South Dakota
School of Mines & Technology

2003-2004 Viewbook
Admissions and Scholarship Applications Enclosed

Real Learning
Real Fun
Real Life

Average Starting Salary
$47,000
90% Placement

Real Results

www.sdsmt.edu
Before Custer made his Last Stand, he led a caravan of wagons and soldiers through the Black Hills of South Dakota. He found gold. The discovery started a rush of East Coast adventurers and get-rich-quick wannabes, who flooded the southwest corner of the state. Most of them went broke or broke their backs while seeking their fortunes. One group of miners and investors discovered a massive vein of gold and started the Homestake Gold Mine.

The mine grew, and needed educated miners. The state opened what would become the South Dakota School of Mines and Technology to supply needed workers. Today, School of Mines students work with cutting edge technology and professors who actually teach classes to learn how to build tomorrow’s world and how to solve tomorrow’s problems such as global warming and transportation needs.

Rugged individuals and pioneers in science founded the university more than a century ago. Its students carry on that tradition today.

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**Tech Facts**

**Location:** Rapid City, SD, population 60,000

**Enrollment:** 2,094 undergraduate, 353 graduate

**Average Annual Tuition and Fees:**
South Dakota residents $5,175
Room and Board $3,561

**Average Starting Salary of Tech Grad:**
more than $47,000

**Students living on campus:**
22 percent

**Students living in fraternity and sorority houses:**
5 percent

**School Colors:** Blue and gold

**Student to faculty ratio:** 18/1

**Students come from:** 39 states and 25 countries

**Financial Aid and Scholarships:**
$8 million annually in financial aid and scholarships
70 percent of Tech students receive some form of financial aid, including more than 400 university scholarships.

**Placement:**
Within six months of graduation, more than 90 percent of Tech students are either working in their career fields or pursuing graduate/professional degrees.

**Co-ops and Internships:**
Cooperative Education (Co-op) provides students with the opportunity to integrate their classroom learning with “real world” work experiences in industry. The Co-op Program is a partnership with business, industry, government agencies, and SDMS&T. Students are employed in positions related to their major and may obtain academic credit for their co-op experience.

www.sdsmt.edu
Dear Friends,

The South Dakota School of Mines and Technology is a special place. South Dakota Tech offers the programs, and has the faculty, to help students achieve success - in the classroom, in life, and in the workforce. If you look at Tech’s history, you’ll see a constant effort to build on an already excellent university. Faculty and administrators search for ways to take classes, majors, and the university to a new level of excellence. They also investigate majors and programs we should offer in the future to guarantee we meet the needs of our students. That means you can be assured that you will have access to the most current teaching practices and the most modern equipment and laboratories. It also means that we can help you reach your life and career goals, whether they are in science or engineering, or in medicine, law, or some other professional field. Your experience here will be an adventure. I invite you to join us.

Charles P. Ruch
President
South Dakota School of Mines and Technology

Tech lends itself to a “small-school” atmosphere where students know each other and get to know the faculty as well. All the students are here to learn and succeed. There is a sense of pride telling others that you attend one of the best engineering schools in the region. Not too many other people can say they graduated from the School of Mines! Tech traditions like the Freshman Beanies and M-Week activities still hold strong and are unique to Tech. The student body is amazing; such a diverse group with students from Wyoming, Texas, China, Indonesia...everywhere! And all of this is experienced in the Black Hills, one of the most beautiful areas in the nation.

Wes Roth
Student Association President
Computer Science
Laramie, WY
The Black Hills

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.”

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 that commonly hover above the freezing mark 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 won’t be bored.

I’m involved with TONITE, the Leadership Development Team, Student Association, Orientation, Bike Club, Triangle Fraternity, SAE Aero Design Team, and the M-Week Committee. I’ve been Junior Class President, Chair of the Leadership Development Team, Treasurer of the Aero Design team, chair of the Bike Club, and M-Week subcommittee chair. Needless to say, there’s more than enough to do on campus. The same is true off campus. My favorite off-campus activity is cycling in the Black Hills. There are so many trails here, you’ll never have time to ride them all. I’m also involved with intramural Flag Football and road and mountain bike racing with the Black Hills Mountain Bike Association.

The South Dakota School of Mines and Technology is a small campus that offers quality teaching and cutting edge research in the sciences and engineering. We offer small class sizes that encourage learning, and Tech is a place where students and teachers can explore science and engineering together in challenging and creative environments. The Black Hills offers a great learning environment for students and professors. While we understand many things about the natural environment, there are still many more things to learn. Research at South Dakota Tech includes everything from hydrology to ecosystem ecology, and students have many opportunities to be involved with the cutting edge research that helps us better understand the environment in which we live.

Dr. Kerri Vierling
Assistant Professor, Biology

Scott Fritz
Industrial Engineering
Sioux Falls, SD

Real Adventure

Real Learning

www.sdsmt.edu
In addition to helping provide the best design and manufacturing education to Tech students, the Center of Excellence for Advanced Manufacturing and Production (CAMP) is an exciting program that will help companies solve design and manufacturing problems through the use of enterprise teams. 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.

Nick Koch  
Mechanical Engineering  
Plankinton, SD

I chose Tech because of its excellent reputation in Mechanical Engineering as well as its location in the Black Hills. Tech also provides a small campus atmosphere with big campus opportunities in both project involvement and research. Undergraduate research is an incredibly effective way of moving the engineering curriculum at Tech to the next level. It gives students exposure to advanced laboratory equipment and experimental procedures, while requiring students to apply the fundamentals that they learned in the classroom.

Jon Bogott  
Computer Engineering  
Bloomington, MN

As a child, I always took apart anything I could get my hands on. My father was an engineer and sometimes helped me put it all back together. I always wanted to know how things worked and how they could be improved. Engineering is just an extension of my childhood. I get to learn how things work and how improvements might be made. There are so many hands-on projects that you can get involved with here. 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 and learn about other majors. There’s a lot to do off campus, too. I love rock climbing and snowboarding. There is world-class climbing in the Black Hills, and beautiful Terry Peak ski resort is only 45 minutes away.

Jack Massarello  
Metallurgical Engineering  
Canton, MI

I chose my major, metallurgical engineering, because of the many heavy vehicle component failures I witnessed during my time in military service. I was interested in learning more about the properties and structure of materials, and what prompts them to fail prematurely. The benefit I appreciate most from my undergraduate research experience is the connection between academics and professional industry. After years of studying theory and design, research allows me to use my hard earned problem solving skills. It also gives me the opportunity of pursuing my space pioneering career goals at an early stage. My research involves considering improved performance of composite tanks in cryogenic fuel storage applications. The research gives me a positive attitude and an early indication that my goals are attainable with a degree from Tech.

REAL LEARNING

www.sdsmt.edu
Real Achievements

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 in 2000. 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.

Faculty Research

Professors, students, and researchers investigate ways to reduce pollution. They study nesting habits of woodpeckers. They experiment with new materials for the U.S. military of the future. These all are important projects, but the best part is, you can participate in them! Right now, two students (one an Electrical Engineering major and the other a Geological Engineering major) are working in our new microwave lab to test the use of nickel-zinc ferrite-loaded, wood paneling as a radio frequency (RF) absorbing building material. You may be able to go to a “cell-phone free” concert hall someday because of their work. And, all the while, the professors mentoring these students are developing new project-based teaching techniques, meaning their taking research and applying it in the classroom. If your professors know your name and your interests, and are on the lookout for ways to get you involved in research and projects, then you will succeed, and that happens here.

Degrees Offered

Associate of Arts Degree
General Studies

Bachelor of Science Degrees
Chemical Engineering
Chemistry
Civil Engineering
Computer Engineering
Computer Science
Electrical Engineering
Environmental Engineering
Geological Engineering
Geology
Industrial Engineering
Interdisciplinary Sciences
Mathematics
Mechanical Engineering
Metallurgical Engineering
*Mining Engineering and Management
Physics

*New program pending Faculty and Board of Regents Approval.

Master of Science Degrees
Atmospheric Sciences
Chemical Engineering
Civil Engineering
Computer Science
Electrical Engineering
Geology and Geological Engineering
Materials Engineering and Science
Mechanical Engineering
Paleontology
Technology Management

Doctor of Philosophy Degrees
Atmospheric, Environmental, and Water Resources
Geology and Geological Engineering
Materials Engineering and Science
Majors

Civil Engineering
Geological Engineering
Geology
Environmental Engineering
(interdisciplinary program)

The Facts

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.

Minors

Atmospheric Sciences
Geology

Sample Careers

Civil Engineer
Environmental Engineer
Geologist
Meteorologist
Structural Engineer
Water Quality Engineer

Jennie Wentz
Civil Engineering
Faith, SD

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. I’m on my way to becoming a Civil Engineer. That’s all down the road of course, but what a ride it is getting there. 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. Basically, this is a place where you’ll get a great education and have a great time, too. A great thing about a small school like Tech is you can become more involved with everything. Professors are available, so you can always find help. Plus, I know they care. It’s also nice to be a name instead of just a number. 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. There’s a ton of stuff to do outside class, too. There’s like 70 or more groups to join. And that’s just on campus. In the Black Hills, you can hike, bike, ski, snowboard, fish, boat, or whatever you want. If you like the outdoors, this is the place. Rapid City’s great, too. There’s lots of shopping and restaurants and part-time jobs, and it’s safe. I’m from a really small town, but I feel just as safe in Rapid City.
South Dakota School of Mines and Technology offers outstanding coursework and field opportunities for students interested in environmental engineering. The undergraduate program is designed to give students a wide range of options. Areas of focus include water resources, environmental management, disposal of wastes, recycling, cleanup of environmental contaminants, and mining-related work. South Dakota Tech is located in the Black Hills, the home of Mount Rushmore and numerous trout streams. The Gilt Edge Superfund Site is just one of several abandoned mines where students can view current environmental engineering projects first-hand. The need for environmental engineers is great and is predicted to remain strong as our nation’s growing population puts increasing stress on our resources and environment.

Dr. Henry Mott
Professor
Civil and Environmental Engineering Department

Stephanie Matthews,
Geological Engineering ’79,
Owner,
M&M Geological Consultants

Steve Pirner,
Civil Engineering ’72,
Director,
S.D. Department of Environment and Natural Resources

Michael Stonefelt,
Civil Engineering ’98,
Water Resources Engineer,
WW Wheeler and Associates

Kathy Johnson
Ph.D., Geology, 1986
Owner and Principal Consultant,
Johnson Environmental Concepts
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 a bunch of 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.

**THE FACTS**

**SAMPLE CAREERS**

- Doctor
- Environmental Scientist
- Lawyer
- Medical Technician
- Nurse
- Personnel Manager
- Public Relations Specialist
- Social Worker

The Interdisciplinary Sciences program gave me the opportunity to emphasize my interest in the business field and be flexible with the direction I wanted to pursue. I want to use my degree to help me obtain an MBA and become a prestigious manager in a large corporation. I chose Tech because of the great academics, the opportunity to play college basketball and volleyball, and because the cost was very affordable. I found a great atmosphere here. The small size gives you the opportunity to get to know a lot of people and the professors. I think the main advantage that Tech has to offer is the one-on-one time you spend with your professors. The professors are here to help students succeed, and they are dedicated to providing assistance to each student whenever it’s needed. My four years here at Tech have really helped me grow as an individual. I have had some of the best experiences and gained friendships that will last a lifetime.

**Jami Zilles**

Interdisciplinary Sciences

Logan, UT
Successful Alumni

**Frances Kay Linn.**
Interdisciplinary Sciences '99,
Peace Corps volunteer

**Jeff Woodmansee.**
Interdisciplinary Sciences '97,
pilot,
Mesa/Air Midwest Airlines

**Shelly Cass.**
Interdisciplinary Sciences '96,
math teacher

**Matt Bunkers**
BS, Interdisciplinary Sciences, 1992
MS, Meteorology, 1993
**Science and Operations Officer, National Weather Service**

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**Dr. Kathy Antonen**
Professor and Chair
Humanities Department

There's one word that describes why students should choose Tech - environment. Tech’s academic environment motivates students to succeed, and high achievement is the norm at Tech. It's cool to be smart here. People recognize, admire and respect a good mind. There’s also one word that describes the benefits of the College of Interdisciplinary Studies - flexibility. The Interdisciplinary Sciences degree translates to about 45 elective credits and about 83 required credits. That means students determine a third of their courses. Students work individually and actively with advisors to design a course of study that suits each student’s career goals. The IS degree is a rigorous degree that gives students a broad-based background in the sciences and liberal arts that graduates can use for a variety of career choices.
MAJOR
Chemical Engineering
Chemistry
Metallurgical Engineering
Physics

MINOR
Physics

THE FACTS
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.

SAMPLE CAREERS
Aerospace Engineer
Chemical Sales
Industrial Research
and Development Plant Engineer
Medical Equipment Researcher
Solid State Physicist

Katie Begeman
Chemical Engineering
Rapid City, SD

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. Tech has many opportunities that set it apart as a premier university. It’s a close-knit campus and the professors are always available. Rapid City’s my hometown, but I haven’t missed out at all by staying here. I love the Black Hills and appreciate them more now. I’ll always have the chance to travel and live different places when I’m older.
Tech has a long history and tradition of excellence in education in the fields of science and engineering. Tech offers sound and cutting-edge knowledge and foundation in these areas at a low cost. Students will experience direct benefits from Tech’s dedicated and caring faculty. Students also will also have hands-on experience on various pieces of state-of-the-art equipment. The knowledge they gain from the faculty is current, stimulating, and applicable to practical applications in the advancing fields of science and engineering. The College of Materials Science and Engineering offers a well mixed and balanced curriculum in science and engineering disciplines and is unique in its composition. The field of materials science and engineering covers a wide spectrum of disciplines including basic science such as chemistry, biology, and physics on one hand, and engineering aspects of materials such as chemical engineering, bio-chemical engineering, and metallurgical engineering. Students in the College enjoy direct contact with professors in all of these fields.

**Successful Alumni**

**Dr. Ken Han**  
Professor  
Materials and Metallurgical Engineering Department

**Scott Hammer,**  
Chemistry ’93,  
Research Technician,  
Mayo Clinic

**Thomas Hertz,**  
Metallurgical Engineering ’68,  
President,  
Thomas W. Hertz P.C.

**Ronald Holyer,**  
Physics ’66,  
Supervising Mathematician,  
National Oceanic and Atmospheric Administration (NOAA)

**Rob Mudge**  
BS, Metallurgical Engineering, 1976  
MS, Metallurgical Engineering, 1978  
President and Owner,  
RPM and Associates,  
President, RPM Solutions
THE FACTS

You know this - the world is becoming more complex. That means 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 all those 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 the other areas. You'll find the technical knowledge you need and the ability to work with others with any degree from the College of Systems Engineering.

SAMPLE CAREERS

- Computer System Designer
- Manufacturing Supervisor
- Power Engineer
- Robotics Engineer
- Software Designer
- Statistician

Dan Rausch
Computer Science and Math
Big Stone City, SD

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. I made up my mind during my campus visit. The professors I met 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.
Dr. Mike Batchelder
Professor
Electrical and Computer Engineering

Tech is focused on excellent undergraduate education. It is small enough that students can work closely with professors who are here because they enjoy working with students. Students apply the theory they learn in class on real engineering projects - class projects, senior design projects, and extracurricular projects. They have access to state-of-the-art equipment that many universities make available only to graduate students and faculty. The Solar Car, Mini-Indy, Mini-Baja, Human Powered Vehicle, Aero Design, Robotics, and Unmanned Aerial Vehicle teams are available to all students, but many of the technical challenges most closely relate to the College of Systems Engineering students. Participating in teams such as these is an excellent way to gain real engineering experience that complements your coursework. It's challenging but fun and it gives you a real advantage in finding a job.

Successful Alumni

Bruce Sherrill,
Electrical Engineering ’71,
Software Engineer,
Raytheon

Brett Humphrey,
Computer Science ’98,
Software Development,
Microsoft

Clint Kolda,
Mechanical Engineering ’95,
Project Engineer,
Trek Bicycle Corp.

Gary Kuhl
BS, Mechanical Engineering, 1990
President, Skyline Engineering

www.sdsmt.edu
Initially, I visited Tech on a basketball-recruiting trip. I talked to several professors, students, and players, and was impressed with the outstanding academics Tech offered, the tradition and talent of the Lady Hardrocker basketball team, and atmosphere of the university's student life. If you are debating on whether to go to Tech or another school, there is no question as to where to go. Tech is known nationwide for the excellent education it offers, it has great student life and traditions, and it is located in the beautiful Black Hills. I love being outdoors, including going hiking, rollerblading, biking, swimming, and playing softball. That's why I chose my major. I've been to Yellowstone, Yosemite, and I live in the Black Hills, and I want to help preserve our natural beauty.

Tech is a member of the DAC-10 and is associated with the National Association of Intercollegiate Athletics (NAIA). Varsity sports include men's football, women's volleyball, and men's and women's basketball, golf, track and field, and cross country.

The women's basketball team has a long tradition of excellence. The team represented S.D. 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.

The renovations to the King Center give the students a first-class wellness center that will allow students to work out and stay healthy without having to leave campus and buy a membership to an off-campus facility.

Athletics is a big benefit for students in many ways. We consistently have major corporations looking for graduates who have had involvement in football. They like people who know how to be part of a team, who know how to handle adversity and competition, and can also handle a large and busy workload. Football in many ways is just like real life. If you want to be good, you had better put in your time, commit to it and not be afraid to sweat. These are all great characteristics of hard working and successful Tech football alums. Anyone can try out for the Tech football team if you have any previous experience as a high school player. We do not make cuts, so it is critical for our program to have players in it that have a true passion for the game of football and can handle the commitment of being both a student and an athlete. Our athletes do just as well, and in some cases, better than those not involved in athletics here at Tech.
I chose Tech because I saw it as an opportunity to get a good education while living at home. Tech allows students to pursue a very respected engineering degree along with offering many other kinds of classes. I'm on the track team, and I've found that schoolwork and athletics is easily balanced because of the understanding between coaches and professors that college athletes have to juggle schedules. There are a lot of benefits to being involved in athletics, too. I've competed against some of the top athletes in the NAIA and the NCAA. I am in much better physical shape than I was before. I have also ran into old friends at track meets that I knew before college.

O’Harra Field is one of the most unique 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.

I chose Tech because of its excellent academic reputation. I knew that going to this university would increase my chances of being accepted into the medical radiography program I will be applying to. I would tell anyone considering Tech to "Go for it!" 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. Engineering is a great field to get into, but if you don't want to be an engineer, like myself, you can get into almost any graduate or professional program you would like from here. 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. Studying all the time can make a student so crazy. Intramurals are a great way to get a break from the books and meet new people with similar interests.

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.
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 a new 300-bed residence hall adjacent to the north end of the Surbeck Center. Room configurations will feature suites and standard double rooms. Study lounges, a kitchen, and an exercise room also will be included. Since the residence hall will connect to the Surbeck Center’s main floor, a coffee and smoothie shop are being added. The new residence hall will open in the fall of 2004.

Dana Dracy
Interdisciplinary Science
Yankton, SD

Living in the dorms is a blast! It’s a great way to get to know people, and it’s like living with a bunch of your friends. There are always other people around, so you can help each other with homework, borrow anything you need, and just hang out. A lot of the girls that were on my floor last year are now good friends of mine. The dorms are convenient because it’s just a short walk to your classes, and I love always having people around. Also, it’s very cost effective, and you never have to clean the bathroom!

FIRST (Freshman Introduction to Real Success at Tech) is a new program at SDSM&T. 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 the South Dakota School of Mines and Technology.

To be FIRST, just sign up on your residence hall application (mailed to you with your acceptance letter from SDSM&T). You will then be:

- FIRST to live in a neighborhood of the new residence hall at SDSM&T (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!
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.

Devereaux Library

Taylor Library

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 creating a wireless network, so you can connect to the campus server while soaking up the rays on the campus Quad.

Computer Labs

The Tech Bookstore is located in the Surbeck Center. Tech Bookstore serves the students, staff and faculty of SDSM&T. The Bookstore carries, text books, 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.

Tech Bookstore

Kids Kastle Little Miner’s Clubhouse provides a high quality early education and care program. The center is licensed to serve children four weeks to ten years old. Child care assistance is accepted and some SDSM&T students may also qualify for a stipend through the University’s Foundation. It is open between the hours of 5:45 a.m.-6:15 p.m., Monday through Friday, throughout the entire year. For more information or a tour please contact the child care center at 394-2586. or visit www.hpcnet.org/sdsmt/lmc

Kids Kastle

WEB ADVISOR

What is Web Advisor?

WebAdvisor is a tool that allows applicants, students, and faculty to perform many different functions online at their convenience. Those that have applied for admittance into the South Dakota School of Mines and Technology can view their admission status and placement test score summary. Students can register for classes, add/drop classes, view their academic profiles (e.g., grades, transcripts, test scores), and view their account profiles (e.g., account and financial aid information). Faculty can list their advisees, post grades, and view their schedules and class rosters. To utilize this product, you must first obtain a WebAdvisor ID and password, available to all applicants, students, both current and former, and all faculty members. However, prospective students can search for classes successfully without a WebAdvisor ID and password by visiting https://wa-sdsmt.state.sd.us/webadvisor

What is Web Advisor?
Breanne Vottero
Chemical Engineering
Rapid City, SD

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 excellent deal as far as quality of education for the price. The location and the small, friendly campus also were important factors. I'm involved with United Campus Ministries, Student Alumni Connection, Residence Life, Student Association, Hotrockers, Ski and Snowboarding Club, and the Tech Climbing Club. I'm also a Student Ambassador, Orientation Leader, and a Resident Assistant in the dorms. Being involved in organizations that you enjoy and meeting people are also a large part of the college experience and learning process.

Miles Wickersham
Mechanical Engineering and Electrical Engineering
Harrison, NE

Tech has an excellent reputation, plenty to do, and faculty who really care. You will find a place here, and you'll want the experience to remain with you forever. I'm going for both my Mechanical and my Electrical Engineering degrees. If I thought I could get away with it, I would have probably signed up for more, so I guess I just narrowed it down to the broadest fields I could think of. When I graduate, I want to use my degrees to enjoy my work as an engineer and help my fellow mar. I recommend that anyone interested in Tech to come and visit and see for yourself everything that the university has to offer.
The Office of Career Planning, Placement, and Cooperative Education is here to help you develop a plan to help you reach your career goals upon graduation. Just a few of the many services offered through Career Planning include posting your resume online, scheduling on-campus interviews, hosting job fairs for you to meet your potential future employers, and registering you for internship opportunities. Visit our website at www.hpcnet.org/sdsmt/careerplanning to learn about the many services offered to Tech students and alums.

South Dakota School of Mines and Technology students who graduated during the 2002-2003 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. That increases their marketability to employers.

<table>
<thead>
<tr>
<th>Major</th>
<th>Avg. 2002-2003 Salary Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Engineering</td>
<td>$52,207</td>
</tr>
<tr>
<td>Chemistry</td>
<td>$36,000**</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>$41,350</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>$51,797</td>
</tr>
<tr>
<td>Computer Science</td>
<td>$41,472</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>$50,671</td>
</tr>
<tr>
<td>Environmental Engineering</td>
<td>$43,104</td>
</tr>
<tr>
<td>Geology</td>
<td>*</td>
</tr>
<tr>
<td>Geological Engineering</td>
<td>$40,000</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>$46,726</td>
</tr>
<tr>
<td>Interdisciplinary Sciences</td>
<td>$40,125</td>
</tr>
<tr>
<td>Math</td>
<td>*</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>$46,096</td>
</tr>
<tr>
<td>Metallurgical Engineering</td>
<td>$46,000</td>
</tr>
<tr>
<td>Mining Engineering</td>
<td>$48,648</td>
</tr>
<tr>
<td>Physics</td>
<td>$40,000</td>
</tr>
<tr>
<td>All Engineering</td>
<td>$47,546</td>
</tr>
<tr>
<td>All Science</td>
<td>$41,178</td>
</tr>
<tr>
<td>Avg. Overall</td>
<td>$47,093</td>
</tr>
</tbody>
</table>

* Pursuing graduate school or no salary offers reported
** 01-02 average

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Internships

Tutoring in all the core subjects – math, chemistry, physics, computer science, English, and more – is provided by peer tutors and is free to all SDSM&T 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.

Learning Center

Counseling and ADA Services

Professional counseling services and ADA services are available to all SDSM&T students. Individual, group, and couples counseling as well as wellness programming is available. All services are confidential. Call 394-1924 for information.
**Graham Erickson**  
**Mechanical Engineering**  
**Sioux Falls, SD**  

I chose Tech because I was interested in engineering, it was a close to home, and an affordable option. My experience in ROTC has taught me that military training helps me in all aspects of my education. ROTC stresses self-discipline, which comes in handy when it’s late and I’m tired, but I still have schoolwork to do. ROTC also taught me better time management skills. It goes the other way, too. I’ve used my knowledge of trigonometry to plot the slope of a hill on a contour map. I hope to use the education I’ve received here and my ROTC experience to achieve my goal of some day working on the space station.

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**Nick Newell**  
**Computer Engineering**  
**Havre, MT**

I initially chose Tech for its reputation and tuition. I read numerous magazines and college rankings systems that placed Tech as a top ten "best-buy colleges" in the nation. From my point of view, this is the best ranking a college or university can receive because it means you get the most bang for your buck! Choosing to go to Tech was the best decision I’ve made thus far in my collegiate career. I have learned to become a professional while having the best time of my life. I did an internship with Ash Grove Cement in Foremar, AR, the summer following my sophomore year. I was blown away by the respect I was given as an intern. They set me loose on large-scale projects and let me be creative. The sense of trust and responsibility that was given to me was incredible. I was actually able to apply what I had learned for two years here at Tech. Not to mention, the pay was great and I got to live on a golf course, where I played nine holes after work every day! Tech is perfect for me in another way. I like to keep myself busy and there are dozens of ways to get involved on campus. I am a member of Delta Sigma Phi, active in Drama Club, Dance Team, and Student Government, a member of Tau Beta Pi and Eta Kappa Nu, and have been an Orientation Leader for the past two years.
Tech Traditions
You'll become one of thousands of Tech students who have been carrying on fun traditions for 100 years. You'll wear a green beanie, white wash M-Hill, play a little mud volleyball, and sport a senior hat.

The Facts
Tech isn't a huge school, but there's a ton of stuff to do. Join one of the 70 organizations on campus, or start your own. Like to dance? Join the Salsa Club or the Hotrocker Dance Team. How 'bout acting? The Drama Club has a casting call for you. Want to help the needy? Assist United Campus Ministry raise money for the homeless or travel to a foreign country on a mission trip. Greek Life? You bet. Pledge any of the seven fraternities and sororities. None of those things float your boat? There are dozens of other organizations or you can start your own club. Students do it every year.

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 70 groups
Inchong “Jan” Lucks  
Computer Science  
South Korea  

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.

SKILL (Scientific Knowledge for Indian Learning and Leadership) is a pre-college program that provides opportunities to improve the college-readiness of American Indian students in math and science. SKILL provides a wide range of programming for elementary through high school students including research opportunities, tutorial assistance, and academic summer programs.

Misty Mousseaux  
Interdisciplinary Sciences  
Porcupine, SD  

I came here for a summer program called SKILL (Scientific Knowledge for Indian Learning and Leadership). Now, I’m preparing for my final year in college. The Office of Multicultural Affairs and groups like the American Indian Science and Engineering Society helped me reach this point because they create a circle of students and professionals who network and get involved with programs that keep you coming back and moving forward. They also provide students the attention that they might not get anywhere else, and they go out of their way to help you find internships, research opportunities, and co-ops.
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.

Jenni Christensen  
Electrical Engineering and Math  
Bloomington, MN

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.

Melissa Huntimer  
Civil Engineering  
Omaha, NE

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.
Scholarships and Financial Aid

There are lots of scholarship opportunities available on campus, and professors are more than willing to help you pursue scholarships offered outside campus. I received the Bill and Melinda Gates Millennium Scholarship, and I owe part of that success to the professors who helped with the application. The scholarship kept me from having to take out school loans for three of my years here. That really helped. I also didn’t have to think about working, so I could just focus on school. I’ve been involved with the American Society of Mechanical Engineers and the American Indian Science and Engineering Society, and I’ve learned a lot through those organizations. If you’re thinking about coming here, go for it. It’s a great university.

Financial Aid

Mary college students have limited funds and find it necessary to supplement their personal and family financial resources for college. The South Dakota School of Mines and Technology administers a comprehensive financial aid program that amounted to more than $8 million for 2002-2003. Staff members are available in the Academic and Enrollment Services - Financial Aid Office to help students secure needed financial aid. Members of the staff make every effort to develop a financial aid package (some combination of loan, job, and grant) that will make it possible for capable, qualified, and needy students to finance college and living costs. For more detailed information, please go to the website at www.sdsmt.edu, click on "Current" or "Prospective" student, and then click on "Financial Aid & Scholarships".

Loan Debt

The national average student loan debt for Fall 2001/ Spring 2002 graduates is $17,900 compared to SDSM&T's $12,945 average cost of a 4-year undergraduate degree.

Scholarships

The 2004-2005 Freshman Scholarship Application is available on-line on our website www.sdsmt.edu, by clicking on "Current" or "Prospective" students and then on "Financial Aid & Scholarships." A link to the on-line application is provided on the "Grants & Scholarships" page.

Annual Costs

* Tuition and Fees
  SD: $4,293
  WUE: $5,375
  MN: $5,154
  IA/NE: $5,375
  Other Non-SD: $9,005

  Room and Board
  SD: $3,561
  WUE: $3,561
  MN: $3,561
  IA/NE: $3,561
  Other Non-SD: $3,561

  Books and Supplies
  SD: $850
  WUE: $850
  MN: $850
  IA/NE: $850
  Other Non-SD: $850

  Total Cost per Year
  SD: $8,704
  WUE: $9,786
  MN: $9,515
  IA/NE: $9,786
  Other Non-SD: $13,416

* 15 credits per semester
† Rates based on approximate average. Costs may vary.

Western Undergraduate Exchange (WUE)