HOTTEST OF THE HOT

Twenty of M State's Top Programs

based on return on investment: program cost, starting wage, labor outlook and graduate placement rates
Dear Friends and Alumni:

Success for our students. That is the goal at Minnesota State Community and Technical College, where an affordable and quality education prepares students to succeed in their lives.

• We offer success to students in our transfer pathways, providing the first two years of a four-year education in a way that saves students thousands of dollars and prepares them for entry as a junior at the four-year institution of their choice.

• We offer success to students in our occupational programs, where we partner with industry to ensure that our graduates have a competitive edge in meeting employers’ needs and succeed in their careers.

• Finally, we offer success to businesses and industries throughout our region with workplace solutions, helping employers affordably enhance the knowledge and skills of their current workforce.

This issue of the M State Magazine focuses on M State’s “hottest of the hot” occupational programs – 20 programs that stand out because of the current opportunities for return on educational investment in today’s labor market. You will find information on:

• Total program cost and length
• Placement rates (as reported by our students themselves!)
• Anticipated starting and mid-career wages, along with the labor outlook
• Business and industry representatives who partner with our programs

The return on educational investment is high!

Picking just 20 of our programs was not an easy process; we are so very proud of all 70 M State occupational programs, many of which can be completed in one year or less. All benefit from business-and industry-led advisory committees, and all have commendable job placement rates for graduates.

Whether a student enrolls in a single class or a certificate or degree program, we want students to succeed by avoiding great debt, by realizing the capacity to persist and overcome obstacles that could hinder success, and by recognizing that an investment in higher education is well worth the time, money and effort.

To meet the ever-changing needs of our regional workforce, M State has taken innovative approaches to increase our agility in developing new programs to better match the speed and expectations of business partners. M State and numerous companies have partnered to attract students and provide them with incentives to enroll in classes and remain in our region to live, work and play. When students are unable to attend classes on campus, M State has traveled to their work sites or closer to their homes with mobile labs and new locations that serve rural Minnesota and multiple businesses. We work hard to bring high-quality education and caring support to learners in our region.

We share these “hottest of the hot” occupational programs to highlight the many ways M State impacts individuals, businesses and communities in our region and beyond, with the sincere hope that you will find your own success through the M State program that most interests you!

Sincerely,

Dr. Peggy D. Kennedy, President
Congratulations, Spring 2017 Graduates!

Friends, family, faculty and staff are invited to join our students as they celebrate their graduation from M State.

Commencement Ceremony Schedule

**Detroit Lakes Campus**
7 p.m. Wednesday, May 3, at Detroit Lakes High School

**Fergus Falls Campus**
3 p.m. Thursday, May 4, on the Fergus Falls campus

**Moorhead Campus**
4 p.m. Tuesday, May 9, at Concordia College in Moorhead

**Wadena Campus**
5 p.m. Friday, May 5, at Wadena/Deer-Creek High School

No tickets are required for attendance.

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**M State Magazine** is the official magazine of Minnesota State Community and Technical College. It is published by the college’s Communications and Marketing Department each spring and fall. Articles may be reproduced without permission if credit is given to the institution.

Minnesota State Community and Technical College is an equal opportunity educator and employer and is a member of the Minnesota State system.
M State programs sizzle with skills you can use. They crackle with knowledge. They radiate the abilities that set M State graduates apart. Our business and industry partners tell us that M State grads are a hot commodity, and they want more!

All our programs are hot, but this issue of the M State Magazine features the “Hottest of the Hot” – 20 programs selected for their wage potential, labor market outlook, partnership strength and overall employability.

Here’s what you’ll find:

**Campus:** We have campuses in Detroit Lakes, Fergus Falls, Moorhead and Wadena, along with online courses and programs. Some programs are offered at multiple locations so you can choose the location that’s best for you.

**Program length:** Thirty credits generally equal one year of full-time attendance (usually with summer off). Of course, programs take longer to complete if you attend part time.

**Total estimated program cost:** No hidden costs here: This is the total cost of tuition, fees, books, supplies and tools for the whole program. When a program is offered in more than one location, the costs were averaged.

**Placement rate:** Every year, we’re required to reach at least 85 percent of our graduates and find out if they landed that job within one year. We usually do even better, reaching between 90 and 100 percent of our graduates.

**Starting wage/mid-career wage:** These are the wages you can expect starting out and at mid-career within a 100-mile radius of our college in today’s dollars. Remember, many of these jobs also offer benefits.

**Labor outlook (percent growth over 10 years):** This tells you how much growth labor market advisor EMSI forecasts in the number of jobs available in our region over the next 10 years.

**Job opportunities:** Our program graduates are hired for jobs like the ones listed. As you’ll see, every program prepares you for a variety of positions.

**Similar programs:** If you’re intrigued by a program, you may want to consider a few of the other M State programs we’ve listed.

Ready to get started? Great! Here are the Hottest of the Hot (don’t burn your fingers)!
Spark your interest:
There is an increasing need for information technology professionals trained in security and network administration. Working under the guidance of IT security-certified instructors, students build and work in a virtual lab environment, with enhanced learning through community projects and competitive collegiate events. Using industry guidelines, they write security policies, implement security controls, write incident reports, develop business continuity plans and learn how to maintain backup systems and perform security assessments – all with the goal of helping organizations reduce their risk of loss from a security incident.

Our advisors in business and industry:
Affiliated Computer Systems, Arvig Communication Services, Bank of the West, City of Moorhead, ComStar Inc., Detroit Lakes Public Schools, Digi-Key Corp., Frazee-Vergas Public Schools, Joey’s PC, Lakewood Health Systems, Mason Brothers Inc., Perham Memorial Hospital and Home, Perham-Dent School District, Ryan’s PC Training, Sanford Health, Star Energy Services, St. Mary’s Regional Health Care, The Computer Guy, Tri-County Hospital, Veterans Administration, West Central Telephone

Typical starting wage is $42,193 increasing to a mid-career wage of $52,759

Labor Outlook

11% increase over 10 years

Job Opportunities

- Environmental Science Technician
- Environmental Scientist
- Environmental Toxicologist
- Water Quality Analyst
- Environmental Health Specialist
- Environmental Protection Specialist

You do the math!
Maximum Pell Grant in 2016-2017 was $5,815
Full-time M State tuition and fees in 2016-2017 totaled $5,361

Facts on Fire

Learn more about all of M State’s programs. Visit minnesota.edu/programs

Environmental Science AS
Fergus Falls • Moorhead

Spark your interest:
The field of environmental science requires an understanding of biology, chemistry and earth science. M State’s Environmental Science AS degree provides students with a background in natural sciences and math that helps them succeed in this broad field. Students have the opportunity to learn in the classroom, in the laboratory and in the field through hands-on coursework and connections with professionals in the industry. The program has articulation agreements with Bemidji State University, Minnesota State University Moorhead and University of Minnesota Crookston.

This major is Designed for Transfer to a four-year college or university

Similar M State Programs you might like
- Associate of Arts degree
- Biological Science AS
- Chemistry AS

Program Length
2 years, 60 credits

Total estimated program cost
$12,772

Typical starting wage is $47,969 increasing to a mid-career wage of $65,548

Labor Outlook

13% increase over 10 years

Job Opportunities

- Information Security Technician
- Security Administration
- Network Security Technician
- Personal Systems Support Technician
- Linux Support Technician

You do the math!

Maximum Pell Grant in 2016-2017 was $5,815
Full-time M State tuition and fees in 2016-2017 totaled $5,361

Network Administration and Security AAS
Moorhead

Spark your interest:
There is an increasing need for information technology professionals trained in security and network administration. Working under the guidance of IT security-certified instructors, students build and work in a virtual lab environment, with enhanced learning through community projects and competitive collegiate events. Using industry guidelines, they write security policies, implement security controls, write incident reports, develop business continuity plans and learn how to maintain backup systems and perform security assessments – all with the goal of helping organizations reduce their risk of loss from a security incident.

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Program Length
2 years, 66 credits

Total estimated program cost
$15,939

Typical starting wage is $47,969 increasing to a mid-career wage of $65,548

Labor Outlook

88% of program graduates find education-related employment

13% increase over 10 years

Job Opportunities

- Cisco Networking
- Computer Programming
- Information Technology
- Network Security
- Web Design

Similar M State Programs you might like
- Information Security Technician
- Security Administration
- Network Security Technician
- Personal Systems Support Technician
- Linux Support Technician
Spark your interest:
M State’s Web Design certificate program introduces students to the most current strategies and technologies used in the web design industry. A unique attraction of the program is its flexibility, with eight of its 10 online courses offered in eight-week blocks so students can finish the courses (including prerequisites) in one academic year. Students completing other AA or AAS degree programs can opt to earn the Web Design certificate as part of their studies, providing valuable state-of-the-art experience in this growing field.

Our advisors in business and industry:
Absolute Marketing, Spidertrap, Sundog

Free Application for Federal Student Aid
It costs nothing to complete the FAFSA at fafsa.ed.gov.

Business-to-Consumer Sales
Business-to-Business Sales
Marketing Positions
Entry-level Management Positions

Similar
M State Programs you might like
Business
Business Administration
Business and Banking
Human Resources

Affordable Education!
Last year, M State awarded $7.5 million in Federal Pell Grants to 2,275 students.
Architectural Drafting and Design AAS
Detroit Lakes

Spark your interest:
The construction industry is seeing a strong demand for technically trained designers and drafters. The core of M State’s program is computer-aided design; students graduate as entry-level CAD technicians and find job opportunities with manufacturers, residential contractors and estimators, and with mechanical, electrical and structural engineering firms. Program internships frequently lead to employment opportunities, and service learning enhances classroom learning by providing real-world experience.

Our advisors in business and industry:
BHH Partners, Braun Intertec, Crane Johnson Lumber Co., Martin Mechanical, Obermiller Nelson Engineering, Schik Engineering, Ulteig Engineers

68 CREDITS
Program Length
2 years, 68 credits

Total estimated program cost
$14,571

Of program graduates find education-related employment
88%

Labor Outlook
9% increase over 10 years

Job Opportunities include
Civil Engineering Technician
Civil CADD Technician
Civil Survey Technician

Civil Engineering Technology AAS
Detroit Lakes

Spark your interest: Students graduate from the Civil Engineering Technology program with the skills to apply engineering principles in a variety of industries. Graduates work on survey teams, test construction materials, extract material samples and produce blueprints. Much of the work of civil engineering technicians is in the field and involves applying knowledge of road and utility design, hydrology and geographic information systems to projects including municipal construction, soil sampling, concrete compression and mapping.

Our advisors in business and industry:
Apex Engineering, Braun Intertec, Houston Engineering, Meadowland Surveying, Midwest Testing, Minnesota Department of Transportation, Moore Engineering, North Dakota Department of Transportation, Otter Tail County, Sellin Bros. Inc., Sherbrooke Turf, Ulteig Engineers, Inc.

72 CREDITS
Program Length
2 years, 72 credits

Total estimated program cost
$15,519

Of program graduates find education-related employment
100%

Typical starting wage
$35,677
Increasing to a mid-career wage of
$45,202

9% increase over 10 years

Job Opportunities include
Engineering Technician
Architectural Drafter

Similar M State Programs you might like
Architectural Drafting and Design
Construction Management
Drafting and 3D Technologies
Engineering
Survey Technician

Remember the 1:2:7 Ratio
For every U.S. job that requires a graduate degree, there are two jobs that require a four-year degree and SEVEN jobs that require a two-year degree or less.
Construction Management AAS
Moorhead

- Program Length: 2 years, 66 credits
- Total estimated program cost: $15,142
- 91% of program graduates find education-related employment
- Typical starting wage is $37,594 increasing to a mid-career wage of $53,996

Spark your interest:
Construction managers are needed in an array of specialties, including residential, commercial, industrial, civil engineering and energy-related construction. As with other construction-related occupations, job growth is expected to continue. Internships enhance course work and provide marketable experience. For many construction managers, one of the job benefits is the opportunity to work outdoors on job sites rather than primarily in an office.

Our advisors in business and industry:
Aevenia Energy and Electrical Construction, Braun Intertec, Kochmann Brothers Homes, Mid America Steel, RRC Specialties, Tecta America Dakotas, Wanzek Construction, Wrigley Mechanical

Diesel Technology AAS
Moorhead

- Program Length: 5 semesters, 79 credits
- Total estimated program cost: $20,101
- 100% of program graduates find education-related employment
- Typical starting wage is $32,060 increasing to a mid-career wage of $44,298

Spark your interest:
The diesel industry is experiencing a shortage of technicians as older workers retire and ongoing advances in technology require new skills and training. The challenges in diesel technology vary daily, with work that cannot be done by machines or robots. Demand for diesel technicians is strong in the Fargo Moorhead area and even stronger in large metropolitan areas. Most employers offer excellent pay and benefit packages, along with in-house or company-sponsored and paid training to keep employees current with the latest technology.

Our advisors in business and industry:
Bobcat, Butler, CNH, Case IH, Cummins, Farmers Implement & Irrigation, Freightliner, General Equipment, Interstate, Maney IH, Midland, Nelson, New Holland, Peterbilt, RDO, Swanston, Titan Machinery, Valley Express, West Plains Implement, Wallwork

M State Grads Are High-Earners!
The most recent Brookings Institute study on mid-career earnings shows that M State grads are among the Top 10 two-year grads in the whole country.
Spark your interest:
M State’s Electrical Line Worker Technology program, created more than 50 years ago, is well-respected within the industry, with graduates working for electric utilities nationwide. Industry partnerships ensure students are learning the skills needed by employers, and the 90-acre Wadena training site allows students to practice pole climbing, line construction and bucket-truck operation. Together, the program’s instructors and lab assistant have more than a century of experience in the profession. The Electrical Line Worker Technology diploma is offered in both Wadena and Baudette.

Our advisors in business and industry:

$2000 Loan Repayment
A $2,000 Direct Loan at 4 percent interest will be repaid in 44 months at $50/mo.

Spark your interest:
M State’s Electrical Technology program is well-respected within the industry, and students are recruited by employers locally and throughout a multi-state region. Instructors – all graduates of the M State program themselves – have extensive experience in the field as master electricians and contractors. The combination of lecture and hands-on training gives students a strong foundation for their electrician apprenticeship. Students in the program earn 2,000 hours toward their Minnesota Class A journeyman status through their coursework. Demand in the industry is strong and expected to grow.

Our advisors in business and industry:
BSE, Beltrami Electric Cooperative, Bergstrom Electric, Dakotas JATC, Douglas Machines, Dutch’s Electric, Fargo South High School, Frazee Electric, Friesen’s Inc., Hand Electric, IBEW, JC Electric, JDP Electric, Lamb Weston/RDO Frozen, Magnum Electric, Mark’s Electric, Melrose Electric, Minnesota Electric Supply/BSE, Moorhead Electric, NECA, Tri-County Hospital, Tuffy’s, Van Enk Electric, Vinco Electric, Zenergy
Spark your interest:
Demand is high for trained technicians in the natural gas industry, where production has increased 48 percent since 2005, and it’s expected that 50 percent of the current workforce will retire by 2020. M State’s Gas Utility and Construction Service, the only diploma program of its kind in Minnesota and the Dakotas, partners with energy companies throughout the region to teach skills needed by employers. Students operate industry equipment on M State’s 90-acre training field and get hands-on training in creating and installing gas distribution systems.

Our advisors in business and industry:
Arvig, City of Perham, Great Plains Natural Gas, Greater Minnesota Gas, Groebner, MP Technologies, Michels Pipeline Construction, Midwest Energy Association, Minnesota Energy Resources, NPL Construction, Q3 Contracting Inc., Xcel Energy

**Gas Utility Construction and Service Diploma**
Wadena

32 CREDITS
Program Length
1 year, 32 credits
$8,785
Total estimated program cost
$7,809

Typical starting wage is $27,942 increasing to a mid-career wage of $44,937

Job Opportunities include
- Gas Service Technician
- Meter and Regulator Technician
- Gas Pipe Fuser
- Utility Locator
- Directional Drill Operator
- Cathodic Protection Specialist

Labor Outlook 16% increase over 10 years

New Program Placement rate not yet available

Similar M State Programs you might like
- Electrical Line Worker Technology
- Electrical Technology
- HVAC/R
- Plumbing Technology

**HVAC/R Diploma**
Moorhead • Wadena

36 CREDITS
Program Length
1 year, 36 credits
$8,785
Total estimated program cost

Typical starting wage is $33,323 increasing to a mid-career wage of $49,609

Job Opportunities include
- HVAC/R Service Technician
- HVAC/R Installation Technician
- HVAC/R Wholesale Rep
- HVAC/R Manufacturing

Labor Outlook 22% increase over 10 years

Similar M State Programs you might like
- Electrical Line Worker Technology
- Electrical Technology
- Gas Utility Construction and Service
- Plumbing Technology

Spark your interest:
The heating, ventilation and air conditioning/refrigeration industry anticipates a strong demand for workers in the coming seven years with the retirement of 300,000 industry professionals. This is a hands-on program, with students spending 75 percent of their time training in labs and in the field, and graduates are ready to work as a service person or installer, or on retrofitting projects. Area employers are offering sign-on bonuses and tuition reimbursement for program graduates. Students have the opportunity to earn national Environmental Protection Agency refrigeration certification during the course of their studies.

Our advisors in business and industry:
All Seasons, Ellingson Plumbing & Heating, Essers Plumbing & Heating, Express Central, Greens Plumbing & Heating, H&A Thompson & Son, Samuelson & Laney Plumbing & Heating, St. Cloud Refrigeration

Facts on Fire
Affordable Education!
Last year, M State awarded $1.27 million in Minnesota State Grants to 1,152 students.

100% of program graduates find education-related employment

16% increase over 10 years
Spark your interest:
Graduates of M State’s Plumbing Technology program are finding varied opportunities nationwide in locations as far away as Alaska and Hawaii. Plumbing courses are online with a weekly evening lab in Moorhead, so students can work full-time in their current job or get hands-on experience in a plumbing-related position while earning a Plumbing Technology diploma. Graduates become apprentice plumbers and can advance to journeyman and master licenses, opening up opportunities to own and operate their own businesses. Pay, benefits and job security are excellent.

Our advisors in business and industry:
Ferguson Enterprise, Grant’s Mechanical, Home Heating A/C & Plumbing, Laney’s Inc., Moorhead Plumbing & Heating, Peterson Mechanical, Precision Plumbing, Thoreson Plumbing

Spark your interest:
The Cardiovascular Technology program prepares students to work as cardiovascular technologists, assisting physicians in diagnosing and treating cardiac, peripheral vascular, neurovascular and electrophysiological conditions. Courses are cutting-edge, with students using current technology, physiological and diagnostic equipment, and therapeutic procedures. During their final semester, students gain hands-on experience in the region’s cardiac catheterization labs. M State’s program was created in response to industry need in the region, and demand in the industry is high.

Our advisors in business and industry:
Altru, Essentia Health, Sanford Health

Facts on Fire
Tuition-Free Education!
Last year, more than 2,270 M State students had their tuition and fees covered entirely by grant aid.
**Facts on Fire**

**Free Aid!**

M State awarded more than $9.3 million in grant aid last year!

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**Dental Hygiene AAS**

**Moorhead**

- **Program Length**: 3 years, 88 credits
- **Total estimated program cost**: $23,308
- **Typical starting wage**: $54,989
- **Increase to mid-career wage**: $66,903
- **95% of program graduates find education-related employment**
- **Labor Outlook**: 13% increase over 10 years

**Job Opportunities** include

- In addition to employment as a dental hygienist in clinical roles, a dental hygiene degree can lead to opportunities in corporate sales, research and administration, public health, education, administration, product development and sales, and independent clinical practice.

**Similar M State Programs you might like**

- Dental Assisting
- Dialysis Technician
- Medical Laboratory Technology
- Nursing
- Pharmacy Technology
- Phlebotomy Technician
- Radiologic Technology
- Surgical Technology

**Spark your interest:**

One evening each week, dental hygiene students provide direct patient care in the M State Community Dental Clinic, giving students valuable hands-on experience working with a variety of patients. Equipment in M State’s dental clinic is state-of-the-art. Our program is accredited by the Commission on Dental Accreditation of the American Dental Association. A dual enrollment agreement with Metropolitan State University in St. Paul means M State Dental Hygiene students can simultaneously receive an associate degree and a bachelor’s degree on the M State campus by taking bachelor’s degree courses online.

**Our advisors in business and industry:**

Dental Care, Dr. B. Dentistry, Smile Care Family Dentistry, South University Dental Associates

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**Health Information Technology/Coding AAS**

**Online**

- **Program Length**: 2 years, 64 credits
- **Total estimated program cost**: $17,449
- **Typical starting wage**: $30,506
- **Increase to mid-career wage**: $42,295
- **71% of program graduates find education-related employment**
- **Labor Outlook**: 15% increase over 10 years

**Job Opportunities** include

- Data Analyst
- Coding Professional
- Health Information/Medical Records Admission
- Medical Office Administrator/Manager
- Quality Improvement Analyst
- Release of Information Specialist
- Reimbursement Specialist

**Spark your interest:**

Careers in Health Information Technology/Coding offer opportunities in the health care field without requiring direct patient care. Health information professionals use their knowledge of information technology and records management to link clinicians, administrators, technology designers and information technology professionals. Regulations and technologies are constantly evolving, and demand is on the rise; students in the program gain experience in science, management, law and computers. The program is accredited by the Commission on Accreditation for Health Information and Information Management.

**Our advisors in business and industry:**

Blue Cross Blue Shield, Essentia Health, Lake Region Healthcare, Pediatric Therapy Partners, Sanford Health, Sanford Health Clinical Research, Veterans Administration

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**Facts on Fire**

**Earn While You Learn!**

Just check the “Yes, I’m Interested in Work-Study Funds” box on the FAFSA.
Spark your interest:
The MLT profession anticipates above-average growth as increased prenatal testing and an aging population lead to a greater need for diagnosis of medical conditions through laboratory procedures. M State offers its MLT program in a flexible combination of online courses and on-campus labs, making it possible for working students to complete the degree. MLT students spend 20 weeks in affiliate hospital labs gaining valuable hands-on experience. The program is accredited by the National Accreditation Agency for Clinical Laboratory.

Our advisors in business and industry:
Essentia Health, Lake Region Healthcare, Lakewood Health System, Sanford Health, St. Francis Health Care, St. Joseph’s Area Health Services, Tri-County Hospital

Learn more. Earn more.
Learn more about all of M State’s programs. Visit minnesota.edu/programs.
Spark your interest:
West central Minnesota expects a nursing shortage of nearly 1,500 registered nurses in the next 10 years, so the job market for graduates is strong. The M State Nursing program works closely with health care facilities throughout the region, and community partners seek out our graduates. The Generic Program is designed for students with no previous nursing experience who are seeking to become registered nurses, and the Advanced Standing Option is for licensed practical nurses seeking to become registered nurses.

Our advisors in business and industry:
Battle Lake Good Samaritan, Becker County Public Health, Bethany Homes, Broen Memorial Home, Cancer Care & Research Center, Children’s Corner, Community Behavioral Health Hospital, Diamond Willow, Ecumen, Elder’s Home, Essentia, Fair Oaks Lodge, Fergus Falls Community Addiction Recovery Enterprise, Fergus Falls School District, Golden Living Center, Good Samaritan, Green Pine, Lake Region Healthcare, Lakeland Home Care and Hospice, Lakewood Health System, Lutheran Memorial, MSUM Nursing, Mahnomen Health Center, Mahube Headstart, Mill Street Residence, New Dimensions Home Care, Perham Health, Pioneer Care, Prairie St. Johns, Rural Minnesota CEP, Sanford Health, Sebeka School District, Sunnyside Care Center, Tri-County Hospital, Veterans Administration, Vibra Health Villa Maria, Workforce Center

Registered Nurse
Associate Degree in Nursing
Detroit Lakes • Fergus Falls • Moorhead (except Generic) • Wadena

64
Program Length
Generic: 2 years, 64 credits
Advanced Standing: 1 years, 32 credits

98%
of program graduates
find education-related employment

$19,187
Total estimated program cost
Generic Option

$11,259
Advanced Standing Option

Typical starting wage is $48,089 increasing to a mid-career wage of $65,893

17%
Labor Outlook
increase over 10 years

98%
of program graduates
find education-related employment

Surgical Technology AAS
Moorhead

60
Program Length
2 years, 60 credits

$14,080
Total estimated program cost

Typical starting wage is $34,208 increasing to a mid-career wage of $43,694

16%
Labor Outlook
increase over 10 years

Surgical Technology

New Program
Placement rate not yet available

Similar M State Programs
you might also like
Cardiovascular Technology – Invasive
Dental Assisting and Hygiene
Dialysis Technician
Medical Laboratory Technician
Nursing
Pharmacy Technology
Phlebotomy Technician
Radiologic Technology

Surgical Technology

Facts on Fire

$10,000 Loan Repayment
A $10,000 Direct Loan at 4 percent interest will be repaid in 120 months at $100/mo.

Spark your interest:
Every area of the body is associated with a surgical specialty. While surgical technologists train to assist in all types of surgery, many choose to specialize in one or more surgical fields. In addition to training in surgical procedures, surgical technologists train in basic patient care in the operating room. The job is rewarding, as surgical technologists care for patients who are under anesthesia – when they are most vulnerable and can’t speak or care for themselves. There are job opportunities for surgical technologists with hospitals, freestanding surgical centers and surgical supply and instrument corporations.

Our advisors in business and industry:
Essentia Health, Sanford Health, Veterans Administration

Job Opportunities include
Certified Surgical Technologist
Operating Room Technician or Assistant
Scrub Tech
Surgical Assistant
Surgical Supply Specialist
Surgery Scheduler

$10,000 Loan Repayment
A $10,000 Direct Loan at 4 percent interest will be repaid in 120 months at $100/mo.
Learn More at M State!

Summer term is June 5* through July 28.

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<td>ACCT 1108</td>
<td>Business Math and Calculators</td>
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<tr>
<td>Administrative Support</td>
<td>ADM 2240</td>
<td>Administrative Office Professional Internship II</td>
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<td>Architectural Technology</td>
<td>ARCH 2218</td>
<td>Architectural Internship</td>
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<td>Art</td>
<td>ART 1110</td>
<td>Introduction to Art</td>
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<td>Biological Sciences</td>
<td>BIOL 1104</td>
<td>Biology of Human Concerns</td>
<td>3</td>
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<td>Business Management</td>
<td>BUS 2204</td>
<td>Principles of Management</td>
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<td>Chemistry</td>
<td>CHEM 1100</td>
<td>Fundamental Concepts of Chemistry</td>
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<td>Civil Engineering Technology</td>
<td>CIVL 2230</td>
<td>Civil Engineering Tech Internship</td>
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*Some technical program courses begin May 10. Please refer to the M State class schedule for specific summer start dates, available online at: http://www.minnesota.edu/class-schedules/#/.
### English Language Learners

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<td>Women in the Humanities</td>
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<td>HUM</td>
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### Marine Engine Technology

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<td>Elementary Algebra I</td>
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### Medical Administrative Assistant

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### Nursing

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### Philosophy

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### Radiologic Technology

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<td>Fundamental Concepts of Radiologic Technology</td>
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### Sociology

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### Theatre Arts

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### Women's Studies

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**Fall term is August 21 through December 15.**

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### Accounting

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<td>Payroll</td>
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<td>ACCT</td>
<td>Business Math and Calculators</td>
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<td>Managerial Accounting Lab</td>
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<td>Desktop Publishing</td>
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<td>Business Communications I</td>
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<td>Engines I</td>
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Construction
BLDG 1114 Blueprint Reading I ................................................. 2

Construction Management
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CONM 1102 Site/Building Layout ................................................ 2
CONM 1104 Construction Management Principles ....................... 2
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COSM 1000 Principles and Practices ........................................... 3
COSM 1117 Shampooing and Rinsing ........................................ 1
COSM 1119 Haircutting ............................................................. 1
COSM 1129 Hairstyling ............................................................. 1
COSM 1161 Nail Structure and Growth ........................................ 1
COSM 1179 Minnesota Cosmetology Laws and Rules .................. 1
COSM 1200 Salon Practicum ....................................................... 1-18
COSM 2100 Chemical Texture Services ...................................... 1
COSM 2200 Manicuring/Pedicuring .......................................... 1
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CRJU 1102 Policing and Practices ............................................. 3
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CRJU 1117 Special Topics In Criminal Justice .............................. 3
CRJU 2201 Criminal Law .......................................................... 3
CRJU 2209 Criminal Investigations ........................................... 3

Culinary Arts
CULN 1102 Intro to Foodservice Preparation ................................ 4
CULN 1104 Stocks, Saucis and Soups ........................................ 2
CULN 1106 Culinary Foundations Lab A ..................................... 6
CULN 1118 Cafe Lunch Foundations .......................................... 5
CULN 1120 Kitchen Math, Formulas and Spreadsheets ............... 1
CULN 1122 Sanititation Certification ........................................... 1
CULN 2202 Meats .................................................................... 2
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DENT 1102 Dental Anatomy ....................................................... 2
DENT 1104 Dental Health Care Providers II .................................. 1
DENT 1106 Dental Radiology Lecture ....................................... 3

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DNAS 1106 Bioclinical Science .................................................. 3
DNAS 1210 Radiology Lab ....................................................... 1

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DNHY 1110 Dental Hygiene Principles I ..................................... 2
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DNHY 1118 Oral Pathology ....................................................... 2
DNHY 2210 Dental Hygiene Principles IV ................................... 2
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DSET 1101 Software Systems in Transportation ......................... 2
DSET 1106 Fuel Systems .......................................................... 2
DSET 1112 Hydraulics I ............................................................ 4
DSET 1114 Vehicle Brakes ....................................................... 3
DSET 1124 Diesel Shop Management ........................................ 1
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DSET 2214 Suspension & Alignment .......................................... 3
DSET 2218 Advanced Fuels ..................................................... 3
DSET 2242 Advanced Engines and Fuel Systems ...................... 6

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DCNH 2242 Advanced Engines and Fuel Systems ...................... 6

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MCDD 1114 Manufacturing Process ......................................... 2
MCDD 2112 Geometric Dimensioning and Tolerancing ............. 2
MCDD 2200 Advanced Modeling with Solidworks ..................... 3
MCDD 2204 Mech Engineering Drawing III ................................ 4
MCDD 2210 Advanced Modeling with Inventor ....................... 3
MCDD 2230 3D Printing and Prototyping ................................. 2
MCDD 2246 Tool Design .......................................................... 3

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ECON 2222 Microeconomics ................................................... 3

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ELWT 1104 Electrical Structure Installation ............................... 5
ELWT 1106 Climbing Electrical Structure .................................. 4
ELWT 1108 Construction of Overhead Structures ..................... 3

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ELEC 1102 Intro to Electrical Circuit Theory ............................. 4
ELEC 1104 Introduction to National Electrical Code .................. 2
ELEC 1107 Intro to Residential Wiring ..................................... 3
ELEC 1114 National Electrical Code .......................................... 2
ELEC 1122 Intro to Electrical Materials ..................................... 1
ELEC 1124 Intro to Electrical Blueprint Reading ....................... 2
ELEC 2202 Heating/cooling Controls ......................................... 3
ELEC 2205 Introduction to Commercial Wiring ......................... 3
ELEC 2206 Introduction to Motor Control Applications ............... 3
ELEC 2208 Programmable Logic Controllers ......................... 2
ELEC 2211 Electronic Motor Control ........................................ 3
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Minnesota State Community and Technical College
### English
- **ENGL 0096** Reading and Writing Strategies ...................................... 6
- **ENGL 0097** Express English Strategies ........................................ 3
- **ENGL 0098** Accelerated English ...................................................... 3
- **ENGL 1101** College Writing .............................................................. 3
- **ENGL 1101** College Writing .............................................................. 3
- **ENGL 1205** Writing About Literature .............................................. 3
- **ENGL 1210** Writing About Current Issues ....................................... 3
- **ENGL 1215** Professional and Technical Writing ................................ 3
- **ENGL 2200** Introduction to Creative Writing .................................... 3
- **ENGL 2230** Environmental Literature ............................................. 3
- **ENGL 2235** Introduction to Literature: Drama .................................. 3
- **ENGL 2236** Introduction to Literature: Novel .................................. 3
- **ENGL 2238** Literature, Illness, and the Human Condition ................. 3
- **ENGL 2239** Nature Writers ............................................................... 3
- **ENGL 2302** American Ethnic Literature .......................................... 3
- **ENGL 2323** Horror and Supernatural Fiction .................................. 3

### English for Academic Purposes
- **EAP 0095** Editing Strategies I .......................................................... 2
- **EAP 0096** Reading Strategies I .......................................................... 2

### English Language Learners
- **ELL 0050** English Language Learner Foundations .......................... 4
- **ELL 0060** English Language Learner Reading .................................. 3
- **ELL 1060** English Language Learner Writing I .................................. 4
- **ELL 1080** English Language Learner Writing II .................................. 3
- **ELL 1175** English Language Learner Listening Comprehension and Speaking .................................................. 3

### Engineering
- **ENGR 2220** Engineering Mechanics II ........................................... 3

### Engineering Technology
- **ENGT 1118** Construction and Manufacturing Math .......................... 3
- **ENGT 1126** Engineering Graphics .................................................... 3
- **ENGT 1134** Office Systems and Equipment ........................................ 3

### Entrepreneurship
- **ENTR 1100** Introduction to Entrepreneurship .................................. 3
- **ENTR 1400** Opportunity Analysis ..................................................... 3
- **ENTR 2200** Entrepreneurial Field Studies ........................................ 3

### Equine Science
- **EQSC 1001** Introduction to Equine Science ...................................... 1
- **EQSC 1050** Equine Anatomy ............................................................ 1
- **EQSC 1103** Stable Operations I ......................................................... 1
- **EQSC 1140** Western Horsemanship ................................................ 3
- **EQSC 1150** Fundamentals of Riding Instruction ................................ 2
- **EQSC 1190** Farrier Science ............................................................... 2
- **EQSC 1200** Equine Events Management .......................................... 1
- **EQSC 2501** Equine Internship ............................................................ 6

### Fire Department Company Officer
- **FIRE 1100** Intro to Fire Service ....................................................... 2
- **FIRE 1106** Firefighter I and II .......................................................... 3
- **FIRE 1108** Firefighter I & II Skills ..................................................... 4
- **FIRE 1150** HazMat Operational ........................................................ 3

### Gas Utility and Construction
- **GAS 1000** Gas Utility Field Training I .............................................. 4
- **GAS 1004** Gas Utility Field Training II ............................................. 4

### Graphic Design Technology
- **GDTC 1100** Macintosh Production Processes .................................. 3
- **GDTC 1113** Design & Layout I .......................................................... 3
- **GDTC 1126** Digital Photography ..................................................... 3
- **GDTC 1134** Electronic Drawing I ..................................................... 3
- **GDTC 2203** Electronic Image Manipulation ...................................... 3
- **GDTC 2212** Design & Layout II ....................................................... 3
- **GDTC 2244** Advanced Electronic Imaging ....................................... 3
- **GDTC 2278** Digital Pre-Flight .......................................................... 3

### Health
- **HLTH 1100** Introduction to Nutrition .............................................. 2
- **HLTH 1110** Introduction to Anatomy and Physiology ....................... 3
- **HLTH 1116** Medical Terminology .................................................. 3
- **HLTH 2208** Pathophysiology ........................................................... 3
- **HLTH 2215** EMT Basic ................................................................. 6

### Health Care
- **HCCC 1000** Healthcare Core Curriculum ....................................... 4
- **HCCC 1001** Nursing Assistant Skill Set ........................................... 2

### Health Information Technology
- **HITM 1150** Introduction to Health Care Delivery ................................ 3
- **HITM 2204** Fundamentals of Electronic Health Records .................... 3
- **HITM 2211** Basic Pharmacology for Coders .................................... 2
- **HITM 2216** Introduction to Procedure Coding .................................. 3
- **HITM 2263** Reimbursement Systems .............................................. 3
- **HITM 2272** Professional Practice Experience Coding ....................... 2
- **HITM 2275** Health Record Documentation ..................................... 1
- **HITM 2282** Introduction to Diagnosis Coding .................................. 3

### Heating, Ventilation and Air Conditioning/Refrigeration
- **HVC 1102** Duct Fitting Construction ............................................. 3
- **HVC 1103** Electricity for HVAC ..................................................... 4
- **HVC 1128** HVAC Design & Installation .......................................... 5
- **HVC 2202** Air Handling ................................................................. 2
- **HVC 2290** Heating, Ventilating, and Air Conditioning Internship ........ 1

### History
- **HIST 1110** Western Civilization Ancient - 1400 ............................... 3
- **HIST 1111** Western Civilization: 1400-1600 .................................... 3
- **HIST 2211** American History: the Colonial Period ......................... 3
- **HIST 2212** American History: 19th Century .................................... 3
- **HIST 2213** American History: 20th Century .................................... 3

### Humanities
- **HUM 1101** Introduction to Humanities ........................................... 3
- **HUM 1105** Religion in the Humanities ............................................ 3
- **HUM 1110** Native American Culture .............................................. 3
- **HUM 2210** Introduction to Film ....................................................... 3
- **HUM 2236** Technology in the Humanities ....................................... 3

### Human Resources
- **HRES 1122** Human Resources Management ................................... 3
- **HRES 1126** Employee Processes .................................................... 3
- **HRES 1130** Benefits Administration .............................................. 3
- **HRES 2204** Policy Administration .................................................. 3
- **HRES 2224** Employee/Labor Relations ............................................ 3
- **HRES 2245** HR Internship ............................................................... 4
- **HRES 2254** Human Resource Systems and Portfolio Evaluation ........ 3

### Information Technology
- **ITSS 1100** Information Technology Help Desk ............................... 3

### Math
- **MATH 0055** Foundational Mathematics ......................................... 2
- **MATH 0085** Elementary Algebra I .................................................. 2
- **MATH 0095** Elementary Algebra II ................................................. 2
- **MATH 1000** Technical Math ............................................................. 3
- **MATH 1020** Intermediate Algebra .................................................. 3
- **MATH 1100** World of Math ............................................................. 3
- **MATH 1102** Finite Math ................................................................. 3
- **MATH 1114** College Algebra ............................................................ 4
- **MATH 1115** Functions/Trigonometry ............................................... 4
- **MATH 1122** Applied Calculus/Linear Algebra .................................. 3
- **MATH 1134** Calculus I ................................................................. 5
- **MATH 1213** Introduction to Statistics ............................................... 4
- **MATH 2231** Calculus III ................................................................. 4
| Marine Engine Technology                            | MRNT 2216 | Marine Advanced Fuel Systems .................................. | 3 |
| MRNT 2206 | EFI Systems ............................................................ | 3 |
| MRNT 2223 | Advanced Drives ........................................................... | 3 |
| MRNT 2233 | Engine Performance Rebuild and Diagnostics .................. | 4 |
| Marketing  | MKTG 1106 | Professional Selling ............................................... | 3 |
| MKTG 1110 | Customer Service .......................................................... | 3 |
| MKTG 1116 | Advertising and Promotion .............................................. | 3 |
| MKTG 2204 | Advanced Professional Selling ......................................... | 3 |
| MKTG 2214 | E Marketing ................................................................. | 3 |
| MKTG 2218 | Retail Management .......................................................... | 3 |
| MKTG 2230 | Marketing Research .......................................................... | 3 |
| MKTG 2232 | Marketing Management ...................................................... | 3 |
| MKTG 2242 | Computer Marketing Applications ....................................... | 3 |
| MKTG 2236 | Small Business Management ............................................... | 3 |
| MKTG 2290 | Management, Marketing and Sales Internship ..................... | 3 |
| Massage Therapy                                   | THPY 1110 | Massage Tech/Ethics .................................................. | 3 |
| THPY 1118 | Kinesiology ...................................................................... | 3 |
| THPY 1148 | Sports Massage Hydrotherapy .......................................... | 2 |
| Medical Administrative Assistant                  | ADMM 1110 | Medical Documentation Fundamentals .............................. | 4 |
| ADMM 1122 | Medical Office Procedures ............................................... | 4 |
| ADMM 1140 | Medical Language Applications ........................................ | 3 |
| ADMM 1150 | Medical Billing/Insurance ................................................ | 4 |
| ADMM 1160 | Beginning Medical Transcription ...................................... | 3 |
| ADMM 1200 | Medical Office Technology Tools ......................................... | 2 |
| ADMM 2122 | Medical Office Management .............................................. | 2 |
| ADMM 2130 | Medical Office Career Insight ......................................... | 2 |
| ADMM 2150 | Medicare Coding and Billing Applications ......................... | 3 |
| ADMM 2152 | Advanced Coding .................................................................. | 4 |
| ADMM 2154 | Hospital Billing ............................................................... | 2 |
| ADMM 2256 | Certified Professional Biller Examination ......................... | 1 |
| ADMM 2258 | CPC Examination Review .................................................... | 1 |
| ADMM 2320 | Medical Office Capstone .................................................... | 1 |
| Medical Interpreting                               | ASLM 1110 | Introduction to Medical Interpreting ............................... | 3 |
| ASLM 1114 | Introduction to Mental Health Interpreting ....................... | 3 |
| Medical Laboratory Technician                     | MLT 1110 | Phlebotomy Skills ....................................................... | 2 |
| MLT 1115 | Basic Laboratory Techniques ............................................. | 2 |
| MLT 2130 | Diagnostic Chemistry ........................................................ | 2 |
| MLT 2315 | Immunology ........................................................................ | 2 |
| MLT 2345 | Clinical Applications ........................................................ | 2 |
| Multicultural Studies                              | MCS 2230 | Multicultural America .................................................. | 3 |
| MCS 2231 | Multicultural America: Service Learning .......................... | 1 |
| Music                                              | MUSC 1113 | Beginning Class Voice .................................................. | 1 |
| MUSC 1114 | Beginning Class Piano ...................................................... | 2 |
| MUSC 1115 | American Musical Heritage ................................................ | 3 |
| MUSC 1116 | The World of Music .......................................................... | 3 |
| MUSC 1117 | Beginning Class Guitar ..................................................... | 2 |
| MUSC 1118 | Rock and Pop Music .......................................................... | 3 |
| MUSC 1120 | Introduction to Music Technology ....................................... | 3 |
| MUSC 1121 | Basic Theory and Musicianship .......................................... | 3 |
| MUSC 1123 | Sight Singing & Ear Training ............................................ | 1 |
| MUSC 1135 | Voice Ensemble .................................................................. | 1 |
| MUSC 1141 | Concert Choir .................................................................. | 1 |
| MUSC 1145 | Chamber Chorale ............................................................... | 1 |
| MUSC 1151 | Individual Voice Lessons .................................................. | 1 |
| MUSC 1162 | Choir Ensemble .................................................................. | 1 |
| MUSC 1164 | Concert Band .................................................................... | 1 |
| MUSC 1181 | Private Instrumental Lessons ............................................ | 1 |
| MUSC 1191 | Individual Piano Lessons ................................................... | 1 |
| MUSC 2223 | Sight Singing and Ear Training III .................................... | 1 |
| MUSC 2211 | Advanced Theory and Musicianship III ................................ | 3 |
| MUSC 2213 | Individual Voice Lessons .................................................. | 2 |
| MUSC 2281 | Private Instrumental Lessons ............................................ | 2 |
| MUSC 2291 | Individual Piano Lessons ................................................... | 2 |
| Nursing                                            | NURS 1400 | Introduction to Professional Nursing ............................... | 2 |
| NURS 1406 | Nursing Fundamentals I ...................................................... | 3 |
| NURS 1415 | Nursing Clinical I ............................................................. | 2 |
| NURS 1416 | Nursing Fundamentals II ..................................................... | 4 |
| NURS 1426 | Reproductive Health .......................................................... | 2 |
| NURS 2410 | Role Transition ................................................................. | 2 |
| NURS 2426 | Reproductive Disorders ....................................................... | 2 |
| NURS 2437 | Nursing Clinical III ............................................................ | 4 |
| NURS 2438 | Restorative Nursing I .......................................................... | 4 |
| NURS 2447 | Nursing Clinical III ............................................................ | 4 |
| NURS 2448 | Restorative Nursing II .......................................................... | 3 |
| NURS 2455 | Advanced Intravenous Therapy ............................................ | 1 |
| NURS 2464 | Nursing Leadership .............................................................. | 1 |
| NURS 2466 | Mental Health Nursing ........................................................ | 2 |
| Paralegal                                          | PARA 1101 | Intro to Paralegal ........................................................ | 3 |
| PARA 1102 | Research and Writing I ....................................................... | 3 |
| PARA 1105 | Criminal Law for Paralegals ............................................... | 3 |
| PARA 2204 | Real Property .................................................................... | 3 |
| PARA 2212 | Family Law ....................................................................... | 3 |
| PARA 2216 | Paralegal Internship ......................................................... | 3 |
| Personal Development                              | PDEV 1101 | Campus Life - Active Living ........................................... | 3 |
| PDEV 1102 | Contemporary Career Search ............................................... | 1 |
| PDEV 1113 | Career Life Planning ........................................................ | 2 |
| Pharmacy Technology                               | PHRM 1001 | Fundamental Concepts of Pharmacy .................................. | 3 |
| PHRM 2001 | Pharmacy Principles .......................................................... | 4 |
| PHRM 2010 | Experiential / Hospital ...................................................... | 3 |
| PHRM 2012 | Experiential / Retail .......................................................... | 3 |
| Philosophy                                         | PHIL 1200 | Applied and Professional Ethics ....................................... | 3 |
| PHIL 1201 | Ethics ............................................................................. | 3 |
| PHIL 1211 | Introduction to Philosophy ................................................ | 3 |
| Physical Education                                | PE 1109 | Wellness Skills ............................................................... | 2 |
| PE 1141 | Introduction to Strength Training ....................................... | 2 |
| PE 1190 | Varsity Football ............................................................... | 1 |
| PE 1194 | Varsity Golf .................................................................... | 1 |
| PE 1197 | Varsity Volleyball ............................................................. | 1 |
| PE 2100 | Introduction to Sports Management ...................................... | 3 |
| PE 2112 | Applied Coaching: Football ................................................ | 1 |
| PE 2114 | Applied Coaching: Volleyball ............................................. | 1 |
| PE 2145 | Advanced Strength Training ............................................... | 1 |
| PE 2190 | Varsity Football II ............................................................. | 1 |
| PE 2254 | Sports in Society ............................................................... | 3 |
| Physics                                            | PHYS 1105 | Fundamental Concepts in Physics ..................................... | 3 |
| PHYS 1107 | Physics of Music ............................................................... | 3 |
| PHYS 1401 | College Physics I .............................................................. | 4 |
| PHYS 1411 | University Physics I ........................................................... | 5 |
| Plumbing Technology                               | PLBG 1101 | Piping and Job Safety ..................................................... | 2 |
| PLBG 1103 | Plumbing Trade Tools .......................................................... | 2 |
| PLBG 1115 | Faucets and Fixtures .......................................................... | 2 |
| PLBG 1199 | Materials and Fittings .......................................................... | 4 |
| PLBG 1123 | Plumbing Code I ............................................................... | 3 |
| PLBG 1125 | Plumbing Lab I ................................................................. | 2 |
### Practical Nursing
- **PNSG 1508** Foundations of Adult Nursing Care I ........................................... 8
- **PNSG 1514** Clinical I Practical Nurse Foundations ........................................... 4
- **PNSG 1518** Foundations of Adult Nursing Care II ......................................... 5
- **PNSG 1520** Nursing Care of Women/Newborns/Children ............................. 2
- **PNSG 1522** Transition to Practical Nursing Practice ...................................... 1
- **PNSG 1524** Practical Nursing Mental Health .................................................. 2
- **PNSG 1528** Clinical II Practical Nursing ......................................................... 4

### Political Science
- **POLS 1120** American National Government .................................................. 3

### PowerSports Technology
- **PWST 1406** Chainsaws and Generators .......................................................... 2
- **PWST 2304** Motorcycles I ................................................................................. 3
- **PWST 2306** Snowmobile Drives & Suspensions .............................................. 3
- **PWST 2311** Motorcycles II .................................................................................

### Psychology
- **PSYC 1101** Human Interaction ........................................................................ 3
- **PSYC 1200** General Psychology ...................................................................... 3
- **PSYC 1201** Introduction to Mental Health Behavioral Aide ......................... 4
- **PSYC 2220** Abnormal Psychology .................................................................. 3
- **PSYC 2222** Developmental Psychology .......................................................... 3
- **PSYC 2226** Behavior & Environment Management........................................ 3

### Radiologic Technology
- **RADT 1112** Intro to Rad Tech/Patient Care .................................................... 4
- **RADT 1116** Radiographic Procedures I ............................................................. 5
- **RADT 1124** Radiographic Procedures II ............................................................ 4
- **RADT 2100** Radiographic Clinical III ................................................................. 5
- **RADT 2110** Radiographic Clinical IV ................................................................. 5
- **RADT 2224** Imaging Equipment ........................................................................ 4

### Refrigeration
- **REFR 2202** Commercial Refrigeration and Air Conditioning Principles ........ 4
- **REFR 2204** Commercial Refrigeration and Air Conditioning Lab ..................... 3
- **REFR 2206** Commercial Electrical Principles ................................................. 3
- **REFR 2208** Commercial Electrical Lab .............................................................. 3
- **REFR 2216** Refrigeration Internship .................................................................. 3

### Sign Language Interpreter
- **IPP 1112** Beginning ASL to English ................................................................. 3
- **IPP 1113** Beginning English to ASL ................................................................. 3
- **IPP 2214** Educational Interpreting ..................................................................... 2
- **IPP 2215** Topics in Interpreting ......................................................................... 1
- **IPP 2216** Practicum ......................................................................................... 1

### Social Work
- **SW 2250** Introduction to Social Work/Social Welfare ................................ 3

### Sociology
- **SOC 1111** Introduction to Sociology ............................................................... 3
- **SOC 1113** Social Problems ............................................................................... 3
- **SOC 2213** Sociology of the Family .................................................................... 3
- **SOC 2215** Criminology .................................................................................... 3
- **SOC 2217** Rural Society ................................................................................. 3
- **SOC 2222** Sociology of Agriculture ............................................................... 3

### Spanish
- **SPAN 2211** Intermediate Spanish .................................................................. 4

### Surgical Technology
- **SURT 1200** Introduction to Surgical Technology ........................................... 3
- **SURT 1210** Surgical Technology ...................................................................... 6
- **SURT 1230** Surgical Technology III ................................................................. 4
- **SURT 1250** Surgical Clinical I ............................................................................. 6
- **SURT 1255** Surgical Clinical II ......................................................................... 6

### Theatre Arts
- **THTR 1100** Introduction to Theatre ................................................................. 3
- **THTR 1125** Theatre Technical Practicum ......................................................... 2
- **THTR 1130** Stage Make-up ............................................................................... 3
- **THTR 1140** Stagecraft .................................................................................... 3

### Transportation
- **TRNS 1001** Fuel Systems I ............................................................................... 3
- **TRNS 1003** Off-Road Literature and Computer Systems ................................ 2
- **TRNS 1005** Off-Road Electrical Systems ......................................................... 2
- **TRNS 1006** Off-Road Vehicle Maintenance ..................................................... 4
- **TRNS 1102** Intro to Transportation ................................................................... 2
- **TRNS 1104** Transportation Electronics ............................................................ 3

### Web Development
- **WEBD 1000** Foundations of Web Design ....................................................... 3
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**Interested in M State?**

We offer more than 70 programs and 120 degree options on our four campuses and through online delivery. We can help you get on track to learn more to earn more.

Go to minnesota.edu/interest to request more information.

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To schedule a visit, call 877.450.3322 or sign up online at minnesota.edu/visit.

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We invite you to become part of the M State family!

Admission to M State starts with the online application available at minnesota.edu/admissions.
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Transfer degrees that will save you $$ on your way to NDSU, UND, MSUM, Concordia or anywhere.

The smart start to your four-year degree.

Master’s-level or higher instructors.

On campus and/or online.

Full time or part time.

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Our tuition is already an exceptional value, and M State grants, scholarships and special programs help make earning a degree even more affordable.

M State has options that make college possible

Resident: $159.15 per credit
Non-resident: $159.15 per credit
Online: $197 per credit
Tuition rates 2016-17 academic year

The Most Affordable Option*
Average annual tuition and fees for full-time students (before scholarships and grants)

<table>
<thead>
<tr>
<th>Four-Year Institutions</th>
<th>Two-Year Institutions</th>
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<tbody>
<tr>
<td>Private Non-Profit Colleges and Universities</td>
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</tr>
<tr>
<td>University of Minnesota</td>
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<tr>
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<td>$7,989</td>
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<tr>
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</tbody>
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More than 2200 students – 51 percent of our degree-seeking students – are attending M State tuition-free in 2016-17

* Data from 2015-16 Guide to Minnesota State Colleges and Universities
The Alliss Two-Year Opportunity Grant is available to students who have financial need and are enrolled in AA, AS, AAS, AFA, diploma, certificate and Minnesota Transfer Curriculum courses designed to transfer to baccalaureate programs. Students who enroll at M State are automatically considered for the Alliss Grant as part of the financial aid award process; qualified students will be contacted and asked to complete an application. Awards range from $350 to $1,100 per year and may be renewable. Students who already earned a baccalaureate degree are not eligible.

If you have financial need and qualify for the maximum Federal Pell Grant, your tuition and fees for full-time attendance would be covered by that grant!

FAFSA
The 2017-2018 FAFSA is available!
Apply Soon!

Learn more about M State’s financial options at minnesota.edu/lmpl.

Business Sponsorships
Business partners in some high-demand career fields have created sponsorships that support students in specific M State degree and diploma programs. Sponsored students may receive reimbursement for tuition and tools, as well as employment during the summer and the academic year.

For more information on sponsorship opportunities and requirements, please check program information online at minnesota.edu/sponsorships.
The Post-Secondary Enrollment Options (PSEO) program allows high school students to take college courses (taught by college or university faculty members) on a college campus or online. Tuition and the cost of textbooks are paid by the school district. Students who participate in PSEO for their last two years of high school and complete the required number of credits are able to graduate concurrently from high school and M State with an associate degree.

To be eligible, high school juniors and seniors must meet minimum academic criteria. If you are interested in PSEO, talk to your high school guidance counselor and college admissions staff to determine if you qualify and learn the specific deadlines for enrollment. It is not necessary to demonstrate financial need in order to qualify for PSEO.

Learn more at minnesota.edu/pseo.

M State’s Power of YOU means two years of tuition-free college for eligible students, allowing Power of YOU participants to transfer to a four-year college or university or enter the workforce with little or no student debt. Using scholarship funds contributed by community donors, Power of YOU will pay for all tuition costs that are not covered by state and federal grants. Along with financial assistance, Power of YOU helps students reach their academic and career goals with advising and academic support services.

Following a successful program pilot during the 2016-17 academic year, M State will begin accepting Power of YOU applications in February 2018 for Fall Semester 2018. Power of YOU participants are selected on the basis of financial need and other eligibility requirements. Learn more at minnesota.edu/powerofyou.

M State’s up2U program rewards students who plan to earn an M State AA, AFA or AS transfer degree and transfer to an up2U partner university to complete a four-year degree. Through up2U, students can earn a scholarship award of between $250 and $18,000 for one academic year at one of M State’s up2U partner universities.

To qualify, students need to enroll as a new student at M State (sorry, current and transfer students don’t qualify) and meet specific criteria. Participation in up2U is not based on financial need. Prior to graduating from M State, students also must take the CLA+ performance task assessment.

The amount of the scholarship award will be based on the student’s GPA and score on the CLA+.

For more information, call 877.450.3322 or visit minnesota.edu/up2u.
NECA Supports Electrical Technology at M State

Since 2015, the Dakotas Chapter of the National Electrical Contractors Association has donated more than $55,000 in scholarship and endowment funds to the Moorhead Community and Technical College Foundation in support of the Electrical Technology program at M State.

“We support the Electrical Technology program at M State because we recognize the urgent need for skilled electricians throughout the industry,” said Curt Kasper, assistant executive director and manager of career development for Dakotas Chapter NECA.

“For every journeyman electrician retiring, there is only about a half of a body to fill that void. Nationwide, we need 60,000 new electricians every year through 2020 to keep the labor pipeline full. The need is there, and M State has a strong program that produces quality graduates to help satisfy the demand.”

The Dakotas Chapter NECA, established in 1949, currently has 42 electrical contractor members throughout North and South Dakota and western Minnesota. It is one of 119 NECA chapters in the United States. NECA is the voice of the $130 billion electrical contracting industry that brings electrical power, lighting and communications to buildings and communities across the United States.

Moorhead Community and Technical College Foundation awarded $170,290 in scholarships for the 2015-16 academic year.

Moorhead Community and Technical College Foundation invites you to the

Sixth Annual

GOLF Scramble

WEDNESDAY, JUNE 28 at the Hawley Country Club

1 pm Shotgun start • 6 pm Dinner and reception

• $65 for 18 holes and 1/2 cart • $300 for hole sponsorship • $500 for hole sponsorship and four players

Proceeds benefit the Dan Sperling Realize Your Dream Endowment

For more information or to register, contact Lacey Hoffmann at 218.299.6545 or lacey.hoffmann@minnesota.edu
Kayla Simon, a 2010 graduate of M State in Detroit Lakes with degrees in Liberal Arts and in Sales, Marketing and Management, is now back at M State. After graduating from Frazee-Vergas High School, Kayla enrolled on M State’s Moorhead campus, intending to earn a degree and join the workforce as soon as possible. Life does not always go according to plan, though. She had enlisted in the Minnesota National Guard in 2000, and in February 2004 – during her final semester at M State – she was called to active military duty and left the following month.

Kayla spent 19 months in Iraq, where she met her husband-to-be, and came home with a different outlook on life, a new plan and a need for some time to adjust to civilian life. She and her husband married, had two sons and moved back to Minnesota in 2009.

Going back to college to get her degree was No. 1 on her list of things to do, and she soon graduated from M State with both her sales and AA degrees. After working for several years for a non-profit that serves veterans who are in crisis or homeless, Kayla enrolled at Minnesota State University Moorhead and completed her bachelor’s degree in social work in May 2014 and her Master of Social Work degree in December 2015.

“I can’t tell you how exciting it was to walk across the stage at graduation, knowing that I accomplished what I set out to do 13 years prior,” Kayla says.

Kayla’s husband, Darius, completed his criminal justice degree at M State in 2011. “The convenience of the four campuses allowed my husband to take most of his classes in Detroit Lakes and online before finishing in Moorhead, where the program is housed,” Kayla says. Since their return to Minnesota, they have also added two more children to their family.

In August 2016, Kayla had the opportunity to return to M State as a college social worker, serving both the Detroit Lakes and Wadena campuses. She works with students to connect them with community resources and helps break down basic needs barriers that may be keeping them from graduating.

One of her first initiatives at M State was to address the food insecurities that many students face. Kayla worked with a local church to create a partnership that brought Ruby’s Pantry to campus to serve college students and the Detroit Lakes community. This non-profit organization collects corporate surplus grocery items for monthly distribution in rural communities.

Kayla also brought together the local transit service and the campus Student Government Association, and the result is free bus rides for M State Detroit Lakes students.

Kayla sees her job as making connections for M State students. “It’s exciting to be a part of something truly meaningful and giving back to the community where I began,” she says.
FACF Making a Difference

Donor support allows foundation to award record scholarship amount

With the help of willing volunteers and generous donors, Fergus Area College Foundation is making a difference on the Fergus Falls campus of Minnesota State Community and Technical College. Whether it is awarding a scholarship, funding a student life activity or providing a faculty grant to enhance teaching and learning, the Foundation impacts students each and every day.

We are grateful to the donors who help us accomplish our work. During the 2016-17 academic year, the Foundation awarded more than $172,000 in scholarships to over 100 students. It is the largest amount the Foundation has awarded in its history.

Scholarships recognize accomplishments and excellence in students. Scholarships encourage students and remind them that someone believes in them and their potential. Scholarships can mean the difference between going to college and NOT going to college for students who are faced with financial challenges. Thank you for choosing to support our students.

The list that follows recognizes donors to Fergus Area College Foundation from January 1 through December 31, 2016.

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($10,000 or more)
Dell Charitable Trust
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Jack Armdal
Sharyn Anderson
Anonymous Donors
Barbara Bigwood
Carol and Markus Bischof
Mary Boeddeker Roers
Ron and Jody Brasel
Carrie and Matthew Brimhall

Fergus Falls Spartan alum, FACF is always interested in hearing about your professional and personal accomplishments and the achievements of your fellow alumni. Visit the Spartan alumni update site at facfmsstate.org and share your stories – include as much or as little information as you’d like! You also can find us on Facebook as Fergus Area College Foundation.
Meet Grace Cummings Pas, a 1996 graduate of the Electrical Technology program on M State’s Moorhead campus and founder and operator of Grace Electric in Fargo. She’s a graduate with a success story in a trade area that is typically dominated by men. In fact, the U.S. Department of Labor estimates that women make up only 2.4 percent of electricians nationwide.

Grace writes:

“Prior to raising my family, I had gained 13 years of experience working in management positions at retail stores in both Minnesota and Washington. But in the early 1990s I made a decision that forever changed my life and the lives of those around me. It was a simple decision to reenter the workforce after having stayed home to raise three children while my husband worked full-time and I worked part-time on weekends as a waitress to help supplement the income of our household. After years of this routine, I felt a need to change to a more fulfilling work experience.

At first when I started to apply for work it was very stressful, almost overwhelming, to realize I would be starting at the bottom of the employment ladder. In my early 30s, I did not have the mindset to prove myself over and over again. I had real world experience and something to contribute to a job.

My experience as a homemaker was the source of inspiration for what I had to do next. As a young family we had to live on a budget. It was a necessity for me to make, fix, repair or reinvent what we had to do to stay within our means. Then the day came when, while I was shopping, I saw a book on simple home wiring and bought it. I started with simple home improvements such as installing a ceiling fan, adding extra lights to the garage and fixing our water heater.

Eventually I was reading more and more bow-to manuals and found I enjoyed the accomplishments in making home repairs. My mind was made up: I decided that I wanted to become an electrician! It appealed to my nature, it gave me a sense of accomplishment that I knew wasn’t going to come from an entry-level position in another career and it was something that would distinguish me in the workforce.

In 1994, I began the process of enrolling at Northwest Technical College, now M State. Looking back, enrolling in the Electrical Technology program was the best decision I ever made.”

Grace has been in business for 12 years now and her son, Devlin, also decided to become an electrician after earning a bachelor’s degree in philosophy and his law degree. Grace and Devlin earn a sense of fulfillment from the hard work they do.

As for Grace, every day as an electrician is a great day!
An Added Benefit
Ecumen supports employees with M State scholarships

Meet Bobbi Jo Koons, an M State Practical Nursing graduate and the nurse assessment coordinator and lead nursing educator at Ecumen Detroit Lakes. Her warm smile is comforting to residents at Ecumen Detroit Lakes – and a bit contagious.

Bobbi’s position is a testament to her determination to further her education and earn a Bachelor of Science degree in nursing, which she completed in 2016.

She has strong ties to the Detroit Lakes area, being a 2000 Detroit Lakes High School graduate, 2002 M State graduate and an Ecumen employee since 2000. Bobbi was able to pursue her bachelor’s degree thanks to donor scholarships and the scholarship financial assistance program at Ecumen, a senior housing and services provider in 38 Minnesota communities and cities in seven other states.

In an effort to encourage more success stories like Bobbi’s, M State and Ecumen have teamed up to combat the increasing worker shortage, to develop a better-educated workforce and to address student loan debt. The two organizations work collaboratively to provide a loan-free scholarship program offered through Ecumen.

“When we started looking at the (Ecumen Detroit Lakes) workforce, it was like, ‘Hey, we have an opportunity (here),’” said Laura Boreen, who is the human resources director for Ecumen, a 2012 M State alumna and a Detroit Lakes Area College Foundation board director. Students who attend M State and work at Ecumen a minimum of 10 hours per week are eligible for scholarships that help pay tuition, books, fees and required supplies, plus reasonable childcare and travel expenses.

The hope of the collaboration is to increase the number of workers at the care facility and advance the educational opportunities of those employees. In the past, Ecumen has offered scholarships to employees taking classes at M State, but not like this. Ecumen has recently awarded the following scholarships:

- 2015-2016 academic year: Three M State students received combined awards totaling $7,500
- 2016 fall semester: Six M State students received combined awards totaling $20,430
- 2017 spring semester: Eight M State students received combined awards totaling $15,000

M State students needn’t be enrolled in the M State Nursing program to take advantage of the Ecumen scholarship program.

“This partnership goes well beyond a nursing degree,” Laura said. Students majoring in health career programs, business, accounting, culinary arts, sales and marketing, massage therapy, information technology and other programs may be eligible.

“This gives students like Bobbi a clear path. It shows them how you can grow within an organization,” said Karen Buboltz, director of student development services at M State Detroit Lakes, adding that it helps students get work experience in addition to graduating debt-free.

“The great thing, there is no deadline. The scholarships are open enrollment,” said Laura. “We will just continue paying the scholarships as they come in.”

For more information about the Ecumen scholarship program, contact the M State Support Center at 877.450.3322.

FACT

The Detroit Lakes Area College Foundation announces that a new student Adult Literacy Scholarship has been created with the support of M State faculty and the Detroit Lakes Kiwanis, Breakfast Rotary and Noon Rotary service clubs.
Ready to learn more about M State? Check out our programs, then schedule a campus visit. You’ll be able to ask questions and see all we have to offer!

minnesota.edu/programs
minnesota.edu/visit

Apply to M State and submit your application materials:
- High school/GED transcript
- Official college transcripts
- $20 application fee (if required)

minnesota.edu/apply

Complete your Free Application for Federal Student Aid (FAFSA) and check out the many ways you can lower the cost of college.

minnesota.edu/impl
FAFSA Code: 005541

Check your email and mailbox for a notification that you’re accepted at M State! We’ll also alert you if we are missing items required for acceptance.

Want to know right away if you’re accepted? Opt in for text alerts when you complete your application.

Next stop … registration!
(Your acceptance notification will indicate whether Accuplacer assessments are required. If they are, sign up at minnesota.edu/assessment.)

minnesota.edu/registration

You’re doing great! Prepare for the first day of classes by buying your course materials and books, and check out The Source and SpartanNet, your one-stop student portal.

minnesota.edu/SpartanNet
minnesota.edu/the-source

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