Welcome to the Bitterroot College Summer 2017 Continuing Education Catalog. Find a course you like? There are **four easy ways to register!**

1. **Register Online**  
   www.umt.edu/bitterroot-college

2. **Register by Phone**  
   406.375-0100

3. **Register in Person**  
   103 S 9th St, Hamilton

4. **Register by Mail**  
   Complete registration form below or download one online at www.umt.edu/bc. Send completed form and check payable to Bitterroot College at 103 S 9th St, Hamilton, MT 59840

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**Continuing Education Registration Form**  
*Mail form & check to: Bitterroot College, 103 S 9th St, Hamilton, MT 59840*

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</tbody>
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Questions? Call **406.375-0100** or email **bc@umontana.edu**
What's Inside...

CONTINUING EDUCATION - SUMMER 2017

<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>General Information &amp; Policies</td>
</tr>
<tr>
<td>5</td>
<td>Art &amp; Photography</td>
</tr>
<tr>
<td>6</td>
<td>Business</td>
</tr>
<tr>
<td>8</td>
<td>Computers</td>
</tr>
<tr>
<td>8</td>
<td>Outdoors</td>
</tr>
<tr>
<td>10</td>
<td>Special</td>
</tr>
</tbody>
</table>

WORKFORCE TRAINING - SUMMER 2017

<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>General Information</td>
</tr>
<tr>
<td>13</td>
<td>Certified Phlebotomy Technician</td>
</tr>
<tr>
<td>13</td>
<td>Commercial Driver License (CDL) Training</td>
</tr>
</tbody>
</table>

BITTERROOT FABLAB - SUMMER 2017

<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>General Information &amp; Membership Levels</td>
</tr>
<tr>
<td>15</td>
<td>Course Schedule &amp; Course Descriptions</td>
</tr>
<tr>
<td>15</td>
<td>Individualized Training &amp; Project Consultation Information</td>
</tr>
</tbody>
</table>

COLLEGE COURSES - FALL 2017

<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Fall Course Schedule</td>
</tr>
<tr>
<td>20</td>
<td>Fall Course Descriptions</td>
</tr>
</tbody>
</table>

The Bitterroot College connects a diverse rural community to a wide array of learning opportunities. We achieve student success, lifelong learning, and community engagement through responsive and accessible academics, workforce preparation, and enrichment programming.
Continuing Education

Continuing Education courses at Bitterroot College are open to all community members and do not require college admissions.

Art & Photography  Outdoors
Business       Special Subjects
Computers

CLASS LOCATIONS

Bitterroot College  Hamilton High School
103 S 9th St, Hamilton  327 Fairgrounds Rd, Hamilton

Bitterroot FabLab  Ravalli Entrepreneurship Center (REC)
103 S 9th St, Hamilton  274 Old Corvallis Rd, Hamilton

REGISTRATION & PAYMENT

To register for Continuing Education courses, follow the instructions on page 2 of this catalog. Continuing Education courses must be paid for in full at least three (3) business days prior to class start date. All courses have a minimum enrollment requirement. Please register on time to avoid course cancellation.
BASIC LEATHERWORKING
Th       June 15        1:00-4:00pm   $25   Belt Project
Th       July 13        1:00-4:00pm   $25   Wallet Project

A project-based, introduction to leatherworking skills course. Learn basic leatherworking techniques, how to use leatherworking tools, and how to select project materials. Instructors: Liza & Michael Wright. Class Location: This class takes place at Wright Custom Saddles & Repair in Victor.

AFTER THIS, YOU ARE AN ARTIST!
WTh       June 21 & 22   1:00-3:00pm   $30   BC 105

This motivational lecture and discussion is for everyone who aspires to become an artist. It’s less about making art and more about seeing yourself as the artist you want to become. It is the power of the spoken word when combined with a plan of action. Instructor: Bruce Defoor

HOW TO TAKE GREAT PICTURES WITH YOUR DIGITAL SLR
W       June 21- July 26      6:00-8:00pm   $130   BC 118
Sa   July 22 (field trip)

There are four elements that create a great photograph: a good subject, creative composition, exceptional lighting, and the correct exposure. We will concentrate on these key elements and more to enhance your photographs. Instructor: Bob Cumming

COMBINING COLOR & WATERCOLOR PENCILS
MWF       June 26-30      1:30-3:30pm   $50   BC 118

Combine both types of color pencils in one project. We will practice different techniques for creating detailed, loose, bold, and soft styles and perspective, depth, shading, shadow, and
highlight variations. No experience necessary. Instructor: KJ Kahnle. Students provide: set of 12+ colored pencils, 12+ water color pencils, sharpener, eraser, and soft brushes: 1 small round #6-8, 1 small flat #4-6, 1 small filbert # 6-8

PAINTING OUTSIDE (IN FRONT OF THE WHOLE WORLD!)  
WTh June 28 & 29 9:00am-12:30pm $50 BC 105

It’s time to see your surroundings again for the first time. How to paint what you see, not what you ‘think’ you see. Learn to catch the effects of light and shadow and basic perspective as we capture scenes in and around downtown Hamilton. Learn to be happy with what you are creating. Bring any medium you want, but the emphasis will be on watercolor and pastel. A folding chair and/or easel is helpful. Instructor: Bruce DeFoor

Business

INTRO TO SMALL BUSINESS PLANNING  
Tu June 13 10:00am-1:00pm FREE REC Conf Rm

This FREE workshop is designed to get you over the hurdle of getting started on the critical ongoing planning that is essential to business success, without fixating on the creation of a formal document. Lunch included. Instructor: John Schneeberger

FINANCIAL MANAGEMENT  
Th June 15 9:00am-12:00pm $25 REC Conf Rm

Learn the basics of creating and using profit and loss, cash flow, and balance sheet statements. Also includes how to create financial projections and financial management best practices for small business. Instructor: Lisa Glenn
GETTING SMALL BUSINESS EMPLOYEES ENGAGED  
Tu   June 20  9:00am-12:00pm   $25   BC Rm 118

There is a significant difference in productivity between the motivated and engaged employee who is a cherished asset to the small business owner and the opposite employee who lacks initiative and interest in the company’s success. Learn the formula and actions which allow for the latter to become the former!  
Instructor: Ken Riemer

BASICS OF BUSINESS LAW  
Th   June 22  8:30-11:30am   $25   REC Conf Rm

This class covers several aspects of law including the legal business structures that small businesses assume, reasons why to select each one, and what their advantages and disadvantages are. Negotiations, contracts, intellectual property and legal liabilities are explored. Instructor: Richard Weber

HIRING & FIRING  
Tu   June 27  9:00am-12:00pm   $25   REC Conf Rm

Save your business legal headaches and bills as well as lost productivity time - learn the basic rules of sound Human Resource Management. Course covers frequent problem areas in human resources: wage and hour laws, hiring processes, progressive discipline, benefits of contractor vs. employee, tax credits when hiring, on-the-job training, incumbent worker training, wrongful termination, required employer posters, and more! Instructor: Adam Sangster

GIVING EFFECTIVE FEEDBACK AND ADDRESSING MARGINAL PERFORMANCE  
Th   June 29  9:00am-12:00pm   $25   BC Rm 118

Leadership coach Ken Riemer understands that the number one challenge of most executives and managers is addressing marginal performance. Riemer recognizes that performance issues are especially challenging for small businesses with family/friends as key employees. Learn Riemer's employee performance strategies and tactics that get results. Instructor: Ken Riemer
Computers

**COMPUTER CONFIDENCE**

*MWF  June 19-30  10:00am-12:00pm  $50  BC 103*

Course is designed to give students the skills required for navigating Windows 10. Material is presented in a friendly and supportive format. Students learn basic computer concepts, develop mouse and keyboard skills, and explore & practice using the Internet and email all within the Windows 10 environment.

**WORD BASICS**

*MWF  July 17-28  9:00-10:30am  $65  BC 103*

You will learn to create and save documents, navigate the toolbars, enter and manipulate text, and other basic functions. Prerequisite: basic computer knowledge.

Outdoors

**NATIVE PLANT COMMUNITIES OF WESTERN MONTANA**

*W  July 5-26  6:00-7:30pm  $45  First Meeting BC 104*

Enjoy weekly hikes to visit river bottom forest, sagebrush, conifer forest, and alpine habitats. Learn to identify native plants, understand how they thrive in harsh environments, and enjoy being outdoors. We will meet at local trailheads for a 1/1.5-hour walk, discussion, and variety of activities. *Instructor: Tim Meikle*
BEGINNING FLYFISHING
TuTh July 11-20 7:00-8:30pm $45 BC 111
TuTh Aug 8-17 7:00-8:30pm $45 BC 111
Course provides a practical and enjoyable entry into the sport of flyfishing. First class reviews comfort, safety, and tackle requirements; remaining classes emphasize ‘hands on’ approach to fly casting, finding fish, choosing the right fly, knot tying, and other aspects needed for fishing independently with confidence. Instructor: Chuck Stranahan. Students provide basic rod, reel, line, and leader (discussed at first class; not needed for first class).

BIRDING BASICS
Tu July 11 (classroom) 6:00-7:30pm $50 BC 117
Th July 13 (fieldtrip) 6:00-7:30pm Location TBA
Sat July 15 (fieldtrip) 7:00-11:00am Location TBA
Learn basic birding how-tos, where to look for birds in the Bitterroot, and what gear is recommended. First night is classroom time; second night and Saturday morning are field trips. Instructor: Deborah Goslin. Student provides binoculars (not needed until field trips).

EXPLORATIONS IN ASTRONOMY - ECLIPSE VERSION!
W July 19-Aug 9 4:00-5:00pm $30 BC 111
Structured as a series of "explorations," this course covers topics from the history and fundamentals of astronomy to current research and ideas in astrophysics and cosmology. Subjects include planetary astronomy, stellar evolution, quasars, and black holes. Data and imagery collected by planetary probes launched by NASA and other agencies is discussed as it becomes available. Instructor: Thomas Engelmann

THE GREAT ECLIPSE CAPER - FREE
On August 21, 2017, Montanans can be a part of a unique event: a solar eclipse that will be nearly total, depending on your location. The duration of the eclipse will be around two hours and forty-five minutes, with 95% totality occurring at approximately 11:30 AM. The Bitterroot College will have a telescope observing the sun during the event and eclipse glasses available.
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<tr>
<th>Course</th>
<th>Days</th>
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<tr>
<td><strong>BASIC AMERICAN SIGN LANGUAGE</strong></td>
<td>Tu</td>
<td>June 6-July 18</td>
<td>6:00-8:30pm</td>
<td>$110</td>
<td>BC 119</td>
<td>Kristen Pound</td>
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<td>This introductory course teaches the basics of American Sign Language (ASL) and is designed for students who have little or no previous knowledge of ASL. Readiness for learning will be approached via visual-gestural communication techniques, visual discrimination, and visual memory exercises. 15 OPI CEUs available. <strong>Required:</strong> Signing Illustrated: The Complete Learning Guide, by Mickey Flodin (Available on Amazon for $14.59)</td>
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<td><strong>GUITAR BASICS</strong></td>
<td>TuTh</td>
<td>June 13-July 27</td>
<td>6:00-7:30pm</td>
<td>$130</td>
<td>BC 118</td>
<td>Richard Bishop</td>
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<td>This 8-week course will help you get started on your dream of being a guitar player! You will receive hands on basics in playing chords, as well as picking melodies, learning to tune your guitar, and basic music reading skills. Bring your own guitar. <strong>Instructor:</strong> Richard Bishop. No class week of July 4.</td>
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<td><strong>HIMALAYAN SINGING BOWLS OF NEPAL</strong></td>
<td>W</td>
<td>June 14-28</td>
<td>6:00-7:30pm</td>
<td>$45</td>
<td>BC 111</td>
<td>Jen Wandler</td>
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<td>Listening to Himalayan Singing Bowls is a unique experience! When listening to the bowls with intention, the resonance can promote a deep sense of relaxation. With the addition of a gong, tingsha, and chimes, it's a meditative concert for the soul! Basic history, applications, and play will be covered. Bring a blanket and pillow for your comfort. <strong>Instructor:</strong> Jen Wandler</td>
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Special Topics
MUSIC WITH CHILDREN  
Th  June 15-July 27  6:00-7:30pm  $85  BC 105  
This class offers both parents and daycare providers/teachers a well-crafted, sequential, collection of songs, dances, and games to use with children. This is a hands-on learning class, where we will sing, dance, play, and drum. You will leave with the tools to actively engage with your children in music activities to enrich your classes, bedtime routines, family time, transitions, and fun time! Note: Children are welcome! 12 OPI CEUs available.  
Instructor: Becky Bishop. No class week of July 4.

WELDING BASICS  
TuWTh  June 27-29  5:00-9:00pm  $250  Hamilton HS  
TuWTh  July 18-20  5:00-9:00pm  $250  Hamilton HS  
Introduction to the different types of welding processes and applications. Overview of different types of metals and their applications as well as joint types and preparation.  
Instructor: Scott Ellis

SMASH BOOK CREATIVE JOURNALING: TRANSFORM YOUR LIFE WITH ONE WORD  
Th  July 6  9:00am-3:00pm  $55  BC 118  
Join me for a one-day workshop to create a Smash Book with the intention of finishing 2017 as the best year yet! First, you will create a journal like you’ve never seen before (it may not be pretty, but it will be pretty amazing)! Using guided imagery and the concept of having a 'word' to focus on for the rest of the year, we will create a plan to use your journal in a whole new way! Please bring a sack lunch.  
Instructor: Jen Wandler

GENTLE YOGA  
MW  July 10-26  9:00-10:00am  $45  BC 105  
Start the day with a gentle yoga practice with a focus on body alignment and breath. Learn to safely stretch and strengthen the body and leave the class feeling relaxed, refreshed, and ready for the day. The class is geared towards beginners, but experienced yogis are welcome. Please wear comfortable clothing and bring a yoga mat.  
Instructor: Val Aerni
Workforce Training

Workforce Training programs at Bitterroot College are designed to give you the skills you need to meet the demands and to succeed in your industry. These programs do not require college admission but do require individual applications for each program.

PLAN FOR SUMMER 2017!

- CPT Certified Phlebotomy Technician - Starts June 12!
- CDL Commercial Driver License - Starts August 28!

PLAN FOR FALL 2017!*

- W Welding Certifications
- BK Bookkeeping Certification
- CNA Certified Nurse Aide
- CPT Certified Phlebotomy Technician

*Dates and times for Fall 2017 Workforce Training programs will be available by July 2017; keep checking our website for scheduling and application updates!
Summer 2016 Workforce Training

**CERTIFIED PHLEBOTOMY TECHNICIAN**

APPLICATION DUE MONDAY, JUNE 5

| MTuWThF | June 12-Aug 8 | 8:00-11:00am | $2000 | BC 115 |

The Phlebotomy Technician Program prepares professionals to collect blood specimens from clients for the purpose of laboratory analysis. Students will become familiar with all aspects related to blood collection and develop comprehensive skills to perform venipunctures completely and safely. Program prepares students to take the Certified Phlebotomy Technician (CPT) Exam.

Program provides 93 hours of classroom and laboratory instruction.

Visit BC website for fee assistance info, admissions info, and application. Apply early to secure fee assistance and acceptance into the program!

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**COMMERCIAL DRIVER LICENSE**

APPLICATION DUE WEDNESDAY, AUGUST 23

| MTuWThF | Aug 28-Sep 15 | 8:00am-5:00pm | $4800 | BC 115 |

This program teaches students basic truck driving skills, introducing students to the field of heavy-duty trucking. Safety is emphasized as well as equipment knowledge and State and Federal Department of Transportation (DOT) rules and regulations. Curriculum includes CTTS/NSCSI CDL Study Manual. Field training and testing is conducted on a one-to-one basis. Program prepares students for a Montana Type 1 Certification Class A License (inter-state). If student is 18 to 21, student prepares for a Montana Type 2 Certification Class A License (intra-state). No class Monday, September 4.

Program provides 80 hours of classroom instruction at Bitterroot College and 40 hours of driver training. Bitterroot College CDL Program is a member of the National Association of Publicly Funded Truck Driving Schools (NAPFTDS).

Visit BC website for fee assistance info, admissions info, and application. Apply early to secure fee assistance and acceptance into the program!
The Bitterroot FabLab is a community resource that gives you access to the tools, training, and community you'll need to feel comfortable making just about anything! Join us today!

2017 MEMBERSHIP RATES

|$50  | Day Use Pass - 5 visits over 90 days
|$80  | Annual Student/Educator Membership
|$150 | Annual Individual Membership
|$200 | Annual Family Membership - Two adults & up to five children
   |  (children must be living at home and age 18 or under)

VISIT OUR NEW HOME AT BITTERROOT COLLEGE!

Bitterroot College
103 S 9th St, Room 116
Hamilton, MT 58840

Mon-Fri  8am-5pm
406.541-8755
www.umt.edu/bcfablab

The Bitterroot FabLab is a gift of the Rob and Terry Ryan Foundation.
Summer 2017 FabLab Classes

INTRODUCTION TO 3D PRINTING
Sat  June 24  10:00am-2:00pm $40  BC 116
MW June 26 & 28  4:00-6:00pm $40  BC 116
Sat July 15  10:00am-2:00pm $40  BC 116
TuTh July 25 & 27  6:00-8:00pm $40  BC 116

Introduction to the basics of using 3D printers. The class will cover how to run the FabLab’s 3D printers and how to take pre-existing designs and print them. Students will also learn how to modify existing designs and design 3D objects from scratch in programs such as Tinkercad, 123D design, and NetFabb. 4 OPI CEUs available. Instructors: TBA (June classes), John Springer (July classes)

INTRODUCTION TO PERSONAL CNC MILLING
MW June 5-14  1:00-3:00pm $120  BC 116
TuTh June 6-15  6:00-8:00pm $120  BC 116

Explore the basic concepts and procedures required for machining accurate and repeatable objects on a 3 axis CNC milling machine. Students will acquire a generalized understanding of tooling, work holding, common machining operations, and various industry standards. 8 OPI CEUs available. Instructor: Alex Shek

PERSONAL CNC PROGRAMMING & OPERATION
TuWTh June 20-July 18  6:00-8:00pm $350  BC 116

Students will receive instruction and hands-on experience in the programming and operation of the Tormach Personal CNC. Specifics of part programming, tooling, and setup will be explored. Operational procedures required for the given machine tool will also be applied. Completion of this course is required for all members, or future members, wishing to utilize the 3 axis milling machine in an unsupervised capacity. 24 OPI CEUs available. Instructor: Alex Shek
DESKTOP PUBLISHING
MWF July 10-28 4:00-6:00pm $145 BC 116
PagePlus is so versatile it can handle all of your documentation, print design, and digital publishing in one package, whether you need it for business, to promote a club, church or charity, real estate brochures, to produce handouts or to publish a bestseller. You can produce flowing ebooks, for all popular Kindles, iPads, and other models of readers. This course is a beginner’s overview of the basic capabilities of PagePlus. The student will learn the program’s interface and become familiar with the basic PagePlus tools. **Instructor: Bill Van Antwerp**

DRONES: INTRO TO AMAZING SKY ROBOTS!
Sat July 8 10:00am-2:00pm $40 BC 116
A wide variety of drones will be flown and tested by students. Laws and regulations concerning registration and use of drones will be analyzed. The camera applications of the drones will be covered thoroughly and will involve everything including GoPro’s live feed cameras designed for use with goggles to put students in the pilot seat. Examples of real-world real estate marketing will be explored. Agricultural mapping, competitive racing, and cinematography trade applications will be presented. **Instructor: John Springer**

INTRO TO DIGITAL DRAFTING USING AUTOCAD
MWF July 31-Aug 18 4:00-6:00pm $130 BC 116
If you can imagine it, you can draw it with AutoCad. There are no limits to size, complexity, or accuracy in developing a digital creation in AutoCad. You can develop your creation in actual size, without the need for scaling. The object of the class is to learn how to draw objects in 3rd Angle Orthographic Projection, Top View, Front View, and Right Side View using AutoCad 2017. **Instructor: Bill Van Antwerp**
INTRODUCTION TO LASER ENGRAVING
TuTh June 20 & 22 4:00-5:30pm $40 BC 116
TuTh July 18 & 20 4:00-5:30pm $40 BC 116
A beginner’s introduction to using the Bitterrot FabLab’s laser engraver using freeware image processing methods to achieve a usable etch into various materials. Instructor: Ed Adams

PYTHON WITH THE RASPBERRY PI
TuTh June 13 & 15 4:00-6:00pm $30 BC 103
TuTh July 11 & 13 4:00-6:00pm $30 BC 103
This class is intended for individuals who wish to understand computer fundamentals and programming techniques. It contains introductory material on computer architecture and programming. Python is an object-oriented computer language that is both powerful and easy to understand. The class will cover a general introduction to computer architecture and Python as well as lab exercises in which students construct simple electronic circuits that are controlled by a Raspberry Pi microcomputer programmed in Python. Instructor: Thomas Engelmann

Training & Project Consultation
Individualized training and one-on-one project consultation are available on 3D printers, CNC machine, Laser Engraver, and Wire Bender!

$50/HOUR, CALL 406.541-8755 TO SCHEDULE!
**Spring 2017 College Course Schedule**

Fall classes start **August 31, 2017**. Visit umt.edu/bc or call 406.375-0100 for information on admissions and registration.

<table>
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<th>Department</th>
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<td>ARTZ 105A</td>
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<td>Visual Language - Drawing</td>
<td>3cr</td>
<td>Tu</td>
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<td><strong>BIOLOGY - HUMAN (BIOH)</strong></td>
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<td>BIOH 108</td>
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<td>Basic Anatomy</td>
<td>4cr</td>
<td>MW</td>
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<td>BIOH 201N</td>
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<td>Anatomy &amp; Phys - Lecture</td>
<td>4cr</td>
<td>MWF</td>
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<td>BIOH 202N</td>
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<td>Anatomy &amp; Phys - Lab</td>
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<td>Tu</td>
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<td>CAPP 120</td>
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<td>Intro to Computers</td>
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<td>FILM 103L</td>
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<td>Introduction to Film</td>
<td>3cr</td>
<td>TuTh</td>
<td>1-2:50pm</td>
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<tr>
<td>Department</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Time</td>
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<tr>
<td>GEOLOGY (GEO)</td>
<td>GEO 101N</td>
<td>Intro to Phys Geo - Lecture</td>
<td>3</td>
<td>MW 2-3:20pm</td>
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<td>GEO 102N</td>
<td>Intro to Phys Geo - Lab</td>
<td>1</td>
<td>F 2-3:50pm</td>
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<tr>
<td>HISTORY (HSTA)</td>
<td>HSTA 101H/Y</td>
<td>American History I</td>
<td>4</td>
<td>TuTh 3:30-5:20pm</td>
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<tr>
<td>LITERATURE (LIT)</td>
<td>LIT 202L</td>
<td>The Envir Imagination</td>
<td>3</td>
<td>MW 2-3:20pm</td>
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<tr>
<td>MATHEMATICS (M)</td>
<td>M 090</td>
<td>Introductory Algebra</td>
<td>3</td>
<td>MWF 11-11:50am</td>
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<td></td>
<td>M 115</td>
<td>Probability and Linear Math</td>
<td>3</td>
<td>TuTh 1-2:20pm</td>
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<td></td>
<td>M 121</td>
<td>College Algebra</td>
<td>3</td>
<td>TuTh 8:30-9:50am</td>
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<tr>
<td></td>
<td>M 171</td>
<td>Calculus I</td>
<td>4</td>
<td>M-F 4:30-5:20pm</td>
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<tr>
<td>NATIVE AMERICAN STUDIES (NASX)</td>
<td>NASX 105H/X</td>
<td>Intro to Native Am Studies</td>
<td>3</td>
<td>W 10:30am-1:20pm</td>
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<tr>
<td>PHILOSOPHY (PHL)</td>
<td>PHL 112E</td>
<td>Intro to Ethics &amp; Environ.</td>
<td>3</td>
<td>MW 6-7:20pm</td>
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<tr>
<td>POLITICAL SCIENCE (PSCI)</td>
<td>PSCI 151</td>
<td>Intro to Civic Engagement</td>
<td>2</td>
<td>Th 10-11:40am</td>
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<tr>
<td>PSYCHOLOGY (PSYX)</td>
<td>PSYX 100S</td>
<td>Intro to Psychology</td>
<td>3</td>
<td>TuTh 4-5:20pm</td>
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<tr>
<td>SPANISH (SPNS)</td>
<td>SPNS 101</td>
<td>Elementary Spanish I</td>
<td>5</td>
<td>M-F 9-9:50am</td>
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<tr>
<td>STATISTICS (STAT)</td>
<td>STAT 216</td>
<td>Intro to Statistics</td>
<td>4</td>
<td>MW 4-5:50pm</td>
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<tr>
<td>WRITING (WRIT)</td>
<td>WRIT 101</td>
<td>College Writing I</td>
<td>3</td>
<td>TuTh 11-12:20pm</td>
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<td></td>
<td>WRIT 101</td>
<td>College Writing I</td>
<td>3</td>
<td>MW 3:30-4:50pm</td>
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College Course Descriptions

Fall classes start August 31, 2017. Visit umt.edu/bc or call 406.375-0100 for information on admissions and registration.

AASC 101  STUDY & LEARNING STRATEGIES
This course facilitates the development of many skills needed by the student to be competent and successful in higher education. Topics include management of classroom performance, time and money; personal health and safety; listening; memory; critical thinking; reading; note making; ethics; and testing. Elective credit only.

ARTZ 105A  VISUAL LANGUAGE - DRAWING
An introduction to visual language, concepts, and studio practicum. Focus on basic skills development in rendering volume, pictorial depth, and figure/ground relationships. Research in historical and contemporary approaches to drawing.

BIOH 108  BASIC ANATOMY
Structures of the human body and their basic functions.

BIOH 201N  ANATOMY & PHYSIOLOGY I - LECTURE & LAB
Comprehensive knowledge of human form and function necessary for students preparing for health-related professions. Emphasis on structure, function and homeostatic regulation of body systems with presentation of basic concepts in chemistry and microbiology as they relate to human anatomy and physiology. Covers tissues through nervous system. Required integrated laboratory includes some dissection. Prereq., introductory science course or college-prep high school biology course recommended.
**CAPP 120  INTRODUCTION TO COMPUTERS**
Introduction to computer terminology, hardware, and software, including wire/wireless communications and multimedia devices. Students utilize word processing, spread sheet, database, and presentation applications to create projects common to business and industry in a networked computing environment. Internet research, email usage, and keyboarding proficiency are integrated.

**CHMY121N  INTRODUCTION TO GENERAL CHEMISTRY - LECTURE, LAB, & DISCUSSION**
First semester of an introduction to general, inorganic, organic and biological chemistry. A laboratory course emphasizing inorganic chemistry, quantitative relations and synthesis of inorganic and organic compounds.

**COMX 111A  INTRODUCTION TO PUBLIC SPEAKING**
Introduction to techniques for preparing and delivering effective presentations as well as constructive criticism.

**FILM 103A  INTRODUCTION TO FILM**
The history and development of the film medium. Emphasis on critical analysis of selected classic or significant films.

**GEO 101N  INTRODUCTION TO PHYSICAL GEOLOGY - LECTURE**
General geology including the work of wind, flowing water, glacial ice, gravity, earthquakes, volcanoes and plate tectonics in shaping the earth.

**GEO 102N  INTRODUCTION TO PHYSICAL GEOLOGY - LAB**
A series of laboratory and field experiences designed around basic geologic processes and materials. Familiarization with common minerals, rocks, land forms, and structures.

**HSTA 101H/Y  AMERICAN HISTORY I**
A comprehensive introductory history of Colonial, Revolutionary and 19th century America, to 1877.
LIT 202L  THE ENVIRONMENTAL IMAGINATION
Course is designed to introduce students to the many discourses of nature. In this course we will approach “natural history” as a complex literary genre grounded in personal experience of the “more-than-human” world (in David Abram’s now ubiquitous phrase).

M 090  INTRODUCTORY ALGEBRA
Review of arithmetic principles of integers and rational numbers, linear equations in one or two unknowns, and operations with polynomials and rational expressions. Credit does not count toward an Associate of Arts, Associate of Applied Science, or Baccalaureate degree.

M 115  PROBABILITY AND LINEAR MATH
Systems of linear equations and matrix algebra. Introduction to probability with emphasis on models and probabilistic reasoning. Examples of applications of the material in many fields. Prereq., M 090 with a grade of B- or better, M 095, or appropriate placement score.

M 121  COLLEGE ALGEBRA
Intended to strengthen algebra skills. The study of functions and their inverses: polynomial, rational, exponential, and logarithmic functions. Prereq., M 095 or appropriate placement score.

M 171  CALCULUS I
Differential calculus, including limits, continuous functions, Intermediate Value Theorem, tangents, linear approximation, inverse functions, implicit differentiation, extreme values and the Mean Value Theorem. Integral Calculus including antiderivatives, definite integrals, and the Fundamental Theorem of Calculus. Prereq., M 122 or 151 (MATH 112 or 121) or ALEKS placement >= 5.

NASX 105H/X  INTRO TO NATIVE AMERICAN STUDIES
Survey course to acquaint the student with Native American Studies by a general overview of Indian history, culture, philosophy, religious beliefs and contemporary issues.
**PHL 112E  INTRODUCTION TO ETHICS AND THE ENVIRONMENT**

An introductory-level ethics course with a special interest in the natural environment. The course will (a) introduce students to the three classical traditions in ethics - virtue, Kantianism, and utilitarianism, (b) ground these theories in questions about the moral status of non-humans and our moral duties to non-humans, (c) include an applied section of the course that will cover animal welfare, biotechnology, and other current topics.

**PSCI 151  INTRODUCTION TO CIVIC ENGAGEMENT**

Course provides students with a structured volunteer experience in social service/community organizations. Opportunity engages students in active citizenship through community service. Emphasis is on student participation and the development of citizenship skills such as problem solving, critical thinking, writing, and public speaking. Topics addressed are citizenship in a democratic society, community action, organizational goals, client groups served, and services provided.

**PSYX 100S  INTRODUCTION TO PSYCHOLOGY**

Introduction to the scientific study of behavior in humans and other animals. Accepted as a substitute for UM-COT degrees requiring PSYX 161S Fundamentals of Organizational Psychology.

**SPNS 101  ELEMENTARY SPANISH I**

Emphasis on oral communication, with development in all major skill areas: listening, speaking, reading and writing.

**STAT 216  INTRODUCTION TO STATISTICS**

Introduction to major ideas of statistical inference. Emphasis is on statistical reasoning and uses of statistics. Prereq., M 115 or consent of instructor.

**WRIT 101  COLLEGE WRITING I**

Instruction and practice in both the expository writing and research process. Emphasis on the use of specific techniques of writing to develop style, unity, clarity, and force of ideas, and structure. Students are expected to write without major errors in sentence structure or mechanics. Prereq., WRIT 095 or passing score on placement test.