WHAT ARE YOU DOING THIS SUMMER?
Summer in Montana is a time for hanging out with friends, enjoying nature, learning something exciting outside of the classroom, AND going to a GEAR UP summer camp!

Choose from eight different camps that will help you grow and learn, experience college life, make new friends, and have fun all at the same time!

2018 State Academic SUMMER CAMPS
GEARing UP for College

DAWSON COMMUNITY COLLEGE
June 10–16 | Glendive | 7th–12th

About the Camp
This camp offers a sneak-peek at college life by covering all of the events and experiences of a college semester in a week! You will role play a college student by registering for classes, working on campus, attending classes and labs, using the recreation facilities, going on fun field trips, taking finals, and participating in your own commencement ceremony.

You will love the great activities on and off the campus. High school and middle school students will have their own coursework track with the new high school program offering a career track curriculum including but not limited to: welding, law enforcement, agriculture, and music technology.

This is a residential camp for GEAR UP students entering the 7th–12th grades during fall 2018.

Key Camp Activities
- Attend classes in ag-science, art, business, education, history/Native American studies, mathematics, music technology, and theatre
- Go to workshops on life-long physical activities and service learning
- Take an educational off-campus excursion
- Learn about dinosaurs, rock formation, and more at Makoshika State Park
- Enjoy hiking, foosball, pool, softball, volleyball, zumba,olf, and basketball
- Commencement ceremony and graduation celebration

About the Host College
Dawson Community College is a comprehensive community college committed to a quality education for its students. Small and personal, the college offers two-year degree programs and one-year certificates. In addition to academics, the college offers basketball, softball, rodeo, volleyball, and a variety of intramural sports activities and clubs. Dawson Community College invites you to come and Discover your world in excellent academic programs, Connect with others through campus and community activities, and Contribute to a relevant educational and lifelong learning experience.
About the Camp

Students will learn concepts of science and engineering by performing hands on research with trained Montana Tech faculty and graduate students. They will learn concepts of math, engineering, physics, water chemistry and computer applications when programing raspberry pi computers, sampling water from the Big Hole River, and constructing rockets in a state-of-the-art laboratory at Montana Tech. The participants will not only learn practical applications of science and engineering, they will gain self-esteem and confidence while experiencing the social realities of living on a college campus. The camp includes time to glean accurate information about careers in engineering, material science, computer science, and biology and quality experiences that teach students how to balance work and play for a healthy lifestyle.

This is a residential camp for GEAR UP students entering the 9th-12th grades in the fall of 2018.

Key Camp Activities

Fellows in Research Academy offers the students a chance to develop both their academic and social skills. Specifically, students will
• learn the coding required to program a Raspberry Pi computer;
• have the opportunity to identify and solve real-world problems with their Raspberry Pi program;
• learn proper methods of sampling water to understand the environmental impacts of upstream mining on river ecosystems;
• learn concepts of physics in relation to the flight of rockets and then requirements of rocket ignition;
• build their own rockets, formulate their own rocket fuel mix and then have the opportunity to test their designs;
• learn how to gather data from the research they have conducted and present the data in a formal setting;
• design presentation boards and be coached through the oral presentation process;
• attend a presentation by Montana Tech’s TRIO Programs that will explain the college process from a plan in high school to prepare for college to completing a college application to financial aid and everything in between;
• learn the computer technologies of Microsoft Excel spreadsheets to generate graphs and do calculations and Microsoft PowerPoint for giving presentations;
• learn about career opportunities available in computer science, engineering and chemistry;
• connect the relevance of their current academics to their future education and employment goals;
• learn about standard laboratory use and laboratory safety; and
• learn standard scientific recording practices such as labeling and journaling.

About the Host Institution

Montana Tech is a public university located in Butte, Montana. Founded in 1900 as the Montana State School of Mines, the institution’s funding and land came from the Enabling Act of 1889, which admitted Montana to the Union and allocated 100,000 acres of public land to establish a state school of mines. The School of Mines opened its doors with only one building, Main Hall, holding 21 students. The School of Mines offered only two degrees: mining engineering and electrical engineering. Today, Montana Tech has nearly 3,000 students, 13 campus buildings and offers 73 undergraduate degrees along with 18 minors, 14 certification degrees, and 10 pre-professional career programs. Montana Tech also offers 21 graduate degrees and a Ph.D. in Materials Science.
About the Camp
MSU Explore: Earth and Space Science Camp (ESS) is a free five-day summer camp program sponsored NASA and Montana State—Academic Technology and Outreach. This program is designed to encourage middle school students to learn more about science, technology, engineering and math, as well as experience a taste of college life. This is a residential camp for GEAR UP students entering the 7th and 8th grades in the fall of 2018.

Key Camp Activities
Students live in the MSU residence halls and choose three classes to attend all week. Examples of past classes include Survival Science, Microscope Biology, Extreme Gravity and Black Holes, Rockets in the Rockies and others. Workshop activities will range from shooting off rockets, taking a virtual research trip to Yellowstone, creating a survival kit and a whole lot more. Afternoon and evening activities will include swimming, sports, a movie, a trip to the Museum of the Rockies, and social events.

About the Host Institution
Montana State University is a public university and its primary campus is located in Bozeman. Founded in 1893, MSU offers undergraduate degrees in 51 fields, master’s degrees in 41 fields, and doctoral degrees in 18 fields. Created as a land-grant institution, MSU is a welcoming, adventurous community of students, faculty, and staff distinguished by its commitment to address the world’s greatest challenges. The university energizes individuals to discover and pursue their aspirations.

Registration Information
The registration process for the Earth and Space Science Camp is different than for the other GEAR UP summer camps listed in this booklet.

Students must complete an application and have two (2) adult references. Applications will be available from schools or online at ato.montana.edu/explore starting Monday, April 9. Applications and references must be received by Friday, April 27, 2018. Accepted students will be mailed a confirmation letter, workshop choices, registration and other important forms in the mail (USPS) on Monday, May 7, 2018. Accepted students will need to submit workshop choices and all other important forms by Friday, May 18. Workshop choices will be assigned as first come, first served.
Preserving the Planet

CARROLL COLLEGE
June 24–30 | Helena | 7th and 8th

About the Camp
Carroll’s Preserving the Planet camp demonstrates that the college experience extends far beyond classrooms and “book learning.” You will use the environment as a foundation to explore a range of subjects including mathematics, science, engineering, composition, poetry, photography, history, and the arts. The camp will focus on the preservation of the world and its cultures through an investigation of indigenous societies in Montana and throughout the world and the conservation of the environment.

This is a residential camp for GEAR UP students entering the 7th or 8th grades in the fall of 2018.

Key Camp Activities
- A field trip to Exploration Works
- Projects include: learning about sustainable building and engineering water filters in the developing world
- Evening activities include movies such as Planet Earth and star-gazing through Carroll’s observatory
- Exploring Montana’s past at the Montana Historical Society
- Participating in traditional Native American Games, riding the Tour Train, and touring Montana Wild
- A private Pow-Wow
- Observation of local flora and fauna on a hike up Mount Helena
- Amphibian surveying at Park Lake
- Pine bark beetle activity on Mount Helena

About the Host College
Students who choose Carroll College find a community that supports them as they follow their dreams, change themselves, and change the world. Carroll’s unique approach includes an education that not only prepares students to pass their courses and enter the careers of their choices but also to succeed in all arenas of life—personal, professional, intellectual, and spiritual. To create this novel educational experience, Carroll emphasizes that learning occurs in every environment to which we are exposed, not just in the classroom.
Montana Apprenticeship Program

MONTANA STATE UNIVERSITY–BOZEMAN
June 24–July 21 | Bozeman | 11th–12th

About the Camp
The Montana Apprenticeship Program (MAP) is a four-week college preparatory and science, technology, engineering, math (STEM) focused program for students who will enter their junior and senior years of high school in fall 2018. MAP gives students their first taste of college life. Participants will take academic classes, including Math and Writing, gain exposure to science and engineering research laboratories, and learn success skills for college. MAP applicants should have a strong interest in pursuing a four-year college degree and in STEM activities and careers.

This is a residential camp for GEAR UP students entering the 11th–12th grades in the fall of 2018.

Key Camp Activities
MAP students build their academic skills and prepare for college through daily coursework and hands-on activities in math, writing, science, and study skills. The 2018 program may also provide activities in computer coding. In addition, students will experience life on a college campus, meet successful college STEM students, and explore science and engineering research and careers. Weekend/evening activities may include hiking, sports, visits to state and national parks, movies, and social and cultural events in southwest Montana. Students live in an MSU dormitory and all meals are provided. Students who successfully complete the program also receive a stipend of $800.

About the Host Institution
Montana State University is a public university and its primary campus is located in Bozeman. Founded in 1893, MSU offers undergraduate degrees in 51 fields, master’s degrees in 41 fields, and doctoral degrees in 18 fields. Created as a land-grant institution, MSU is a welcoming, adventurous community of students, faculty, and staff distinguished by its commitment to address the world’s greatest challenges. The university energizes individuals to discover and pursue their aspirations.

Registration Information
The registration process for the MAP camp is different than for other GEAR UP summer camps listed in this booklet. Students should complete an application which is available at www.montana.edu/empower/map.html. Students must also provide two (2) letters of recommendation from a high school teacher, guidance counselor, advisor, etc. The letters should be submitted to MAP separately by the students’ reference/recommender. Application deadline is April 4, 2018. For questions, contact the Montana Apprenticeship Program at (406) 994-5567.
Yellowstone

ECOLOGY PROJECT INTERNATIONAL
June 27–July 1 | Yellowstone National Park area | 8th–12th

About the Camp
Join Ecology Project International for five days of hands-on wildlife research, scientific process-based exploration, and service projects in the Greater Yellowstone Ecosystem. During this course you will directly impact wildlife management in the world’s first national park, Yellowstone!

This is a residential camp for GEAR UP students entering the 8th–12th grades in the fall of 2018.

Key Camp Activities
• Camp in tents adjacent to Yellowstone National Park
• Collect research data alongside Yellowstone wildlife biologists
• Improve pronghorn antelope migration opportunities by modifying fences
• Observe Yellowstone wildlife—wolves, bison, bears, and more
• Montana State University tour
• Leadership and team building activities

About the Host Organization
Ecology Project International (EPI) is a Missoula, Montana-based non-profit organization whose mission is to improve and inspire science education and conservation efforts worldwide through field-based student-science partnerships. Since 2000, EPI has engaged more than 30,000 teens and teachers from Latin America and the United States in conservation service and environmental education field courses in Belize, Costa Rica, Ecuador, Hawaii, Mexico, and Yellowstone National Park. Learn more at epiyellowstone.org.

Registration Information
The registration process for the Ecology Project International camp is different than the other GEAR UP summer camps listed in this booklet. Register for this camp through the Ecology Project International website at www.ecologyproject.org/enroll. The registration deadline for this camp is April 13, 2018, but interested students are strongly encouraged to enroll by April 1.
About the Camp
Join Project ASCENT for a four-day base-camp experience on the pristine Bull River designed to expand campers' knowledge of area-specific recreational opportunities and instill a sense of stewardship for our local wilderness areas. Meet local wilderness professionals and learn what they do to study, preserve, and protect our natural areas and wildlife. Throughout the experience, campers will have opportunities to participate in a variety of local recreational opportunities!

This is a residential camp for GEAR UP students entering the 7th–11th grades during fall 2018.

Key Camp Activities
• Set up tents at our base camp on the beautiful Bull River
• Take day hikes to a mountain lake, Ross Creek Cedars, and Kootenai Falls
• Learn a variety of wilderness safety and first aid skills
• Meet local professionals and learn about wilderness and recreational careers
• Learn fishing and kayaking skills
• Take part in fish tracking and learn how our biologists study our local wildlife
• Expand your knowledge about Montana's riparian and old growth ecosystems

About the Host Organization
Project ASCENT is a 501(c)(3) non-profit corporation based in Thompson Falls, MT, offering outdoor education, recreation, and service learning opportunities to a variety of ages in Montana. We have an amazing professional team with an expansive collective knowledge base and skill set in outdoor and recreational education. Project ASCENT works to advance personal responsibility, character development, health and well-being, civic engagement, leadership development, and stewardship through adventure-based experiential education.
GEAR UP with the Glacier Institute

THE GLACIER INSTITUTE
July 30–August 3 | Glacier National Park | 7th–10th

About the Camp
GEAR UP With the Glacier Institute is a camp opportunity for hands-on, field based outdoor education. You will get to explore the Crown of the Continent’s ecosystem studying: streams, plant and animal species, fire ecology, and the endangered bull trout.

This is a residential camp for GEAR UP students entering grades 7th–10th in the fall of 2018.

Key Camp Activities
• Camp in cabins at the Crown of the Continent in Glacier National Park
• Day hikes
• Scientific investigations
• Leadership and team building activities
• Mentorship and career exploration
• Survival skills

About the Host Institution
Since 1983, the Glacier Institute, a private nonprofit, has served adults and children as an educational leader in the Crown of the Continent ecosystem with Glacier National Park and Flathead National Forest as its center. Emphasizing outreach and field-based learning experiences, the Institute provides an objective and science-based understanding of the area’s ecology and its interaction with people. Through this non-advocacy approach to outdoor education, participants can be better prepared to make informed and constructive decisions which impact this and other ecosystems. Learn more at www.glacierinstitute.org.
How do I sign up for camp?

- There is no charge for attending! Discuss the information in this brochure with your parent/guardian and with your GEAR UP school liaison. Decide which camp theme, location, and dates work best for you.
- Complete the on-line GEAR UP Summer Camp application form indicating your 1st, 2nd, and 3rd choices by going to www.surveymonkey.com/r/GEARUPCAMP18 or visit mus.edu/gearup/ and click the "Register for a 2018 Montana GEAR UP State Summer Camp" link.
- You’ll be notified in early May about your camp assignment.

How do I get to camp and what should I bring?

- If you are selected for a camp, you will be notified of the transportation arrangements and the specific items you will need to bring.
- You and your parents will also need to sign and return some forms or you may forfeit your place at the camp.

Montana GEAR UP is a federal grant program working with students, teachers, and parents at 18 Montana middle and high schools. We believe that postsecondary education is possible for all Montana students, regardless of economic background. Montana GEAR UP provides funding to schools for activities such as tutoring, college visits, and summer camps, as well as funding for college application fees and ACT testing for juniors.

Summer camps are a great way for students to begin to see themselves as future college students!

For more information contact:
Your school’s GEAR UP liaison or Jamie Jones, College Access Manager, 406-449-9142 or jjones@montana.edu.