South Dakota School of Mines and Technology

Real Learning        Real Fun        Real Life
Accreditation

South Dakota Tech is accredited by the North Central Association of Colleges and Secondary Schools, the recognized accrediting agency for the north central states. In addition, the curriculum in Chemistry is accredited by the American Chemical Society and the Computer Science program is accredited by the Computing Sciences Accreditation Board (CSAB). The Accreditation Board for Engineering and Technology (ABET), which is the recognized accrediting agency for engineering, has also accredited all the undergraduate curricula for all Tech engineering programs.

Recognitions

South Dakota Tech:

• Won the Boeing Educator of the Year Award. The award recognized Tech’s innovative approach to engineering education.

• Is listed in America’s 100 Best College Buys.*

• Has been recognized as one of Barron’s 300 “Best Buys in College Education.”

• Has been singled out by Kaplan Newsweek College Catalog as a top school for the academically competitive student.

*Institutional Research and Evaluation, Inc.
Rapid City is the second largest city in South Dakota, with a population of more than 60,000. It is small enough to find your way around easily, yet large enough to provide plenty of entertainment and part-time job opportunities. Ask people why they live in Rapid City, and you’ll hear the answer, “the Black Hills,” a bunch of times. Why? The Black Hills is a special place, an oasis of mountains on the prairie that serve as a recreational paradise and a million-acre laboratory for your studies. Find a special nook in the Hills as your special study place. Whatever you want to do, the Hills are here.
The BLACK HILLS offers a great learning environment...

South Dakota Tech is a small campus that offers quality teaching and cutting edge research in the sciences and engineering. Tech is a place where students and teachers can explore science and engineering together in challenging and creative environments.”

Dr. Kerri Vierling
Assistant Professor, Biology

What’s the weather like?

People who study these things use the phrase “Banana Belt” when describing Black Hills weather. It’s hot, dry, and breezy in the summer, and relatively mild in the winter, especially when you compare the Hills to other parts of the Midwest.

The average high temperature in July is 86 degrees, and it’s rare not to see the sun every day. Afternoon thunderstorms are common and can impress with their power and speed.

In the winter, an occasional storm will dump piles of snow on Rapid City, but temperatures commonly hover above the freezing mark and keep the snow from sticking around too long. That’s not the case in the Hills’ skiing areas, where snow typically comes often and hangs around.
Wow, there’s a lot to do in the Black Hills!

Blast along the hundreds of miles of snowmobile trails, rip down finely groomed ski slopes, make your legs burn on a biking trail, or pass away a day lounging and watching the buffalo in Custer State Park. **Whatever you do, one thing’s for sure...**

You’ll be hooked!

These mountains have value beyond gold. For many people, from past and present Native Americans to today’s visitors, the Black Hills have been a special place for physical and spiritual renewal. Paha Sapa. Lakota Sioux for “hills that are black.” But that’s the surface translation. The deeper translation is “the heart of everything that is.”
The Center of Excellence for Advanced Manufacturing and Production (CAMP) provides the best design and manufacturing education to Tech students. CAMP integrates students, faculty, and industry partners into a center whose purpose is to develop a unique approach to manufacturing education that simultaneously addresses explicit needs of industry. CAMP also is creating an electronic community using the Internet to facilitate interaction between higher education and industry. In addition, the Center has a focus for manufacturing technology assistance to private industry.

“CAMP is an exciting program that will help companies solve design and manufacturing problems through the use of enterprise teams....

“CAMP is a cool way to get involved with projects like the Solar Car, Mini-Indy, Concrete Canoe, and others that you would never think of joining.”

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Jon Bogott
Computer Engineering
Bloomington, MN

We compete nationally...

CAMP is a cool way to get involved with projects like the Solar Car, Mini-Indy, Concrete Canoe, and others that you would never think of joining.”
If you chose B...

**South Dakota Tech is the place for you.** Tech is unique because it offers undergraduate students the opportunity to participate in research projects that solve real problems. Students research solutions to problems of industry, government, and the military. Professors will work with you to guide the research and to make sure your experience is as fulfilling as possible. Your research experiences will take place in state-of-the-art laboratories on campus and in the million-acre outdoor laboratories that are the Black Hills National Forest, Badlands National Park, and Custer State Park. These experiences not only make learning more real, they will give you the experiences that impress potential employers and make you the best engineer or scientist you can be.
If you like working outside and working to solve important and complex issues that the Earth faces, consider a major in the College of Earth Systems. You can study environmental issues and engineer solutions. You can learn to build bridges, roads, and buildings. You can study dinosaurs and travel to newly discovered fossil beds and help extract long-extinct creatures. You can combine your classroom studies with real research and work alongside professors who care about helping you learn the skills you need.
I chose South Dakota Tech because I thought it offered me the best chance of helping me reach my goals. After two years, my thoughts were right on. This is a great school. It’s small. The people are great. There’s all kinds of stuff to do. And, most importantly, I’m learning the things I want to know. I did consider bigger schools, but I chose Tech because it has a great reputation, and there’s no better place to study engineering and science for the cost.”

“\textit{I’m on my way to becoming a civil engineer...}”

**Jennie Wentz**  
Civil Engineering  
Lemmon, SD

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**majors**

Civil Engineering  
Geological Engineering  
Geology  
Environmental Engineering  
(interdisciplinary program)

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**minors**

Atmospheric Sciences  
Geology

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**careers**

Civil Engineer  
Environmental Engineer  
Geologist  
Meteorologist  
Structural Engineer  
Water Quality Engineer
The College of Interdisciplinary Studies administers one degree — Interdisciplinary Sciences. This is the degree for you if you know you’re interested in science, math, or engineering but want to play the field and dabble in several different areas. The College allows you to tailor a course of study that leads you toward the career you want. Your advisor and faculty will help you choose the best courses to help you achieve your dreams.
An IS degree is great to have, especially if you plan to further your education. I plan to be a registered nurse after I graduate, and it will be nice to have taken all my science courses at one of the best schools in America. Tech is small enough so you can meet a lot of people, make a lot of friends, and see them a lot, but it’s big enough so you never run out of things to do or people to meet. It’s perfect!”

Tech is a really great place!

Mandy Hanley
Interdisciplinary Sciences
Rapid City, SD

major

Interdisciplinary Sciences

careers

Doctor
Environmental Scientist
Lawyer
Medical Technician
Nurse
Personnel Manager
Public Relations Specialist
Social Worker
Graduates with degrees from the College of Materials Engineering and Science design new pharmaceuticals, find ways to recycle plastic, develop clean energy, engineer aircraft parts, create better computer chips and rocket engines, and study how the universe works. You will learn with the best equipment and laboratories filled with cutting-edge technology. The majors in this college offer challenging and rewarding opportunities to understand, synthesize, and produce new materials for a highly technological world.
I chose Tech because of its excellent reputation and challenging classes. There’s no doubt that you can get an incredible education for a low cost. I’m involved with Student Ambassadors, Ski and Snowboard Club, the Student Alumni Connection, and I will be an Orientation Leader this summer. It’s a close-knit campus and the professors are always available.”

Katie Begeman
Chemical Engineering
Rapid City, SD

“Tech has many opportunities that set it apart as a premier university...”

majors
Chemical Engineering
Chemistry
Metallurgical Engineering
Physics

careers
Aerospace Engineer
Chemical Sales
Industrial Research and Development Plant Engineer
Medical Equipment Researcher
Solid State Physicist
the facts

You know this — the world is becoming more complex. We need solutions to problems that cross traditional boundaries between science and engineering. The College of Systems Engineering uses that approach with its majors, bringing people together from a variety of technical backgrounds. Computer engineers and scientists focus on designing electrical and mechanical systems. Industrial engineers focus on integrating people, material, and equipment. Mathematicians provide expertise in the underlying mathematical principles that all these disciplines are based on. If you’re interested in a career in any of these fields, your future probably will include working with people from other areas of expertise. You’ll find the technical knowledge you need and the ability to work with others with any degree from the College of Systems Engineering.
"I made up my mind to attend Tech during my campus visit...

I have several family members who graduated from Tech, and since they all highly recommended it, it was always on my short list of colleges. The professors I met with seemed to take genuine interest in me while I was here. That made a huge impression on me that they would take time out of their busy schedules for me. Tech is small and specialized, and that allows us to get more attention from professors. Tech also challenges us, giving us an advantage after graduation. After I graduate, I think I’ll remember most the people I’ve met here, especially the great friends I’ve gained during my time in the residence halls.”

Dan Rausch
Computer Science and Math
Big Stone City, SD

majors

Computer Engineering
Computer Science
Electrical Engineering
Industrial Engineering
Mathematics
Mechanical Engineering

minors

Computer Science
Mathematics

careers

Computer System Designer
Manufacturing Supervisor
Power Engineer
Robotics Engineer
Software Designer
Statistician
Your adventure begins here!

GPS coordinates
N44.04.570
W103.12.423
Tech is a member of the DAC-10 and is associated with the National Association of Intercollegiate Athletics (NAIA). The women’s basketball team has a long tradition of excellence. The team represented South Dakota Tech in the NAIA National Tournament in eight of the past nine years, and advanced to the Final Four in the 1998 and 1999 tournaments.

“I was impressed with the outstanding academics and the tradition and talent of the Lady Hardrocker basketball team.”

Miaken Zeigler
Environmental Engineering
Sturgis, SD

The facts
O’Harra Stadium is one of the most unusual athletic fields in the region. Parking terraces were constructed to accommodate approximately three hundred automobiles from which spectators may view the field. The stadium was renovated in 1994. The playing field is encircled by an Olympic quality running track, renovated in 2002.

“Major corporations look for graduates who have had involvement in football.”

Darren Soucy
Head Football Coach
Career Planning

South Dakota Tech students who graduated during the 2003-2004 school year averaged starting salary offers of more than $47,000. That shows employers are looking for students with the kinds of skills Tech graduates have. Tech’s 16 undergraduate degrees in engineering, science and interdisciplinary studies emphasize advanced science and math, and all combine classroom instruction with hands-on laboratory work. In addition, more than 80 percent of Tech graduates have relevant work experience through co-ops and internships, and that increases their marketability to employers.

Internships and Co-ops

When you begin your career, the interviewer is bound to say, “Tell me about your experience.” It’s much better to rattle off a list of real-world accomplishments than to stare blankly, wishing you’d taken that summer internship. South Dakota Tech knows the value of internships, and the Office of Career Planning, Placement, and Cooperative Education exists to help you develop your skills and experiences. The Career Planning staff will help you find opportunities, post your resume online, schedule on-campus interviews, host job fairs, and coach you for interviews. Visit www.hpcnet.org/sdsmt/careerplanning to learn about all Career Planning services.
Major Avg. 2003-2004 Salary Offer
Chemical Engineering $51,889
Chemistry $34,750
Civil Engineering $41,915
Computer Engineering $53,591
Computer Science $53,077
Electrical Engineering $51,409
Environmental Engineering $41,615
Geology *
Geological Engineering $41,896
Industrial Engineering $45,315
Interdisciplinary Sciences *
Math *
Mechanical Engineering $44,916
Metallurgical Engineering $46,100
Mining Engineering $46,267
Physics *
All Engineering $46,266
All Science $50,459
Avg. Overall $47,061

* Pursuing graduate school or no salary offers reported
(The above averages are based on salary offers reported as of August 6, 2004)
The Tech Bookstore is located in the Surbeck Center. Tech Bookstore serves the students, staff and faculty of Tech. The Bookstore carries textbooks, office supplies, Tech clothing, computer software, and many other items. In addition, the Bookstore cashes personal checks, sends and receives personal faxes, and will special-order books and software. Shop the Tech Bookstore online at www.sdsmtbookstore.com.

Devereaux Library

The Devereaux Library’s collection includes thousands of books, hundreds of scholarly journals and electronic databases, and popular magazines, newspapers, and bestsellers, as well as current videotapes, DVDs, and CDs. The Devereaux Library also provides access to a wide variety of resources on the Internet. It also is the state’s Patent and Trademark Depository Library and the region’s largest Federal Government Documents Depository Library. The library staff provides reference assistance and a variety of classes that teach users to get the most from the library.

Computer Labs

You want computers? We got computers. Every building has at least one computer lab, and some are open 24 hours a day. That makes being a night-owl perfectly acceptable, as long as you get up for that 8 a.m. class. You can use the labs for research, to write papers, or any other use, including gaming, although gamers must give up their spot if someone needs the computer for academic reasons. Tech is a wireless campus, so you don’t need to sit in a computer lab. Use your laptop and connect to the network while relaxing on the campus Quad. The accessibility to computers will give you the experience you need — on multiple platforms, if you want — so you’re comfortable and prepared for whatever challenges are ahead.

Go Wireless!
Breanne Vottero
Chemical Engineering
Rapid City, SD

“...but the small size of this school is very refreshing and makes a close, personal
campus and gives more individualized attention in the classrooms. I chose Tech
because of its excellent reputation that I had found with speaking to many
successful alumni. I also enjoyed math and science and believed that Tech is an
excellent deal as far as quality of education for the price. The location and the
small, friendly campus also were important factors. Being involved in
organizations that you enjoy and meeting people
are also a large part of the college experience and
learning process.”

Carolyn Brich
Secretary
Electrical and Computer Engineering Department

The Tech vision is to help each
student realize their potential...

Thomas Edison is quoted as saying, “If we all did the things we are
really capable of doing, we would literally astound ourselves…” When
our students arrive on our campus initially, they have a dream, an idea
of what they would like to achieve and become. By choosing Tech, they
have accepted the challenge to make those dreams and ideas reality.
Each staff member has a unique role within the Tech Family, but
everyone shares a common vision.”

Counseling and ADA Services

Professional counseling services and ADA (Americans with Disabilities Act)
services are available to all South Dakota Tech students. Individual, group, and
couples counseling as well as wellness programming is available. All services are
confidential. Call (605) 394-1924 for information.

“...Tech faculty
really care...

Tech has an excellent reputation and there’s
plenty to do. You’ll find a place here, and
you’ll want the experience to remain with you
forever. I recommend that anyone interested
in Tech come and visit and see everything
that the university has to offer.”

Miles Wickersham
Mechanical Engineering
and Electrical Engineering
Harrison, NE

Learning Center

Tutoring in all the core subjects – math,
chemistry, physics, computer science,
English, and more – is provided by peer
tutors and is free to all Tech students through
the Tech Learning Center, or TLC. The TLC
also has computers, a television/VCR,
textbooks, and other study aids available for
student use.

“I used to think that going to a large
university was important...

but the small size of this school is very refreshing and makes a close, personal
campus and gives more individualized attention in the classrooms. I chose Tech
because of its excellent reputation that I had found with speaking to many
successful alumni. I also enjoyed math and science and believed that Tech is an
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learning process.”

Breanne Vottero
Chemical Engineering
Rapid City, SD
The Surbeck Center serves as the focal point for student activities on campus. The new addition is designed to enhance the campus experience for students. The renovations include the new 300-bed Howard Peterson Hall adjacent to the south end of the Surbeck Center. Room configurations feature suites and standard double rooms. A kitchen, exercise room, and study lounges will help you stay healthy and wise.

Not even a college student can live by pizza alone. That’s why South Dakota Tech offers a wide selection of tasty, and yes, healthy, food every day. In the Hardrocker Dining Hall, you’ll find a variety of fresh foods, prepared from scratch every day. Many selections are prepared right before your eyes — only moments before serving. Daily features include traditional homestyle meals, fresh-cooked pastas, and simmering sauces. You can also enjoy hot and hearty traditional and vegetarian soups, bisques and chowders, a fully loaded salad bar, a make-to-order grill. There is, of course, a variety of desserts to choose from each day.

If you’re looking for a quick bite to eat, the Miner’s Shack Snack Bar features hamburgers, chicken sandwiches, deli sandwiches, made-to-order pizza, Java City gourmet coffee, and much more. And if you gotta have a pizza, the Miner’s Shack will deliver one right to your dorm room.
FIRST (Freshman Introduction to Real Success at Tech) is a new program at Tech. Nationally, programs that integrate academics with residence hall neighborhoods show great success. Students who participate in these programs stay in college, get better grades, and graduate sooner. We encourage you to be FIRST at Tech.

To be FIRST, just fill out your residence hall application and check the FIRST box. You will then be:

- **FIRST** to live in a neighborhood of the new residence hall at Tech (and the only first year students in the new hall).
- **FIRST** to attend the summer orientation sessions.
- **FIRST** to register for classes (of first year students).
- **FIRST** to move into the residence halls.
- **FIRST** to have activities designed exclusively for YOU!

Additionally, FIRST participants will attend the same core freshman classes with study sessions and tutoring available in your residence hall neighborhood. These are just a few of the benefits of putting yourself FIRST!

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"Living on campus makes it so easy to meet new friends... and it’s great to have it so convenient to get to class. Living on campus makes it easy to always know what’s happening on campus, and it’s convenient getting to class because I never have to drive. I’ve also learned to live with lots of different kinds of people and personalities. Everyone should experience dorm life.”

Becky Scholten
Mechanical Engineering
Valley Springs, SD
The renovations to the King Center give the students a first-class wellness center that allows students to work out and stay healthy without having to leave campus and buy a membership to an off-campus facility.

**Intramural Athletics**

You can join one or all of Tech’s intramural sports. Some of the options include basketball, softball, volleyball, pool, soccer, racquetball, flag football, wallyball, waterpolo, and bowling. You also can join the Tech soccer club, a non-varsity team that travels regionally to matches and tournaments.

“I would tell anyone considering Tech to go for it!”

I chose Tech because of its excellent academic reputation. Even if you are unsure of the major you want to pursue, there are lots of valuable classes you can take while you make a decision. There’s lots to do on campus, too. I’m involved with intramural sports because a person needs to find a balance between work and play. Intramurals are a great way to get a break from the books and meet new people with similar interests.”

**Erica Hinker**
Interdisciplinary Sciences
Sturgis, SD
Tech Traditions

You’ll become one of thousands of Tech students who have been carrying on fun university traditions for over 100 years. You’ll wear a green beanie as a freshman, white wash M-Hill, play a little mud volleyball, and sport a senior hat, and have more fun than you thought possible!

Get Involved

- Music
- Drama
- Professional
- Cultural
- Sororities
- Fraternities
- Academics
- Honor societies
- Varsity athletics
- Intramurals
- Journalism
- Politics
- Service
- Religious
- Military
- Special interest
- Or any of the other 70 groups

Tech student Jason Kusler with the Hardrock Flying Club airplane.

www.hpcnet.org/studentlife
Tech is a great school for engineering and science, and I knew that it would be an excellent place to start pursuing a career. The major reason for that is that the professors are experts in their fields and are here to teach you all the things you need to know to become an expert yourself. And that’s what I want to be - a master in the field of Computer Science. Being around professors and students who work as hard as they do motivates me to do my best and to strive for excellence.”

Inchong “Jan” Lucks
Computer Science
South Korea

The Ivanhoe International Center provides assistance to international students so they may successfully complete their chosen degree program at South Dakota Tech. To view the information and resources available to you, visit www.hpcnet.org/international

Multicultural Opportunities

South Dakota Tech introduces you to the world through a variety of activities. The annual Multicultural Expo brings many cultures on campus so you can learn about other countries, taste ethnic food, and meet people from places you’ve read about. The Diwali festival brings an exciting Indian tradition to Tech, complete with dancing and fireworks. You’ll also meet people who speak different languages, celebrate different holidays, and who can teach you about what life is like halfway around the world. Besides making you a more interesting person, learning to work with students from around the world is a skill employers want, and it belongs on your resume.

Study Abroad

If you want to truly experience another culture without interrupting your studies, you can take part in an exchange program that sends South Dakota Tech students overseas for a semester at a time. Several Tech students are currently studying in Norway, learning to work with people different from them. That’s a skill employers want, and the experience will enrich your life.

http://www.hpcnet.org/StudyAbroad
You wouldn’t buy a car without driving it first, and you shouldn’t choose a college until you’ve visited it. The best way to learn if South Dakota Tech is right for you is to visit campus and meet with faculty, students, and staff. We schedule visits at 9 a.m. and 1 p.m. every weekday. Take your test drive by calling Admissions at (605) 394-2414, (800) 544-8162, ext. 2414, or send us an email at admissions@sdsmt.edu.

Admissions counselors can answer your questions about entrance requirements, costs, financial aid, scholarships, student activities, and housing. We will personalize your visit by arranging tours of the departments that you tell us you want to see. You can talk with the professors who will teach your classes, see classrooms, and check out students and faculty working in our laboratories.

Will I make friends? Absolutely, as long as you make sure it happens (that means getting out of your room). People on Tech’s campus are friendly. There’s never a reason to sit by yourself in the cafeteria.

What’s there to do in Rapid City? Shop the Rushmore Mall. See a movie on the largest screen in the state. Visit Reptile Gardens or The Cosmos. Hang out in the historic downtown.

Can I handle all the classes? Let’s be honest. It won’t be a walk in the park. But if you study and put some effort into the work, you’ll do fine. If you struggle, there are lots of people on campus willing to help.

Will I like Tech? We think so. It’s a comfortable campus, small enough so you can make your mark, but big enough to offer you the opportunities you want and need to succeed in a world that’s becoming ever more competitive.

Visit Tech

You wouldn’t buy a car without driving it first, and you shouldn’t choose a college until you’ve visited it. The best way to learn if South Dakota Tech is right for you is to visit campus and meet with faculty, students, and staff.

We schedule visits at 9 a.m. and 1 p.m. every weekday. Take your test drive by calling Admissions at (605) 394-2414, (800) 544-8162, ext. 2414, or send us an email at admissions@sdsmt.edu.

Tech Student Ambassadors

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“This is an awesome place to be!”

If I was trying to convince a friend to come to Tech, I would tell them that this is an awesome place to be. There are tons of people who care about you and your success, and are more than willing to help. It’s not an easy school, but it’s a great place to challenge yourself academically as well as personally. I love being involved on campus because I think I learn just as much outside of the classroom as I do inside it. That’s another great aspect of Tech. It’s easy to get involved, there are tons of organizations, and everyone’s always looking for new people and new ideas to be on their team.”

Jenni Christensen
Electrical Engineering and Math
Bloomington, MN
There are lots of scholarship opportunities available on campus, and professors are more than willing to help you pursue scholarships offered outside campus. The scholarship kept me from having to take out school loans for three of my years here. I also didn’t have to think about working, so I could just focus on school. If you’re thinking about coming here, go for it. It’s a great university.”

Tony Fischer
Mechanical Engineering
Midland, SD

The national average student loan debt for Fall 2002/ Spring 2003 graduates is $18,900 compared to Tech’s $12,028 average cost of a 4-year undergraduate degree.

<table>
<thead>
<tr>
<th>SD</th>
<th>WUE*</th>
<th>MN</th>
<th>IA/NE</th>
<th>Child of Alum</th>
<th>Other Non-SD</th>
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<tr>
<td>Tuition and Fees*</td>
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<td>$5,960</td>
<td>$5,600</td>
<td>$5,960</td>
<td>$5,960</td>
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<tr>
<td>Room and Board*</td>
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<td>$3,960</td>
<td>$3,960</td>
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<tr>
<td>Books and Supplies*</td>
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<td>$850</td>
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<td>$850</td>
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<tr>
<td><strong>Total Cost per Year</strong></td>
<td><strong>$9,650</strong></td>
<td><strong>$10,770</strong></td>
<td><strong>$10,410</strong></td>
<td><strong>$10,770</strong></td>
<td><strong>$10,770</strong></td>
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* Western Undergraduate Exchange (WUE) tuition rate is offered to all students from the following states, regardless of major: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, Utah, Washington, Wyoming.