on the Aztecs and Maya of Mesoamerica (southern Mexico and northern Central America) and the Incas of Central Andes of South America.

New! ARTH 491-01
Art Now
(Enroll through School of Art, 994-4501)
May 12-June 20, 3 credits
Prerequisites: ARTH 200 and ARTH 201
Instructor: Melissa Ragain
Art Now (aka “Art Since You Were Born”) is designed as a seminar course surveying the most recent trends in contemporary art, focusing in particular on developments that have occurred within the art world of the last 20 years. We will discuss not only the artists that populate the art world, but also the institutions and theories that structure it. The function of the curator will be a central area of focus, and particular attention will be given to women, minority, and international artists.

ART – VISUAL ARTS

New! ARTZ 491-01
New York Field Study
(Enroll through School of Art, 994-4501)
May 25-June 1, 3 credits
Prerequisites: The course is primarily for intermediate to advanced students who have a working knowledge of the fine arts and a minimum of 200-level art production experience. Students not meeting these prerequisites may seek instructor consent at smast@montana.edu
Instructor: Sara Mast

Try an activity course this summer and earn academic credit for it! All courses will run 12 weeks, from May 12-Aug. 1, and are worth 1 credit each.

Enroll through the Registrar for all courses.
ACT 110-01 – Beginning Weight Training
New! ACT 115-01 – Soccer
ACT 150-01 – Beginning Yoga
New! ACT 163-01 – Race Training 5/10 K
ACT 169-01 – Beginning Tennis

For more information, contact Abbey Keene, Recreational Sports and Fitness, 994-6278 or abbey.keene@montana.edu.
New York is arguably the epicenter of the international art world, with its rich history, great art museums, teeming gallery life, and thousands of artists. This field study will focus on an intense, week-long immersion into the vast contemporary and historic visual arts culture of one of the world’s great cities, and will provide students with an experience of the many aspects of New York that define global art, such as the Museum of Modern Art, the Metropolitan Museum, the Guggenheim, the Whitney, and the New Museum, in addition to the extensive network of contemporary galleries in Chelsea, the lower east side, and elsewhere throughout New York.

**BIOLOGY – ECOLOGICAL**

**BIOE 416-01**

**Alpine Ecology**

(Enroll through Registrar)

June 23-Aug. 1 (required field trip July 18-20), 3 credits

Prerequisites: Junior standing, BIOB 170

Instructor: Carol Johnson

Explore the ecological characteristics of alpine areas. A three-day field trip will confirm and reinforce material presented in class and is a course requirement.

**BIOE 420-01**

**Field Ornithology**

(Enroll through Registrar)

May 12-30 (required field trip May 17), 3 credits

Prerequisites: Junior standing, BIOB 100 or BIOB 170

Instructor: Robert Moore

Field identification, habitat affinities and life histories of birds of the northern Rockies. Includes early morning field trips. The class will go outside in all kinds of weather, so students should be prepared with warm/dry outdoor clothing and footwear. Pair of binoculars required.

**BIOE 421-01**

**Yellowstone Wildlife Ecology**

(Enroll through Registrar)

May 12-June 20 (required field trip, date TBA), 3 credits

Prerequisites: Junior standing, and either BIOB 100 or BIOB 170

Instructor: Harold Picton

Basic ecology of the major animal species of the Yellowstone area, covering life, fire, ice, and land. The course will examine the ecological controversies surrounding Yellowstone wildlife management, and explore the role of the area as a “game changer” in affecting many things.

**COACHING**

**COA 205-01**

**Introduction to Coaching**

(Enroll through Registrar)

May 12-Aug. 1, 3 credits

Instructor: Craig Stewart

Delivery mode: Online only

This introductory coaching course will cover basic information from the beginning level in the American Coach Effectiveness Program.

**COA 395-01**

**Practicum: Coaching Application**

(Enroll through Registrar)

May 12-Aug. 1, 1 credit

Prerequisite: COA 205

Instructor: Craig Stewart

This course will involve assignment of prospective coaches to specific sports. Also included will be discussion and feedback on planning and implementation in practical settings.

**COA 405-01**

**Advanced Concepts in Coaching**

(Enroll through Registrar)

May 12-Aug. 1, 3 credits

Prerequisites: COA 205; and COA 395 or coaching experience

Instructor: Craig Stewart

Delivery mode: Online only

The primary goal of this course is to implement the content of an advanced coach certification curriculum in cooperation with the Montana High School Association (MHSA). The class is intended for experienced coaches who wish to examine current issues in coaching such as the female athlete, sportsmanship, or coach/parent relationships in detail.

**COMPUTER SCIENCE**

**CS 145RA-01**

**Web Design**

(cross-listed with MART 145RA)

(Enroll through Registrar)

June 23-Aug. 1, 3 credits

Instructor: Hunter Lloyd

Delivery mode: Online

Students will learn how to construct web pages that are well-designed and technically correct. On the design side, students learn about relevant design principles that apply to the design of web pages. On the technical side, students learn to implement their designs using HTML, Hypertext Markup Language, and CSS (Cascading Style Sheets). By the end of the course, students will have designed and built a small website.

*Note: The lecture material for the summer offering is online. The laboratory may be done either in a supervised setting (Tuesdays and Thursdays, 12:30-2:50 p.m. in EPS 254) or online.*

**EDUCATION**

**EDCI 588-801**

**Project Archaeology: Educator Field School**

(Enroll through Extended University)

Aug. 4-8, 2 credits

Instructor: Crystal Alegria

Location: Virginia City, MT

Join Project Archaeology in historic Virginia City and learn how to bring archaeology and history into your classroom! You will receive the research-based curriculum guide *Project Archaeology: Investigating Shelter* which addresses the goals of the Montana Common Core. This guide will help you take learning to a deeper level by incorporating English language arts, social studies and science. The guide is inquiry-based, cross-curricular, includes performance-based assessments, incorporates the indigenous voice, and promotes cultural understanding. In the classroom, your students will learn to analyze artifacts, primary documents, and oral histories related to authentic archaeological sites using the basics of scientific inquiry (observation, inference, evidence and classification), providing them with college and career readiness skills. While in Virginia City, you will be
immersed in the history of this significant gold rush town, learning from local historians, archaeologists, and members of the Shoshone-Bannock Tribe. Join us as we travel back in time to learn about Montana’s historic past!

**EDCI 591**
**Project Archaeology: Investigating a Plains Tipi**
(Enroll through Extended University)
June 16-19, 2 credits
Instructor: Crystal Alegria
Location: Museum of the Rockies, Bozeman
Join Project Archaeology at the Museum of the Rockies and learn how to bring archaeology and history into your classroom! You will receive the research-based curriculum guide *Project Archaeology: Investigating Shelter* which addresses the goals of the Montana Common Core. This guide will help you take learning to a deeper level by incorporating English language arts, social studies and science. The guide is inquiry-based, cross-curricular, includes performance-based assessments, incorporates the indigenous voice, and promotes cultural understanding. In the classroom, your students will learn to analyze artifacts, primary documents, and oral histories related to authentic archaeological sites using the basics of scientific inquiry (observation, inference, evidence and classification), providing them with college and career readiness skills. Join us as we travel back in time to learn about Montana’s historic past!

**EDCI 591**
**Project Archaeology: Investigating a Plains Tipi**
(Enroll through Extended University)
June 21-24, 2 credits
Instructor: Crystal Alegria
Location: Museum of the Rockies, Bozeman
Join Project Archaeology at the Museum of the Rockies and learn how to bring archaeology and history into your classroom! You will receive the research-based curriculum guide *Project Archaeology: Investigating Shelter* which addresses the goals of the Montana Common Core. This guide will help you take learning to a deeper level by incorporating English language arts, social studies and science. The guide is inquiry-based, cross-curricular, includes performance-based assessments, incorporates the indigenous voice, and promotes cultural understanding. In the classroom, your students will learn to analyze artifacts, primary documents, and oral histories related to authentic archaeological sites using the basics of scientific inquiry (observation, inference, evidence and classification), providing them with college and career readiness skills. Join us as we travel back in time to learn about Montana’s historic past!

**FILM**
**New! FILM 381-01**
**Studies in Film: The Musical**
(Enroll through Registrar)
June 23-Aug. 1, 3 credits
Prerequisite: Any 200-level film studies course or permission of instructor
Instructor: Andrew Nelson
This course will examine the history, themes and aesthetics of the Hollywood movie musical as it developed from the late 1920s to the 1970s. Topics will include ways of understanding the genre’s combination of music, dance and story; the musical’s social significance in the context of the Great Depression, World War II and post-War America; and legendary performers, including Gene Kelly, Fred Astaire and Judy Garland. For more information please contact Dr. Andrew Nelson, apnelson@montana.edu.

**GENERAL ENGINEERING COURSES**

Take them on campus or online!

Each of the following General Engineering courses will be offered this summer with both an on-campus section and an online* section. Enroll through the Registrar for all sections.

**EGEN 201 – Engineering Mechanics: Statics**
Section 01 – On campus; Section 02 – Online
May 12-June 20, 3 credits
Prerequisite: PHSX 220 or 240; corequisite: M 273 or 283
Instructor: Anders Larsson
Equilibrium of particles and rigid bodies; static analysis of structures including trusses, beams, frames and machines; coulomb friction; area and mass centroids, moments and products of inertia.

**EGEN 202 – Engineering Mechanics: Dynamics**
Section 01 – On campus; Section 02 – Online
May 12-June 20, 3 credits
Prerequisite: EGEN 201 or 221
Instructor: TBA
Kinematics, kinetics, work-energy, and impulse-momentum for particles and rigid bodies.

**EGEN 205 – Mechanics of Materials**
Section 01 – On campus; Section 02 – Online
June 23-Aug. 1, 3 credits
Prerequisite: EGEN 201 or 221
Instructor: TBA
Stress and strain, Hooke’s Law, thermal strain, torsion, bending of beams, combined stress, limit analysis, energy methods, virtual work, column theory.

**EGEN 335 – Fluid Mechanics**
Section 01 – On campus; Section 02 – Online
June 23-Aug. 1, 3 credits
Prerequisites: EGEN 202 and 205
Instructor: Joel Cahoon
An introduction to modern fluid mechanics.

*For information about online courses and how they work, please see p. 35.*
New! FILM 481-01
Advanced Studies in Film: Quentin Tarantino and the Cinema of Cool
(Enroll through Registrar)
May 12-June 20, 3 credits
Prerequisite: Any 300-level film studies course or permission of instructor
Instructor: Lucia Ricciardelli
In the 1980s to 1990s, cinema lovers used to have a favorite video store employee to interact with during rentals, a “film geek” usually overqualified to be there: Quentin Tarantino was exactly that type of video store employee. Before becoming an extremely successful filmmaker, Tarantino worked at the Manhattan Beach’s Video Archives in Los Angeles for five years, devouring countless movies and discussing them endlessly with his customers. In 1992, Tarantino’s first film, Reservoir Dogs, screened at the Sundance Film Festival and was an immediate hit; the rest is history. Fascinated with pop culture icons and images of “coolness,” Tarantino is attributed with developing one of the most exciting and original styles of contemporary filmmaking. This course focuses on how his filmmaking work has helped define the art of cinema in the broadest sense. Historical avant-garde humor, social critique, and storytelling in the broadest sense. Historical avant-garde conceptual artist as a means for formal inquiry, personal expression, absurdist humor, social critique, and storytelling in the broadest sense. Historical avant-garde film and contemporary moving image art will be presented within a critical dialogue, combining academic seminar and art studio class.

New! FILM 494-02
Seminar: After Effects Bootcamp
(Enroll through Registrar)
May 19-30, 3 credits
Prerequisite: Basic knowledge of digital photography and/or video, and basic computer skills
Instructor: Theo Lipfert
Adobe After Effects is a software application used for creating motion graphics, animation, and for manipulating video. In this intensive class, students will learn the basics of this powerful tool through hands-on exercises and projects. The class will conclude with a creative final project in which students will demonstrate their newly honed skills.

New! FILM 494-03
Seminar: Experimental Cinema
(Enroll through Registrar)
May 12-June 20, 3 credits
Prerequisite: Film 212 or equivalent
Instructor: Anjali Sundaram
Rather than adopt the representations of mass media, we will approach film and video in the spirit of the painter, poet, or conceptual artist as a means for formal inquiry, personal expression, absurdist humor, social critique, and storytelling in the broadest sense. Historical avant-garde film and contemporary moving image art will be presented within a critical dialogue, combining academic seminar and an art studio class.

FISH AND WILDLIFE SCIENCE AND MANAGEMENT
WILD 429-801
Yellowstone Wildlife Habitat Ecology
(cross-listed with ARNR 529)
(Enroll through Extended University)
June 9-14, 2 credits
Prerequisites: WILD 426, 428, or equivalent
Instructor: Carl Wambolt
This course considers the native communities of the Northern Yellowstone Winter Range as wildlife habitat, explores ecosystem interrelationships, and interprets the consequences of past management. Topics include plant taxonomy and geography; ecology of plants and wildlife; ungulate foraging relationships; habitat types and their successional trends and value to wildlife; fire ecology; and Park policy evolution. Two one-day field trips (returning to Bozeman each evening) provide field experiences on all of the above topics.

GEOLOGY
GEO 419-01
Field Paleontology
(Enroll through Registrar)
Dates TBA, 2 credits
Prerequisites: GEO 419 provides students selecting the paleontology option in the Dept. of Earth Sciences at MSU, and upper-division geology majors from other institutions, training and experience in field techniques used in vertebrate paleontology. The course prerequisites include the following classes in geology: GEO 307 Sedimentary Petrology, and GEO 211 Historical Geology, or consent of instructor.
Instructor: David Varricchio
This course covers a variety of topics including field mapping, facies analysis, invertebrate and vertebrate fossils identification, microsite screening, taphonomy, and excavation techniques. In past years, the course has been taught in the extensive outcrops of the Hell Creek Formation of eastern Montana and the Jurassic and Cretaceous formations of Utah and Nevada. Extensive hiking and outdoor physical challenges require that students be physically fit. A fee for transportation, camping fees, meals, and materials is required. For more information, visit the course’s website at http://www.montana.edu/wwwes/programs/paleocamp.htm.

GEO 429-01
Field Geology
(Enroll through Registrar)
May 12-June 20, 6 credits
Prerequisites: ERTH 307, GEO 211, GEO 309, GEO 315, GEO 448 (must receive a minimum grade of “C” in these areas)
Instructor: Colin Shaw
A senior capstone course for the geology, geohydrology and paleontology options. Early summer field course with application of field procedures and mapping techniques to a variety of field problems and exercises. Extensive hiking and outdoor physical challenges require that students be physically fit. A fee
for supplies, transportation, and other logistical expenses is required. For more information, visit the course’s website at http://www.montana.edu/wwwes/programs/geologycamp.htm.

GERMAN

GRMN 101-01
Elementary German I
(Enroll through Registrar)
May 12-June 20, 4 credits
Instructor: Patricia Simpson
This elementary level course is designed to help students acquire basic proficiency in communication within culturally significant contexts. An integrated approach will be taken to teaching language skills with emphasis on vocabulary acquisition and basic grammatical structures.

GRMN 102D-01
Elementary German II
(Enroll through Registrar)
June 23-Aug. 1, 4 credits
Prerequisite: GRMN 101 or equivalent, or two years of high school German
Instructor: Susanne Pannwitz
This course builds upon the foundation established in GRMN 101. Greater emphasis is placed upon oral and written expression. Reading and discussions are designed to increase comprehension of more linguistically complex texts and more conceptually complex cultural issues.

GRAPHIC DESIGN

GDSN 360-01
Yellowstone Digital
(Enroll through School of Art, 994-4501)
June 6-14, 3 credits
Prerequisite: One of the following: GDSN 224, ARTZ 211, MTA 260, or ARCH 261
Instructor: TBA
A field workshop located along the Yellowstone River using either 35mm or a digital camera to create fine art digital prints. This course is designed for individuals with a working knowledge of photographic basics and a fundamental familiarity with their own equipment who desire to explore the new media of the fine art digital print.

GDSN 361-01
Teton Digital
(Enroll through School of Art, 994-4501)
Dates TBA, 3 credits
Prerequisite: One of the following: GDSN 224, ARTZ 211, MTA 260, or ARCH 261
Instructor: TBA
An intensive field workshop located in the Jackson, Wyoming area and Grand Teton National Park using a digital camera to create fine art digital prints. This course is designed for individuals with a working knowledge of photographic basics and a fundamental familiarity with their own equipment who desire to explore the new media of the digital print.

GSDN 378-01
Guerrilla Advertising
(Enroll through School of Art, 994-4501)
Dates TBA, 5 credits
Prerequisite: GDSN 224 or consent of instructor; photography and marketing majors highly encouraged
Instructor: Meta Newhouse
Students will stretch the boundaries of traditional advertising solutions in this course by placing their work in unusual contexts for maximum impact. The workshop-like atmosphere involves quick-fire problem solving sessions, working outdoors, guest critiques and socially-driven solutions. Graphic design, film and photography, and marketing majors are particularly encouraged to apply.

LSCI 121-01
Electronic Library Research Skills
(Enroll through School of Art, 994-4501)
May 12-June 20, 2 credits
Instructor: James Thull
Delivery mode: Online only
Library Research Skills is a course focusing on both the concepts and skills needed to conduct library research with an emphasis on electronic information sources. The purpose of the course is to provide individuals with a basic understanding of the library research process and the skills by which they can successfully find information for research, presentations, and other class assignments.

MEDIA ARTS

MART 145RA-01
Web Design
(cross-listed with CS 145RA)
(Enroll through Registrar)
June 23-Aug. 1, 3 credits
Instructor: Hunter Lloyd
Delivery mode: Online
Students will learn how to construct web pages that are well-designed and technically correct. On the design side, students learn about relevant design principles that apply to the design of web pages. On the technical side, students learn to implement their designs using HTML, Hypertext Markup Language, and CSS (Cascading Style Sheets). By the end of the course, students will have designed and built a small website.

Note: The lecture material for the summer offering is online. The laboratory may be done either in a supervised setting (Tuesdays and Thursdays, 12:30-2:50 p.m. in EPS 254) or online.

MUSIC – EDUCATION

MUSE 591-850
Effective Teaching Strategies for Instrumental Music Education
(Enroll through Extended University)
June 16-19, 2 credits
Instructor: Sherry Linnerooth
Location: Camp Paxson, Seeley Lake, MT
This intensive session is an outstanding professional development opportunity for instrumental music teachers. It will allow total student/teacher immersion with experts and colleagues in the areas of music teaching and performance. Topics will include beginning and rebuilding a band program, standard and new repertoire for all band levels, a focus on woodwinds including double reeds, a special session on trumpet pedagogy, beginning drum set, teaching chamber music, and a session on Smart Music. Multiple sessions will be given to work on band rehearsal warm-ups, technique, and conducting, and class participants will have the opportunity to read new and standard concert band literature.
MUSIC – GENERAL

MUSI 348-02
Bozeman Community Concert Band
(Enroll through Registrar)
June-August (contact School of Music for specific dates, 994-3562), 1 credit
Instructor: Nathan Stark

Beginning mid-June and continuing through early August, the Bozeman Community Concert Band presents concerts every Tuesday evening in the Bogert Park Band Shell, South Church Avenue. Programs use traditional concert band literature including overtures, medleys, Broadway show tunes, and marches. The membership of the band consists of students and adults from throughout the Gallatin Valley as well as MSU students and other guest performers.

NATIVE AMERICAN STUDIES

NASX 340-01
Native American Literature
(Enroll through Registrar)
May 12-June 20, 3 credits
Prerequisites: Junior standing and WRIT 101W
Instructor: Matt Herman

Traditional and contemporary Native American literature including oral narratives, folktales, poetry, short stories, essays, and the novel. Methods of literary analysis will be explored to assist students in determining the meaning and function of the various genres.

PHILOSOPHY

PHL 327-01
New! Aesthetics and the Arts
(Enroll through the Registrar)
June 23-Aug. 1, 3 credits
Prerequisites: Previous course in Philosophy or consent of instructor
Instructor: Daniel Flory

This course involves the philosophical examination of the nature and function of the arts and the aesthetic experience.

PHOTOGRAPHY

PHOT 494-01
Seminar: Small Town Documentary
(Enroll through the Registrar)
May 12-June 20, 3 credits
Prerequisites: PHOT 113, PHOT 154, or comparable photography course
Instructor: Jonathan Long

The goal of this course is to engage in a visual examination of a specific town, to be chosen and documented by each individual student extensively. The course offers a rich blend of geography, sociology, history, contemporary issues, education, art and individual curiosity.

PHOT 494-02
Seminar: Landscape Photography
(Enroll through the Registrar)
May 13-June 12 (5 weeks), 4 credits
Prerequisites: A still photography course open to upper division Photography students and Film students in the MFA program. This advanced level seminar assumes you have a grasp on basic photographic skills and are ready to create and discuss your images, and the work of others, from a critical standpoint.
Instructor: Kyle Bajakian

This class will concentrate on gaining a historical perspective of the practices, movements and trends with the genre of landscape photography. We will be primarily concerned with the history of landscape photography in the United States since the time of the Civil War. With a sense of historical and contemporary trends in envisioning the landscape, students will make their own interpretations of the landscapes they encounter. Weekly field trips, assignments, readings and a final project will comprise the work for the course.

PSYCHOLOGY

PSYX 263CS-01
The Psychology of Film
(Enroll through Registrar)
May 12-June 20, 3 credits
Prerequisites: College Writing (W) and University Seminar (US) core
Instructor: Ian Handley

This course uses psychological science to understand the persuasive power of media as portrayed in popular films. It evaluates the media’s ability to both reflect and affect behavior. The focus is on contemporary themes such as aggression, drug use, sexuality, and prejudice.

PSYX 340-01
Abnormal Psychology
(Enroll through Registrar)
May 12-June 20, 3 credits
Prerequisite: PSYX 100
Instructor: TBA

Historical and current perspectives on psychopathology, including neuroscience, behavioral cognitive, psychodynamic, and humanistic/existential approaches. Traditional approaches and recent innovations in therapy and diagnosis are considered along with current diagnostic categories, especially DSM.
PSYX 462-01  
Psychology of Prejudice  
(Enroll through Registrar)  
May 12-June 20, 3 credits  
Prerequisite: PSYX 100 or consent of instructor  
Instructor: Keith Hutchison

This course reviews theory and research on prejudice. Topics include stereotyping and discrimination, cognitive and affective dynamics of prejudice, causes of prejudice, eliminating prejudice, affirmative action and diversity programs, and psychological effects of prejudice.

SOCIETY

SOCI 332-01  
Sociology of Family  
(Enroll through the Registrar)  
May 12-June 20, 3 credits  
Prerequisites: SOCI 101IS or equivalent; Quantitative core; or consent of instructor  
Instructor: Danielle Hidalgo

This course will examine the family as a structural and functional unit in social life and organization, and as a unit of social control; its status, change, and associated problems.

SPANISH

SPNS 101-01  
Elementary Spanish I  
(Contact Modern Languages, 994-4448)  
May 12-June 20, 4 credits  
Prerequisite: Consent of instructor  
Instructor: TBA

An elementary level course designed to help students acquire basic proficiency in communication within culturally significant contexts. An integrated approach to teaching language skills with emphasis on vocabulary acquisition and basic grammatical structures.

SPNS 102D-01  
Elementary Spanish II  
(Contact Modern Languages, 994-4448)  
June 23-Aug 1, 4 credits  
Prerequisite: SPNS 101 or equivalent, or two years of high school Spanish; consent of instructor  
Instructor: TBA

This course builds upon the foundation established in 101. Greater emphasis is placed upon oral and written expression. Reading and discussions are designed to increase comprehension of more linguistically complex texts and more conceptually complex cultural issues.

SPNS 335IHI-01  
Travel in Latin America Literature and Film  
(Enroll through Registrar)  
May 12-June 20, 3 credits  
Location: On campus  
Prerequisite: SPNS 220 or Junior standing  
Instructor: Patricia Catoira

This course examines travel in Latin America texts and films as exploration and search for individual and national identity. It also considers disruptive displacements caused by political and economic forces and the problems of adapting to a new environment. The course will be taught in English.

SUSTAINABLE FOOD AND BIOENERGY SYSTEMS

SFBS 296-01  
Practicum: Towne’s Harvest  

SFBS 445R-01  
Culinary Marketing: Farm to Table

SFBS 541-01  
Culinary Marketing: Farm to Table

Please see box on p. 55.

THEATRE

THTR 122IA-01  
Acting for Non-Majors  
(Enroll through Registrar)  
May 12-June 20, 3 credits  
Instructor: Stephanie Campbell

An introduction to the creative process engaged by a performer on a stage. Taught in a workshop format in which the individual student engages in exercises designed to convey stories and emotions through the understanding of human behavior as expressed on a stage.

UNIVERSITY STUDIES

US 121US-01  
Education, Social Issues, and the Digital Age  
(Enroll through Registrar)  
June 23-Aug. 1, 3 credits  
Prerequisite: Consent of instructor (email seminar@montana.edu); successful completion of at least 12 credits including WRIT 101W or its equivalent  
Instructor: TBA  
Delivery mode: Online only

This multidisciplinary course, delivered in an online seminar format, draws from psychology, sociology, history, and philosophy and asks students to consider the role of education in their lives and the social responsibilities of educated, engaged individuals living in the digital age. The course emphasizes critical thinking, communication and support of ideas, and intellectual development. US 121US fulfills the university seminar requirement of the core curriculum.
**SUSTAINABLE FOOD AND BIOENERGY SYSTEMS COURSES**

**HORT 345-01**  
**Organic Market Gardening**  
(Enroll through Registrar)  
May 12-June 20, 3 credits  
Prerequisites: BIOB 110, ENSC 245, and Junior standing  
Instructor: David Baumbauer  
(baumbauer@montana.edu)

The course emphasizes high value crops (vegetables, flowers, and herbs) produced with organic techniques and directly marketed through farmers’ markets, Community Supported Agriculture (CSA), restaurants, and specialty markets. This hands-on course is held at the MSU Horticulture Farm located on the Bozeman Area Research and Teaching Farm, where students will design and install 2½ acres of gardens and cold frames. Topics include soil fertility, seeding techniques, crop rotation, National Organic Standards, tool selection and maintenance, and irrigation systems. Field trips to area farms expose students to the local market gardening scene. Student groups will deliver presentations on such topics as variety selection, crop marketing opportunities, pest management, and cover crops.

**SFBS 296-01/02**  
**Practicum: Towne’s Harvest**  
(Enroll through Registrar)  
May 12-Aug. 1, 3 credits  
Prerequisites: SFBS 146 or consent of instructor  
Instructor: TBA

This course provides an essential hands-on experience at Towne’s Harvest Garden. Students will practice all aspects of a community supported agriculture experience from production through distribution and marketing. Production activities include planting, transplanting, weeding, integrated pest management (IPM), irrigating, managing soil fertility, and harvesting. Distribution activities include sorting, washing, weighing and recording data, cold storing, and preparing produce for transport to various distribution sites such as the Gallatin Valley Food Bank. Marketing activities include displaying and selling produce at local farmers’ markets and on campus, recording sales and accounting data, displaying produce for community supported agriculture distribution, assisting members with produce identification and selection, and conducting outreach on and off the farm. Students will work side by side with the Towne’s Harvest production and operations managers to learn both the art and science of small scale sustainable production and distribution methods. Additional formal trainings will include safe food handling and market procedures. Students will attend one field trip to visit other farms in Montana.

**SFBS 445R-01**  
**Culinary Marketing: Farm to Table**  
(co-convened with SFBS 541)  
(Enroll through Registrar)  
June 23-Aug. 1, 3 credits  
Prerequisites: HDFN 226, HDFN 227, HDFN 322, HDFN 323, or equivalent; and graduate standing  
Instructor: Carmen Byker  
(carmen.byker@montana.edu)

This course emphasizes hands-on food experience, including market garden tending and harvesting, distribution by community supported agriculture, food marketing and retail at farmers’ markets, culinary practice with seasonal garden produce, food preservation and product development, teaching and culinary demonstrations, and marketing plan development.
Summer Master’s Degree Programs

MATHEMATICS EDUCATION

The Master of Science Degree in Mathematics under the Mathematics Education Option is designed for practicing high school mathematics teachers. The degree consists of 30 semester hours of course work.

Designed specifically to meet the needs of secondary mathematics teachers, the core courses and electives are drawn from common core content including mathematical modeling, statistics, algebra, geometry, analysis and discrete mathematics, as well as pedagogy courses focusing on technology, standards, curriculum and assessment. The program of study emphasizes inquiry-based learning and use of technology in the context of the Common Core State Standards for mathematics. Classroom research projects give teachers the opportunity to try new ideas for improving mathematics teaching and learning in their schools.

Courses are offered on the Bozeman campus each summer. Additionally, two Internet-based courses are offered each summer, fall, and spring.

All course credits may be applied toward teacher recertification.

Summer Session 2014, which begins June 9 and ends July 25 for Mathematics Education, will include the following courses:

On-Campus Courses

**June 9-July 25**

Enroll through the Office of the Registrar:

- **M 523—Number Structures for Teachers**
  3 credits

**June 9-July 25**

Enroll through Extended University, Office of Continuing Education:

- **M 518—Statistics for Teachers**
  3 credits

For more information on the Master of Science in Mathematics – Mathematics Education option consult the Web page [www.math.montana.edu/msmme](http://www.math.montana.edu/msmme)

or contact:

Jennifer Luebeck
Dept of Mathematical Sciences
Montana State University
Bozeman, MT 59717-2400

(406) 994-5341
luebeck@math.montana.edu

Distance Delivery Courses

**For more information on the Master of Science in Mathematics – Mathematics Education option consult the Web page [www.math.montana.edu/msmme](http://www.math.montana.edu/msmme)**

**On-Campus Courses**

Courses are restricted entry. For more information and registration details, contact dianap@montana.edu or (406) 994-5679.

**June 9-13**

- **CSCI 591—Computer Science in the Classroom: Introduction to Computational Thinking**
  2 credits

**June 16-20**

- **BIOL 520—Understanding and Managing Animal Biodiversity in the Greater Yellowstone Ecosystem**
  2 credits
- **PHSX 591—Teaching Mechanics**
  2 credits
- **PSPP 591—Flowering Plants of the Northern Rocky Mountains**
  2 credits

**June 18-20**

- **MB 538—Cell and Molecular Biology** (1st of 2 weeks)
  2 credits

SCIENCE EDUCATION (MSSE)

**Designed to be completed in two Summer Sessions with five or more semesters interim distance learning course work.**

The Master of Science in Science Education degree program is designed for practicing science educators. This intercollegiate-interdisciplinary degree is sponsored by the colleges of Agriculture; Education, Health and Human Development; Letters and Science; and The Graduate School at MSU. The degree program is coordinated by Intercollege Programs for Science Education.

Thirty semester credits of course work are required for the degree. The program of study includes distance courses that students take by computer-mediated conferencing from their homes or work places and summer campus courses. The program ends with an on-campus summer session in which the student presents the culminating capstone project.

All students complete core courses (12 credits) in education and develop interdisciplinary combinations of courses (18 credits) from offerings in biology, chemistry, earth sciences, microbiology, physics and other areas. About three-fourths of the courses are offered through a distance learning mode of instruction.

Each student is advised by a three-person faculty graduate committee, and graduate programs are designed taking into account the student’s background, interests and career goals.

Summer Session 2014 will include the following courses:

**On-Campus Courses**

Courses are restricted entry. For more information and registration details, contact dianap@montana.edu or (406) 994-5679.

**June 9-13**

- **CSCI 591—Computer Science in the Classroom: Introduction to Computational Thinking**
  2 credits

**June 16-20**

- **BIOL 520—Understanding and Managing Animal Biodiversity in the Greater Yellowstone Ecosystem**
  2 credits
- **PHSX 591—Teaching Mechanics**
  2 credits
- **PSPP 591—Flowering Plants of the Northern Rocky Mountains**
  2 credits

**June 18-20**

- **MB 538—Cell and Molecular Biology** (1st of 2 weeks)
  2 credits
June 23-27

ELE 591—Solar Cell Basics
2 credits

ERTH 516—Northern Rocky Mountain Geology
2 credits

LRES 547—Thermal Ecology in Yellowstone National Park
2 credits

MB 538—Cell and Molecular Biology
(2nd of 2 weeks)

June 28

ERTH 594—Field Geology: Bahama Montana
1 credit

June 29-July 5
(July 4 is a holiday—no classes)

EDCI 575—MSSE Capstone Project and Symposium in Science Education
3 credits (Summer 2014 graduate candidates only)

June 30-July 3

BIOL 591—Land Use Issues in the Greater Yellowstone Ecosystem
2 credits

CHMY 594—Science Lab Safety and Risk Management
1 credit

July 7-11

BIOE 523—Wildlife Ecology of the Greater Yellowstone Ecosystem
2 credits

LRES 569—Ecology of Invasive Plants
2 credits

PHSX 401—Physics by Inquiry I
(1st of 2 weeks)
3 credits

PSPP 591—Biomimicry: The Technology of Biology
2 credits

July 7-12

GEO 521—Dinosaur Paleontology
2 credits

July 14-18

BIOL 591—Ecology of Trout Streams
2 credits

GEO 560—Geology of Yellowstone Volcanic Center
2 credits

PHSX 401—Physics by Inquiry I
(2nd of 2 weeks)

July 21-25

BIOL 591—Alpine Ecology
2 credits

LRES 591—Lake Ecology
2 credits

PHSX 402—Physics by Inquiry II
(1st of 2 weeks)
3 credits

July 28-Aug. 1

ERTH 591—Geology of Glacier National Park
2 credits

PHSX 402—Physics by Inquiry II
(2nd of 2 weeks)

Distance Delivery Courses

Enroll through Extended University, Office of Continuing Education (see Extended University section, p. 59).

For more information and registration details, visit the MSSE website at www.montana.edu/msse or call (406) 994-5679.

June 16-Aug. 1

Note: Individual course lengths may vary. Exact dates will be included when the course descriptions are posted online.

BIOE 513—Terrestrial Ecology of Plains and Prairies
1 credit

For more information on the Master of Science in Science Education (MSSE) Program visit our website at www.montana.edu/msse

or contact:
Diana Paterson
MSSE Associate Director
401 Linfield Hall
P.O. Box 172805
Montana State University
Bozeman, MT 59717-2805
(406) 994-5679
dianap@montana.edu
Get a Head Start

OPPORTUNITIES FOR RECENT HIGH SCHOOL GRADUATES
Summer Session 2014 is a great way to introduce yourself to MSU and ease your transition from high school into college life. As an incoming freshman, you can get a jump start on your college career during the summer by completing one or more of your core course requirements.

Summer Session students enjoy smaller class sizes, a relaxed atmosphere on campus, organized outdoor group recreation, and academic advisers available to assist in making choices that will lead to a successful college experience. Come join the fun at Summer Session 2014!

For More Information
Admission to MSU
See p. 6 of this bulletin

Core courses offered during Summer 2014
See p. 43-44 of this bulletin

Academic Advising Center
130 Gaines Hall
8:30 a.m.-4:30 p.m., M, T, Th, F
9:30 a.m.-4:30 p.m., W
(406) 994-3532
universitystudies@montana.edu

Walk-in advising for assistance with such things as drop/add, tutoring referrals, completion of change of curriculum forms, or other quick questions is available during our open hours. Special advising appointments to discuss matters such as choosing a major or minor, mapping out academic plans, or dealing with suspension or probation can be made by telephoning, e-mailing, or stopping by the office.

University Studies advising services are available to all students on campus. We also welcome inquiries from faculty and staff.

General questions about Summer Session
Contact the Office of Summer Session.

EARLY ADMISSION FOR CURRENT HIGH SCHOOL STUDENTS
Summer Session 2014 provides an opportunity for current high school students to experience the college atmosphere and the level of course work that is expected of a student at MSU. Whether you’re trying to get a head start on your core courses or are just taking a class for fun, MSU offers a variety of summer courses that are sure to interest and challenge you.

Early Admission (congruent high school/university attendance) allows a high-ability student who has not yet completed high school to take courses for university credit. If you have completed your sophomore year in high school, have a grade point average of at least 3.25, and have completed the majority of the college preparatory course work, you are welcome to apply.

Early Admission Guidelines

Academic Eligibility
To be eligible for Early Admission, the applicant must:
1. Demonstrate ability to do university-level work in at least one academic area
2. Demonstrate a strong likelihood of success at university-level work in that area
3. Meet the course requirements for Early Admission set by the departments offering the courses to be attended
4. Normally such students will have completed the sophomore year in high school and will have a grade-point average of at least 3.25, documented on an official high school transcript

Application Procedure
Receipt of the following credentials in the Office of Admissions constitutes a complete application for admission. Requests to have final credentials sent to MSU must be initiated by the applicant. Requests should be made by contacting the high school, the registrar’s office at the college/university, or the testing agency.

1. Admissions Application: An application may be submitted online or printed out at www.montana.edu/wwwcat/appopts.html. The application may also be obtained from a high school counselor or from the Office of Admissions.
2. Application Fee (nonrefundable): $36 online application or $30 paper application fee. Checks should be made payable to Montana State University. The application fee will not be waived, deferred, or refunded. This fee must be paid before the application for admission will be processed.
3. High School transcript: An official transcript must be sent directly from the high school to the Office of Admissions. The transcript must post all courses completed and a minimum grade point average (GPA) of 3.25 and/or test scores listed below.
4. ACT/SAT scores: An ACT score of 27 or an SAT score of an 1820. Official ACT/SAT scores should be sent directly to the Office of Admissions from the ACT/SAT testing agency.
5. Coursework: Must have completed the majority of the College Preparatory coursework outlined under Freshmen Admission Requirements (go to www.montana.edu/admissions/apply.shtml/#freshman for guidelines).
6. Letter of Recommendation: A letter must be submitted from the high school principal and/or guidance counselor recommending the student for Early Admission.
7. University Professor Recommendation: A letter from a faculty member in the university department in which the course is to be taken must state that the student is apparently prepared to take the course in question and is granted permission to do so.
8. Interview: The MSU Early Admissions Committee must recommend acceptance in the Early Admission program. Applicants and their parents may be interviewed by the committee. Contact the Assistant Director of Admissions to schedule an interview (phone (406) 994-2452 or email broeder@montana.edu).

For More Information
Core courses offered during Summer 2014
See p. 43-44 of this bulletin

General questions about Summer Session
Contact the Office of Summer Session.
Extended University Courses

INTRODUCTION

Summer Offerings
Extended University, Office of Continuing Education offers both credit and non-credit programs on campus, throughout the state and via distance learning. Courses will be held on the Bozeman campus unless otherwise indicated. Visit our Web site at http://eu.montana.edu/courses to obtain updated information regarding additional offerings.

Registration
Registration methods vary from course to course. Register for select courses online or via phone. Check course descriptions at http://eu.montana.edu/ContinuingEd for more information.

Extended University courses are open to both MSU and non-MSU students.

Course Fees and Policies
Course fees vary; check the Web site regarding fees for specific courses.

If the minimum enrollment for a course is not met and it is cancelled, fees paid will be refunded in full. If a course is offered as planned, administrative fees will be charged to students who choose to drop the course. For complete information concerning refunds, audits, drops or other administrative policies for credit courses, visit http://eu.montana.edu/credit/policy.htm. For information regarding non-credit course policies, see http://eu.montana.edu/noncredit/policy.htm.

Students may be able to count certain courses toward financial aid enrollment; for more information contact your program adviser or Financial Aid Services. Extended University courses may qualify for staff, veteran or other University fee waivers.

For More Information
Visit our Web site at: http://eu.montana.edu
or contact:
Extended University
Office of Continuing Education
200 Culbertson Hall
P.O. Box 172200
Montana State University
Bozeman, MT 59717-2200
(406) 994-6683
ContinuingEd@montana.edu
http://eu.montana.edu/ContinuingEd

Note: This is a sampling of courses available at press time. Please see http://eu.montana.edu/courses for all Extended University course descriptions.

ANIMAL AND RANGE SCIENCES

WILD 429/ARNR 529
Yellowstone Range Ecology
(Co-convening course)
June 9-14, 2 credits
Location: Bozeman
Instructor: Carl Wambolt

This course considers the native communities of the Northern Yellowstone Winter Range as wildlife habitat, explores ecosystem interrelationships, and interprets the consequences of past management. Topics include plant taxonomy and geography; ecology of plants and wildlife; ungulate foraging relationships; habitat types and their successional trends and value to wildlife; fire ecology; and Park policy evolution. Two one-day field trips (returning to Bozeman each evening) provide field experiences on all of the above topics.

AGRICULTURAL EDUCATION

AGED 588
Professional Development for MT Agricultural Educators
June 9-12, 2 credits
Location: Great Falls
Instructor: Carl Igo

This course will focus on updated content and delivery methods for teaching secondary agricultural education in Montana. Participants are expected to attend all curriculum-related sessions of the MAAE Summer Update, and then prepare a unit plan related to one or more of the topics presented. The unit plan must fit seamlessly into the Montana Agricultural Education curriculum and also address the updated curriculum standards for Agricultural Education provided through the Montana Office of Public Instruction. Unit plan must be submitted by July 30, 2014.

ECONOMICS

ECNS 594
Classroom Application of Economic Learning Modules
June (dates TBA), 1 credit
Location: Bozeman
Instructor: Myles Watts

Teachers will have the opportunity to hear several experts discuss the economic impact of a variety of current issues, including public debt, biofuels, recycling, health care, and economics of education. The presentation and discussion of these topics will facilitate development and use of appropriate classroom materials. Offered for one credit or 22 hours towards recertification.
EDUCATION

EDCI 588
Montana Behavior Initiative (MBI) Summer Institute 2014
June 16-20, 2 optional credits
Location: Bozeman
Extended University, Office of Continuing Education will offer optional graduate credit at this annual institute. For more information on the institute visit the MBI Summer Institute website: www.montana.edu/cs/mbi

EDCI 588
Project Archaeology Educator Field School
Aug. 4-8, 2 credits
Location: Virginia City
Instructor: Crystal Alegria
Join Project Archaeology in historic Virginia City and learn how to bring archaeology and history into your classroom! You will receive the research-based curriculum guide *Project Archaeology: Investigating Shelter* which addresses the goals of the Montana Common Core. This guide will help you take learning to a deeper level by incorporating English language arts, social studies and science. The guide is inquiry-based, cross-curricular, includes performance-based assessments, incorporates the indigenous voice, and promotes cultural understanding. In the classroom, your students will learn to analyze artifacts, primary documents, and oral histories related to authentic archaeological sites using the basics of scientific inquiry (observation, inference, evidence and classification), providing them with college and career readiness skills. Join us as we travel back in time to learn about Montana's historic past!

EDCI 591
Project Archaeology: Investigating a Plains Tipi
June 16-19, 2 credits; course repeated on July 21-24, 2 credits
Instructor: Crystal Alegria
Location: Museum of the Rockies, Bozeman
Join Project Archaeology at the Museum of the Rockies and learn how to bring archaeology and history into your classroom! You will receive the research-based curriculum guide *Project Archaeology: Investigating Shelter* which addresses the goals of the Montana Common Core. This guide will help you take learning to a deeper level by incorporating English language arts, social studies and science. The guide is inquiry-based, cross-curricular, includes performance-based assessments, incorporates the indigenous voice, and promotes cultural understanding. In the classroom, your students will learn to analyze artifacts, primary documents, and oral histories related to authentic archaeological sites using the basics of scientific inquiry (observation, inference, evidence and classification), providing them with college and career readiness skills. Join us as we travel back in time to learn about Montana's historic past!

AGED 588
Professional Development for MT Agricultural Educators
June 9-12, 2 credits
(See course information under Agricultural Education)

MUSE 591
Effective Teaching Strategies for Instrumental Music Education
June 16-19, 2 credits
Instructor: Sherry Linnerooth
Location: Camp Paxson, Seeley Lake, MT
This intensive session is an outstanding professional development opportunity for instrumental music teachers. It will allow total student/teacher immersion with experts and colleagues in the areas of music teaching and performance. Topics will include beginning and rebuilding a band program, standard and new repertoire for all band levels, a focus on woodwinds including double reeds, a special session on trumpet pedagogy, beginning drum set, teaching chamber music, and a session on Smart Music. Multiple sessions will be given to work on band rehearsal warm-ups, technique, and conducting, and class participants will have the opportunity to read new and standard concert band literature.

MUSIC

MUSE 591
Effective Teaching Strategies for Instrumental Music Education
June 16-19, 2 credits
Location: Camp Paxson, Seeley Lake, MT
Instructor: Sherry Linnerooth
This intensive session is an outstanding professional development opportunity for instrumental music teachers. It will allow total student/teacher immersion with experts and colleagues in the areas of music teaching and performance. Topics will include beginning and rebuilding a band program, standard and new repertoire for all band levels, a focus on woodwinds including double reeds, a special session on trumpet pedagogy, beginning drum set, teaching chamber music, and a session on Smart Music. Multiple sessions will be given to work on band rehearsal warm-ups, technique, and conducting, and class participants will have the opportunity to read new and standard concert band literature.

ONLINE COURSES

Extended University also offers the following fully online educational programs during Summer Session 2014:
- National Teachers Enhancement Network (NTEN)
- School Library Media Certification Program
- Family Financial Planning
- Licensed Addiction Counselor Certificate Program
- Educational Leadership – Superintendent Certification
- Master of Science in Land Resources and Environmental Sciences

For program descriptions and a list of associated courses offered this summer, please refer to the Summer Online Courses section starting on p. 35.
Gallatin College

Our Mission
The mission of Gallatin College is to be responsive to the workforce needs of the Gallatin Valley by developing, delivering, and continually improving quality educational programs and services that will allow individuals to achieve their goals and create opportunities that will enrich their lives.

Gallatin Valley residents now have access to some of the best benefits of a local two-year college!

Degrees

• Associate of Arts
  The Associate of Arts (A.A.) degree provides a foundation of general education studies with a concentration of coursework in the arts, humanities, and social sciences. This degree program is designed for students who are undecided about their educational goals, prefer smaller class sizes, need academic skills improvement, or desire a more gradual entrance into the University. The course offerings for this degree are scheduled to meet the needs of working adults and are offered primarily in the evening at a community location. Students may earn this degree as preparation to transfer to a Bachelor’s degree program at MSU or another university. Each student will follow a specific curriculum based on the student’s personal, long-term, and educational goals, as well as entering skills in math and writing.

• Associate of Science
  The Associate of Science (A.S.) degree provides a foundation of general education studies with a concentration of coursework in mathematics and natural sciences. This degree program is designed for students who are undecided about their educational goals, prefer smaller class sizes, need academic skills improvement, or desire a more gradual entrance into the University. The course offerings for the A.S. are scheduled to meet the needs of working adults and are offered primarily in the evening at a community location. Students may earn the A.S. degree as preparation to transfer to a Bachelor’s degree program at MSU or another university. The degree is well-suited for students who wish to pursue studies or a career in the sciences or the medical or technology fields. Each student will follow a specific curriculum based on the student’s personal, long-term, and educational goals, as well as entering skills in math and writing.

Career Opportunities

• Aviation
  The Associate of Applied Science degree gives you all the credentials required to pursue a career as a professional pilot.

• Bookkeeping
  This one-year Bookkeeping Certificate of Applied Science (CAS) will prepare students for entry level accounting-related positions that are utilized by a variety of businesses. The Bookkeeping program is designed to provide students with the knowledge and skills necessary for employment in an accounting profession. These employees manage accounts payable, accounts receivable, general bookkeeping, payroll processing, and a number of other functions in businesses of all sizes across the community. In many instances these workers function as office managers in small businesses.

• Design Drafting Technology
  Earning an Associate of Applied Science in Design Drafting will qualify you to work in any field where detailed drawings, diagrams and layouts are important aspects of developing new product designs and construction plans.

• Health Information Coding
  The Certificate of Applied Science (CAS)—Health Information Coding will provide students the opportunity to learn all aspects of medical coding. The CAS will offer students the ability to code and work in a variety of health care settings: hospitals, clinics, home health agencies, long-term care, insurance companies, consulting firms and software vendors. They will often work on the administrative team of a health facility. This program closely follows the standards set forth by the American Health Information Management Associations (AHIMA) certification program. Upon completion of the required 35 hours of course work, students are eligible to take the certifying examination offered through the AHIMA. This industry-specific certification demonstrates to the employer that this student has a particular aptitude in coding.

• Interior Design
  With the Associate of Applied Science in Interior Design, you will be qualified to work in a number of settings including independent consulting, design firms, architecture firms, kitchen and bath design, retail and window display, home builders, lighting stores, and many others.

• Medical Assistant
  Medical Assistants are specially trained to work in ambulatory medical settings such as physicians’ offices, clinics, and surgical centers. Medical Assistants function as members of the health care delivery team and perform administrative duties and basic clinical procedures. This program will prepare students for the workforce in response to the identified need of our growing health care provider community.

• Welding Technology
  This one-year Certificate of Applied Science degree in Welding Technology gives you the knowledge and skills to make satisfactory welds in all positions using the following techniques: shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, and flux cored arc welding. Graduates are prepared to test for AWS (American Welding Society) certification.

Developmental Education Program
Gallatin College offers preparatory courses in math, writing and college study skills to help MSU students who need to review or strengthen skills before they take on higher levels of these classes.

For more information:
Gallatin College
101 Hamilton Hall
Montana State University
Bozeman, MT 59717
(406) 994-5536
gallatincollege@montana.edu
www.montana.edu/gallatincollege
Summer Programs for Young People

OFFICE OF CONTINUING EDUCATION

For a brochure or more information contact:
Nicole Soll
(406) 994-6683
ContinuingEd@montana.edu
eu.montana.edu/ContinuingEd/youth

Peaks and Potentials
Grades 5-7, June 15-20
Peaks and Potentials is a residential/commuter camp designed for high ability/high potential students. Participants will select from a variety of workshops designed to provide academically challenging opportunities presented by university faculty and other qualified instructors. Recommendation from school personnel is required.

Children’s Summer Sports Camp
Session I: June 16-July 3
Session II: July 7-Aug. 1
Ages 5 to 11
Your child will get appropriate development instruction in a variety of movement and sport related activities including swimming, basketball, gymnastics and soccer. Sport related skills will be emphasized for older children. Movement exploration activities will be emphasized for younger children. Enrollment is limited to the first 110 children per session, so register early.

MUSEUM OF THE ROCKIES

Kids’ Summer Camps
The Museum of the Rockies offers week-long summer camps for children in elementary and middle school. Focusing on paleontology, space, homesteading and more, camp activities draw on the museum’s collections, researchers, and Living History Farm on the museum grounds. Registration opens in early January for camps.

Summer Drop-In Activities
From activities at the Farm to launching rockets, drop-in activities are guaranteed to keep your family eager to visit the museum again and again. Programs are offered throughout the summer and are included with the price of admission or membership.

For more information contact:
www.museumoftherockies.org

MSU EXTENSION SERVICE

Montana 4-H Congress
July 8-11
The annual Montana 4-H Congress will bring approximately 500 young people, volunteers and Extension professionals from around the state to the MSU campus for a week of educational activities and events. The program is co-sponsored by MSU Extension and the Montana 4-H Foundation.

For more information contact:
Your local county Extension agent or the 4-H Center for Youth Development
MSU Extension Service
210 Taylor Hall
Bozeman, MT 59717-3580
(406) 994-3501
www.montana4h.org

COMMUNITY PROGRAMS

Bozeman Parks and Recreation Department
The Bozeman Parks and Recreation Department offers a variety of programs, special events, and recreation classes in a variety of subjects for children, teens, adults and seniors. Children ages two and up may register for classes such as soccer, art, music and movement, Outdoor Adventure Skills, and many more. Outdoor fitness classes and leagues are available for teens and adults. Summer brochures are available in March.

For more information contact:
Bozeman Parks and Recreation Department
P.O. Box 1230
Bozeman, MT 59771
(406) 582-2910
www.bozeman.net/recreation

Beall Park Recreation Center Rental
The Beall Park Recreation Center located at 415 N. Bozeman Ave. is available for the public to rent for meetings, dinners, and other special occasions. The Recreation Center is also home to the Recreation Department staff offices.

Call for reservations:
Bozeman Parks and Recreation Department
(406) 582-2290

Lindley Center Rental
The Lindley Center, located at 1102 E. Curtiss, is the City of Bozeman’s Recreation Building and is available for the public to rent for meetings, dinners, receptions and other special occasions. The facility has two rooms and a kitchen.

Call for reservations:
Bozeman Parks and Recreation Department
(406) 582-2290
**Bozeman Swim Center**
The Bozeman Swim Center features a 50-meter indoor pool equipped with pool toys. There is also a fitness corner with stationary bikes and weight machines. The Center offers a variety of youth special events and family programs. The general public is invited to participate in water aerobics, lap swimming, recreation swimming, lessons, snorkeling, and a master’s workout, swim team or synchronized swimming. The Center offers lifeguarding classes which include CPR for the professional rescuer, first aid, and AED certification.

**Call for pool hours and fees:**
Bozeman Swim Center
1211 W. Main
(406) 582-2910

**Bogert Pool**
Bogert Pool is a family outdoor facility. The pool is open for recreation swimming beginning at 1:00 p.m. each day with a fee of $3.00 for youth and $4.00 for adults. Youth swimming lessons are offered beginning in June.

**Check website for opening info:**
www.bozeman.net/recreation
Special Summer Events

Summer 2014 brings special cultural events to MSU and the Bozeman community including musical and theatrical performances, historical exhibits, farmers’ markets, and an arts festival. There’s something for everyone here, so come join the fun!

MUSIC

Lunch on the Lawn
July-August
Sponsored by the Emerson, this free lunch time concert series features a variety of musical styles including blues, jazz, rock, bluegrass and others. Also enjoy local food vendors, hula hooping, face painting and more! Join other music lovers on the Emerson’s lawn, 111 S. Grand Ave., every Wednesday from 11:30 a.m.-1:30 p.m.

For more information:
Emerson Center for the Arts & Culture
(406) 587-9797
office@theemerson.org
www.theemerson.org

Music on Main
June-August
Every Thursday evening, June 26-August 14, downtown Bozeman comes alive by featuring a different musical group from an eclectic range of talent. Local restaurants and food vendors join the festival by providing an assortment of dinner options, drinks and treats. Kids’ activities begin at 6:30 p.m.; the free concerts begin at 7:00 p.m. and run through 8:30 p.m. Located on Main Street between Rouse and Black Avenues.

For more information:
Downtown Bozeman Association
(406) 586-4008
downtownbozeman.org
www.downtownbozeman.org

Bozeman Community Concert Band
June-August
Beginning mid-June through early August, the Bozeman Community Concert Band presents concerts every Tuesday evening in the Bogert Park Band Shell, South Church Avenue. Programs use traditional concert band literature including overtures, medleys, Broadway show tunes, and marches. The membership of the band consists of students and adults from throughout the Gallatin Valley as well as MSU students and other guest performers.

For more information:
Department of Music
(406) 994-3562
music@montana.edu

THEATRE

Shakespeare in the Parks
June-September
Montana Shakespeare in the Parks, a recipient of the 1991 Governor’s Award for the Arts, is entering its 42nd season presenting live, professional theatre productions in parks throughout Montana and surrounding areas. Montana Shakespeare in the Parks is the only professional theatre program in the state producing Shakespearean plays that offers its performances free to the public, ensuring that all are able to attend regardless of income level or community size. Whether performing in Birney or Billings, Shakespeare in the Parks has become a major summer event in communities across the region. A complete statewide tour schedule is available on the company’s website.

For more information:
Shakespeare in the Parks
(406) 994-3901
info@shakespeareintheparks.org
www.shakespeareintheparks.org

CELEBRATION OF THE ARTS

Sweet Pea Festival 2014
August 1-3
The Sweet Pea Festival, now in its 37th year, takes its name from the Sweet Pea carnivals held in Bozeman more than a century ago. The Festival is a celebration of the arts and includes a parade, arts and crafts sales, a juried art show, children’s activities, a flower show, dining on Main Street, theatre, music and dance workshops and performances, and major evening concerts. Most activities are located in Lindley Park at the east end of Bozeman’s Main Street. The Festival is supported by admission to the event (sold in advance or at the gates) and is run and organized by volunteers in the community.

Preceding the weekend Festival, Sweet Pea presents the annual Bite of Bozeman on Wednesday, July 30 from 6:00-9:00 p.m. Come mingle on Main Street with your friends and family, enjoy the fine cuisine offered by more than 40 local restaurants, and listen to great local bands.

For more information:
Sweet Pea Festival
(406) 586-4003
admin@sweetpeafestival.org
www.sweetpeafestival.org

Art Walks
June-September
Every second Friday of the month, June through September (June 13, July 11, August 8, September 12), meander down Main Street from 6:00 to 8:00 p.m. and investigate Bozeman’s impressive collection of galleries. Meet artists at opening receptions or explore the past with some of the finest collections of Western art in the world. Live music while you stroll. Galleries feature wine and hors d’oeuvres.

For more information:
Downtown Bozeman Association
(406) 586-4008
downtownbozeman.org
www.downtownbozeman.org

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**MUSEUM EXHIBITS**

**Museum of the Rockies**

MSU’s Museum of the Rockies houses one of the world’s largest and most significant collections of dinosaur fossils. Visit the Museum to learn about surprising new discoveries in dinosaur research, experience pioneer life at the Living History Farm, explore the greater Yellowstone region’s Native American cultures, and journey to the stars in the Taylor Planetarium. Plus, visit our newest permanent exhibit, Explore Yellowstone: Martin Children's Discovery Center, geared for infants to 8-year-olds.

The Museum is most well known for its paleontology program. The Siebel Dinosaur Complex maintains more than 10,000 square feet of displays and thousands of fossils. The Complex houses the exhibit Dinosaurs Under the Big Sky, based on work of world-renowned paleontologist and advisor to the Jurassic Park films, Jack Horner.

The Dinosaur Complex features fossils and new research that have made headlines worldwide, including the discovery of 68-million-year-old soft tissue, blood cells, and protein in a T.rex femur; and the discovery of one of the first identified female dinosaurs in the world—an egg-laying T.rex.

**New Exhibit**

**Geckos—Tails to Toepads!**

Opening Feb. 22, 2014

Geckos are endowed with a charisma that marketing firms can’t resist and audiences can’t ignore! From nighttime hunters to neon-colored nectar eaters, visitors will experience the Geckos’ world in lush, naturalistic habitats, complete with rock ledges, live plants and waterfalls. Come listen to Gecko voices, learn about Gecko night vision, or try to spot camouflaged Geckos. This family friendly exhibit presents cutting-edge science where visitors are totally immersed in the sights, sounds and surroundings of this remarkable species with their bulging eyes, “sticky” toepads and squawking voices.

**Kids’ Summer Camps**

Please see Museum of the Rockies information under “Summer Programs for Young People,” p. 62 of this bulletin.

**Taylor Planetarium**

The Taylor Planetarium invites you to learn more about Montana’s big sky and its starry night skies. Thanks to a complete renovation, the Taylor Planetarium is now a state-of-the-art facility with new lighting, sound and projection systems. On the schedule for summer 2014 are Cosmic Colors, a wondrous journey across the entire electromagnetic spectrum; The Big Sky Tonight, a live description of the current night sky; and One Sky, One Sky: Big Bird’s Adventure for the little stargazers in the family. For more information, log onto www.museumoftherockies.org

**Museum Store**

The Museum Store features “made in Montana” jewelry, pottery, soaps, and a wide variety of regional goods as well as a large selection of books and materials related to Museum exhibits and offerings. In addition, the store has educational products, delicious edible goods, and great gifts for tots, kids of all ages, and adults. Of course, it is your headquarters for all things dinosaur too!

**Visiting the Museum**

**Location:**
Southern edge of the MSU campus near Sales Stadium

**Summer Hours:**
8:00 a.m. to 8:00 p.m.

**Admission Fee:**
An admissions fee is charged to non-members; group rates are available. Please visit our website for current admission rates.

For more information:
Museum of the Rockies
600 W. Kagy Blvd., Bozeman
(406) 994-2251
museum@montana.edu
museumoftherockies.org

**American Computer Museum**

Open since 1990, the American Computer Museum in Bozeman is the world’s oldest continually operating exhibition dedicated to the history of the Information Age. This award winning museum has assembled more than 5,000 years of technology through thousands of artifacts displayed in a visitor friendly environment. The exhibits are designed to appeal to both the novice and technology expert. See scores of displays including original Babylonian clay tablets, historic Bible leaves, and Isaac Newton’s the Principia and the Opticks. Travel through the evolution of the information age with exhibits such as the telegraph, telephone, radio, television, slide rules, computers and computer technology—including the ENIAC, Apple 1, the Internet, and DNA.

**Museum Location & Hours**

**Location:**
2023 Stadium Dr., Suite 1-A
Bozeman

**Summer Hours (June-August):**
Daily: 10:00 a.m. to 4:00 p.m.
(closed July 4th)

**Admission:**
Free (donations welcomed)

**Group Tours:**
Available by appointment

For more information:
American Computer Museum
(406) 582-1288
director@compustory.com
www.compustory.com

**The Pioneer Museum**

**Gallatin Historical Society**

The Pioneer Museum of Bozeman, operated by the Gallatin Historical Society, preserves and promotes the history of Gallatin County and southwest Montana. Located in the former county jail and listed on the national register of historic places, the museum features dozens of displays on various aspects of local history, including the American Indian, Lewis and Clark, fur trappers, gold miners, pioneers, and settlers.

Indian tools and arrowheads are shown on the main floor, as is the impact of the Sioux War of 1876 and the trek of the Nez Perce under Chief Joseph in 1877. The routes used by Lewis and Clark...
and some of the fauna and animals they discovered are part of a display that also features implements used by fur traders. There are also scale models of wagons, stagecoaches, and even a keelboat.

The Fort Ellis display explores the importance of the military post to the early growth and development of Bozeman. The museum's gun collection includes rifles and pistols manufactured in the 1800s by Remington and Sharps and a single-bore cannon used in fights against the Sioux nation in the Yellowstone Valley. The agricultural room has tools and implements used by early farmers, including a butter churn, sheep shears, a drill press, and a centrifuge.

An overview of every community in the county is available in the balcony area, as is a display on the history of the Sweet Pea Festival. A turn-of-the-century lady’s parlor shows furniture and keepsakes treasured by 19th century Montana women. Visitors can also learn about the history of Montana State University and the earthquake-prone Gallatin Canyon.

Because the building was once the county jail, visitors will get to view jail cells and even a hanging gallows during their tour. The museum also houses a research center that stores nearly 17,000 historical photographs, as well as documents, newspapers, journals and diaries on local history. The museum bookstore holds hard-to-find books on southwest Montana history.

Museum Location & Hours
Location: 317 W. Main St., Bozeman
Summer Hours: Monday-Saturday, 10:00 a.m.-5:00 p.m.
Admission Fee: $5.00 per person (children age 12 and under, and Museum members admitted free)

For more information: The Pioneer Museum (406) 522-8122 pioneermuseum@montana.com www.pioneermuseum.org

FARMERS’ MARKETS

**Bogert Farmers’ Market**
June-September
Gather, socialize and share at a great community event, the Bogert Farmers’ Market, held every Tuesday evening from 5:00-8:00 p.m. starting in early June. Locally grown produce, arts, crafts, music, food, family activities and more are featured each week at Bogert Park, South Church Avenue. The Market is a non-profit and commits its revenues to the preservation and improvement of Bozeman parks.

For more information: Bogert Farmers’ Market (406) 539-0216 www.bogertfarmersmarket.org

**Gallatin Valley Farmers’ Market**
June-September
The original Gallatin Valley Farmers’ Market is a project of Career Transitions, a non-profit organization providing job search activities for the past 30 years. In addition to fresh vegetables, fruits, and herbs sold by local growers, the Gallatin Valley Farmers’ Market offers arts and crafts, baked goods, jewelry, coffee, and beef and pork. Free and open to the public, the Market is held every Saturday morning, June 21-Sept. 13, from 9:00 a.m.-12:00 noon at the Gallatin County Fairgrounds on Tamarak Street.

For more information: Gallatin Valley Farmers’ Market (406) 388-6701 farmersmarket@careertransitions.com www.gallatinvalleyfarmersmarket.com

COUNTRY FAIR

**Gallatin County Fair**
July 16-20
The Gallatin County Fair celebrates the Montana lifestyle with music, livestock, special entertainment, children’s activities, competitive exhibits, carnival, food, agriculture education, class exhibits, 4-H exhibits and animals, rodeo, mud bog, dog contests and more. The Fair always starts on the third Wednesday every July. Located at 901 N. Black, Bozeman.

For more information: Gallatin County Fair (406) 582-3270 www.gallatincountyfair.com facebook.com/gallatincountyfairgrounds

CRAZY DAYS

**Downtown Crazy Days**
July 18-20
It’s the biggest, the best and the original—it’s the Downtown Crazy Days on the third weekend in July. From 10:00 a.m. to 6:00 p.m., downtown merchants take to the sidewalks with unbelievable sales on spring and summer merchandise.

For more information: Downtown Crazy Days (406) 586-4008 www.downtownbozeman.org

**“Cruisin’ on Main” Annual Car Show**
August 17
Car enthusiasts are invited to enter their vehicles in the “Cruisin’ on Main” Annual Car Show. All classes are welcome. Entrants may preregister ahead of time or register on the day of the show. Dash plaques will be presented to the first 50 cars to register and trophies will be awarded in all classes including Best of Show. The Show is always held on the third Sunday of August, 9:00 a.m. to 3:00 p.m., on Main Street between Rouse and Willson Avenues.

For more information: “Cruisin’ on Main” (406) 586-4008 www.downtownbozeman.org
Admission Form

Undergraduate Students—all new undergraduate students—whether they be degree-seeking, non-degree, or summer-only—must complete the MSU Application for Admission, available online at www.montana.edu/wwwcat/appopts.html. A paper application is also available from the Office of Admissions upon request: (406) 994-2452 or admissions@montana.edu.

Graduate Students—New graduate students may access an online application for admission by going to www.montana.edu/gradschool/apply.html. Paper applications are available upon request from the Graduate School: (406) 994-4145 or gradschool@montana.edu.

Course Registration

New and summer-only undergraduate students will no longer be using a paper form to register for classes. Please refer to p. 4 for instructions regarding course registration.

Intent to Register Form

The Intent to Register form is used by former students to notify the Office of the Registrar that they wish to return to enrollment at MSU. Former students are those who have previously been admitted to MSU and paid fees, but who did not attend or withdrew from Spring Semester 2014. Former students who wish to attend Summer Session 2014 should file an Intent to Register form 30 days prior to registration, using the online form through MyInfo:

- Enter Secure Area, Login
- Select Student Services
- Select MSU Bozeman Online Intent to Register

The Registrar’s Office will send registration information to students via the email address they have provided on the Intent to Register form.

Summer Housing Applications

- Residence Hall Applications: www.montana.edu/reslife
  Call (406) 994-2661 for more information
- Family & Graduate Housing Applications: www.montana.edu/fgh
  Call (406) 994-3730 for more information
The following pages contain information regarding important university policies, telephone numbers of prominent campus offices, an index to this bulletin, and a campus map. Questions not answered in these pages may be directed to the Office of Summer Session, (406) 994-7136 or summer@montana.edu.

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Important University Policies

Non-Discrimination Policy and Discrimination Grievance Procedures

Montana State University is committed to providing a working and learning environment free from discrimination. Discrimination or harassment based upon race, color, religion, national origin, ethnicity, creed, service in the uniformed services (as defined in state and federal law), veteran status, gender, age, political beliefs, marital or family status, pregnancy, physical or mental disability, genetic information, gender identity, gender expression, or sexual orientation or preference is prohibited.

The University is committed to taking positive and effective actions in the recruitment, hiring, training, and promotion of persons in all classes of employment to help overcome the present effects of past discrimination and increase opportunities for qualified women and minorities, persons with disabilities, and covered veterans. In addition, Montana State University assumes particular responsibility for providing opportunities for education and training for the state’s Native American peoples in the various disciplines and professions that are characteristic of this land-grant university.

Any student, employee, applicant for employment or admission, participant in University activities or other person who believes he or she was subject to discrimination in violation of the policies of the university may file a complaint under the university Non Discrimination Policy and Grievance Procedures. Refer to the Office of Institutional Equity (OIE) website to submit a complaint online www.montana.edu/equity/discrimination/ or contact OIE at (406) 994-2042, Hamilton Hall Room 118.

Employees or students who commit and/or supervisors who knowingly condone or fail to report incidents of discrimination are subject to disciplinary actions when instances of discrimination are identified and confirmed. Knowingly filing false complaints of discrimination or knowingly providing false testimony may result in disciplinary or corrective action when instances of such conduct are identified and confirmed. Retaliation against persons who file complaints or serve as witnesses is also a violation of laws prohibiting discrimination and will lead to appropriate disciplinary action against offenders when instances of such conduct are identified and confirmed.

Montana State University affords any student, employee, applicant for employment or admission, participant in University activities or other person who believes he or she was discriminated against by the University, the right to file a grievance on grounds of discrimination. As a condition of their employment and enrollment, employees and students are expected to cooperate in investigations of complaints of discrimination. Failure to cooperate will result in disciplinary action.

Sexual Harassment

Sexual harassment is unwelcome sexual advances, requests for sexual favors, sexual misconduct, and other physical or verbal conduct of a sexual nature, when:

- Submission to such conduct is made either explicitly or implicitly a condition of an individual’s employment, education, living environment or participation in a university activity;
- Submission to or rejection of such conduct by and individual is used as the basis for or a factor in decisions affecting that individual’s employment, education, living environment, or participation in a University activity;
- Such conduct has the purpose or effect of unreasonably interfering with an individual’s employment or educational performance or creating an intimidating, hostile, offensive, or abusive environment for that individual’s employment, education, living environment, or participation in a University activity;
- Such conduct is so pervasive or severe that it has the purpose or effect of unreasonably interfering with an individual’s work or academic performance or limiting participation in University programs;
- The intent or effect of such pervasive or severe conduct is to create an intimidating, hostile, or offensive academic or work environment

Whether conduct constitutes sexual harassment is determined based upon both a subjective and objective standard, as well as consideration of the totality of the particular circumstances, including the nature, frequency, intensity, location, context, and duration of the behavior. Although repeated incidents generally create a stronger claim of sexual harassment, a serious incident, even if isolated, can be sufficient.

Title IX of Education Amendments of 1972 (Title IX)

Title IX and its implementing regulation, at 34 C.F.R. § 106.31 (a), provide that no person shall on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any academic, extracurricular, research, occupational training, or other education program or activity operated by the University.

Title IX of the Education Amendments of 1972 (“Title IX”) and the Montana Human Rights Act prohibit discrimination on the basis of sex in education programs and activities. Discrimination based upon sex can include sexual harassment or sexual violence, such as sexual intercourse without consent, sexual assault, and sexual coercion. Title IX also prohibits gender-based harassment, which may include acts of verbal, nonverbal, or physical aggression, intimidation, or hostility based on sex or sex-stereotyping, even if those acts do not involve conduct of a sexual nature.

The Title IX Coordinator for Montana State University-Bozeman is:

Diane Letendre
Director – Office of Institutional Equity
Montana State University
P.O. Box 172430
Bozeman, MT 59717-2430
Tel: (406) 994-2042
Fax: (406) 994-7999
E-mail: oie@montana.edu
Location: 118 Hamilton Hall
http://www.montana.edu/titleix/
Any student or visitor with questions or concerns about sex discrimination or sexual harassment or who believes that he or she has been the victim of sex discrimination or sexual harassment may contact the Title IX Coordinator for assistance. The Title IX Coordinator is responsible for receiving and conducting the administrative investigation of reports of sexual harassment and assault filed on campus by students and employees, and is available to discuss options, explain university policies and procedures, and provide education on relevant issues. To submit a complaint online, http://www.montana.edu/titleix/ or contact the Title IX Coordinator in the Office of Institutional Equity located at 118 Hamilton Hall, (406) 994-2042.

Consensual Relationships
http://www2.montana.edu/policy/affirmative_action/aa100.html#180.00_Relationships
A consensual romantic relationship in which one party is in a position to evaluate the work of the other is a potential conflict of interest. When such a potential conflict of interest results between employees or an employee and a student, the employee shall promptly disclose the potential conflict of interest to his or her supervisor. The supervisor and the employee shall take steps to ensure that there is no conflict of interest.

Non-Discrimination Policy Based on Disability
The University is committed to eliminating disability-based discrimination against qualified persons with disabilities and to making appropriate reasonable accommodation for any known disability that interferes with an applicant’s ability to compete in a selection process, an employee’s ability to perform the essential functions of a job, a student’s ability to meet the essential requirements of an academic program, or a person’s ability to benefit from a University service or participate in a University sponsored or hosted event.

All applicants, employees, students or participants, including those with disabilities, are expected to be able to perform the essential functions of the position or program, with or without reasonable accommodation.

It is the responsibility of the applicant, employee, student or participant with a disability to inform the appropriate person, as indicated below, that an accommodation is needed:

1. To request accommodation in a job application or interview process, contact: The hiring authority or chair of the search committee of the search, as indicated on the vacancy announcement or contact Human Resources, (406) 994-3651. www.montana.edu/hr/

2. To request accommodation in employment, including concerns about job duties, contact: The direct supervisor or the Office of Human Resources, (406) 994-3651 or www.montana.edu/hr/

3. To request accommodation when applying for admission to the University, contact: The Director of Admissions, (406) 994-2452, if applying for undergraduate admission; or the Dean of the Graduate School, (406) 994-4145, if applying for graduate admission.

4. To request accommodation when applying for housing or to request housing accommodation, contact: Residence Life and University Food Service, (406) 994-2661, if applying for housing in the residence halls; or Family Housing, (406) 994-3730, if applying for family or graduate housing.

5. To request accommodation related to an academic program or requirement, class, or other educational opportunity or activity, contact: The Office of Disability, Re-Entry and Veteran’s Services, Room 155, Strand Union Building, (406) 994-2824.

6. To request public accommodation or accommodation to participate in a University sponsored or hosted event, contact: The Event Sponsor or the University Compliance Officer, (406) 994-2042.

University Compliance Officer
The University Compliance Officer and the office responsible for the University’s compliance efforts is:

Director of the Office of Institutional Equity
Montana State University
Hamilton Hall Room 118
P.O. Box 172340
Bozeman, MT 59717-2430

Phone: (406) 994-2042
Fax: (406) 994-7999
Email: oie@montana.edu
www.montana.edu/equity/

Procedures for filing complaints of discrimination, harassment or violations of Title IX are available electronically at: http://www2.montana.edu/policy/affirmative_action/ or in print from the address above.
Telephone Numbers (Area Code 406)

Academic Affairs, Office of the Provost and Vice President .....................994-4371
212 Montana Hall

Administration and Finance, Office of the Vice President .....................994-4361
201 Montana Hall

Admissions, Office of ..................994-2452
201 Strand Union

Agriculture, College of ...............994-3681
202 Linfield Hall

Arts and Architecture, College of ...................................994-4405
217 Cheever Hall

ASMSU, Student Government ........994-2933
281 Strand Union Building

Bookstore ..................................994-2811
185 Strand Union Building

Business, College of ..................994-4421
408 Reid Hall

Career Services .........................994-4133
125A Strand Union Building

Counseling and Psychological Services .....................................994-4531
211 Swingle Health Center

Disability, Re-Entry and Veteran Services .........................994-2824
180 Strand Union

Education, Health and Human Development, College of ........994-4133
250 Reid Hall

Engineering, College of ...............994-2272
214 Roberts Hall

Extended University
Burns Technology Center (BTC) ........994-6550
128 EPS Building
Continuing Education, Office of ...........994-6683
204 Culbertson Hall

Extension, Office of the Dean and Director .........................994-6647
205A Culbertson

Financial Aid Services ...............994-2845
183 Strand Union Building

Graduate School ..........994-4145
108 Montana Hall

Health Service .....................994-2311
121 Swingle Health Center

International Programs ........994-4031
400 Culbertson Hall

Letters and Science, College of ..................................994-4288
2-205 Wilson Hall

Library ..........................................994-3119

Museum of the Rockies .............994-2251

Nursing, College of .........994-3783
115 Sherrick Hall

Outdoor Recreation Center ....994-3621
1401 W. Lincoln Street

PE Complex .................................994-5500
114 Hosaeus

Police, Campus .........................994-2121
Huffman Building

Post Office ................................994-2672
114 Culbertson Hall, 1st Floor

President, Office of the ..........994-2341
211 Montana Hall

Registrar, Office of ...............994-6650
101 Montana Hall

Research, Creativity and Technology Transfer, Office of the Vice President 994-2891
207 Montana Hall

Residence Life .........................994-2661
31 Hedges Complex

Strand Union Building
ASK US Information .................994-4636
ASMSU ........................................994-2933
Food Service .........................994-3663
Recreation Center
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Student Activities ......................994-3591
282 Strand Union Building

Student Success, Office of ..........994-7627
177 Strand Union Building

Students, Dean of .................994-2826
120 Strand Union Building

Summer Session, Office of ..........994-7136
212 Montana Hall

Testing Service .......................994-6984
243 Reid Hall

University Studies ................994-3532
130 Gaines Hall

Women’s Center ....................994-3836
372 Strand Union Building

ADDITIONAL INFORMATION

Catalog
Office of Admissions
201 Strand Union Building
P.O. Box 172190
Montana State University
Bozeman, MT 59717-2190
(406) 994-2452
Toll free 1-888-MSU-CATS
admissions@montana.edu
www.montana.edu/admissions

Financial Aid
Office of Financial Aid
183 Strand Union Building
P.O. Box 174160
Montana State University
Bozeman, MT 59717-4160
(406) 994-2845
www.montana.edu/wwwfa
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