



## Career Cluster Connections Cover Page Health Science

Career Cluster: Health Science

Postsecondary Education Partnerships

### **Existing Postsecondary Education Partners:**

<http://dacac.com/sd-colleges.html>

Augustana University

- Athletic Training, Biology, Chemistry, Biochemistry, Exercise Science, Nursing

Avera Health

- Avera McKennan School of Radiologic Technology

Black Hill State University

- Exercise Science, Applied Health Sciences

Dakota State University

- Exercise Science, Health Information Administration, Health Information Technology, Respiratory Care

Dakota Wesleyan University

- Biology, Biochemistry, Nursing, Sport Exercise and Wellness

Lake Area Technical Institute

- Dental Assisting, Medical assisting, Medical Laboratory Technology, Nursing, Occupational Therapy Assistant, Physical Therapist Assistant, Med / Fire Rescue

Mitchell Technical Institute

- Human Services Technician, Licensed Practical Nursing, Medical Assistant, Medical Laboratory Technician, Medical Office Professional, Radiation Therapy, Radiologic Technology, Speech Language Pathology Assistant

Mount Marty College

- Biology, Chemistry, Exercise Wellness, Medical Laboratory Science, Nursing, Radiologic Technology



National American University

- Medical Assist, Medical Staff Services Mgmt, Pharmacy Technician, Therapeutic Massage, Health Care Management, Health Care Coding, Health Information Technician, Medical Staff Service Mgmt, Nursing, Veterinary Technician, Veterinary Assistant

Northern State University

- Biology, Chemistry, Human Performance & Fitness, Medical Laboratory Science, Physical Education

Oglala Lakota College

- Nursing, Life Science

Presentation College

- Athletic Training, Biology, Exercise Science, Nursing, Psychology, Radiologic Technology, Social Work

Sanford Health

- Medical Laboratory Science, Radiologic Technology

School of EMS- Paramedics Plus

Sinte Gleska University

- Nursing

Sisseton-Wahpeton Community College

- Licensed Practical Nursing

South Dakota State University

- Biology, Biotechnology, Biochemistry, Chemistry, Exercise Science, Health Education, Nutrition and Dietetics, Nursing, Pharmacy, Medical Lab Technician

South Dakota School of Mines

- Applied Biological Sciences, Biomedical Engineering



#### Southeast Tech

- Biomedical Equipment Technology, Cardiac Ultrasound Technology, Invasive Cardiovascular Technology, Vascular Ultrasound Technology, Diagnostic Medical Sonography, Insurance, Nursing (RN), Healthcare Office Specialist, Licensed Practical Nurse, Pharmacy Technician, Phlebotomy/Patient Care Technician, Surgical Technology

#### University of Sioux Falls

- Exercise Science, Medical Laboratory Science, Nursing, Paramedic Technology, Radiologic Technology, Sports Management

#### University of South Dakota

- Addiction Studies, Biology, Chemistry, Kinesiology and Sport Science, Health Sciences, Nursing, Dental Hygiene, Medical Laboratory Science, Medical Biology, Psychology, Social Work

#### Western Dakota Technical Institute

- Dental Assisting, Health Information Management Emphasis in Coding, Healthcare Technician, Medical Assisting, Medical Laboratory Technology, Paramedic, Pharmacy Technician, Phlebotomy/Laboratory Assistant, Practical Nursing Precision, Surgical Technology

#### **Potential Postsecondary Education Partners:**

Online and out of state partners, Minnesota West Community and Technical College, North Dakota State College of Science, North Dakota State University, University of Minnesota, Northeast Community College, Western Iowa Tech, Morningside College, Creighton University, Wayne State University, Southwestern Community College, Northwest Iowa Community College

#### **Dual Credit Opportunities:**

Biology Survey, General Biology, Chemistry Survey, Organic and Biochem Survey, Organic and Biochemistry, General Chemistry, Atomic and Molecular Structure, Dental Sciences, Dental Radiography, Preclinical Dental Sciences, Emergency Medical Technician, Workplace Communications, Heart Saver First Aid-CPR/AED, BLS CPR, Certified Nursing Assistant, Basic Anatomy Physiology, Medical Terminology, Anatomy Physiology for the Health, Health Care Human Relations, Medical Language, Applied Anatomy Physiology, Patient Care Techniques, Introduction to Patient Care, Medical Law and Ethics, Lifespan Development, Disabilities, Medical Laboratory Fundamentals, Medical Law Ethics, Psychology of Human Relations; General Microbiology, Phlebotomy Principles Practices, Pharmacology/Pharmaceutical Product, Human Anatomy Physiology, Math for



Pharmacy, Pharmacology, Psychology of Human Relations, Intro Sociology, Intermediate or College Algebra, Tech Writing or Composition 1, General Psychology, Fundamentals of Speech, Introduction to Surgical Technology, Computer Science  
<http://sdmylife.com/students/advanced-education-opportunities/>

**Work-Based Learning**

**Career Exploration:**

Course work; local interview with EMTs, paramedics, nurses, physicians, therapists, phlebotomy, medical lab techs, dentists, dental assistants, dental hygienists, veterinarian, or other health care professional of interest, internship or shadow program, career fairs, tech area career camps, college fairs, HOSA, Skills USA, scrubs camp, Sanford Youth Medical Explorers Program, Boy Scouts, Sanford PROMISE Community lecture series, Sanford PROMISE Scholars, USD Health Care Careers Summer Camp, SDSU Teen Ambassador of Health Summit, Jacket Rabbit Nurse Camp, Lake Area Tech Big Camp-Out healthcare emphasis,

**Intermediate Experiences:**

Job shadowing (nurses, lab techs, laboratory scientist, pathologist, physical therapists, occupational therapists, speech therapists, EMTs, patient care technicians, CNAs, doctors, dentists, veterinarians,), volunteer work (Nursing homes, hospitals, etc.)

**Capstone Experiences:**

Senior Portfolio/Project

\*Due to limitations of confidentiality, service and internship opportunities may be limited

INTEL/ISEF Science research projects – regional science fair, Sanford PROMISE Scholars Program

**Experiential Learning**

<p><b>Career and Technical Student Organizations and Key Activities (competitions, events, etc.):</b> SkillsUSA, HOSA</p>	<p><b>Course and CTE Standards Supported:</b> Health Science Careers I Health Science Careers II</p>
<p><b>Service Learning Opportunities/Organizations:</b> Volunteer work (nursing homes, hospitals) Job Shadowing, Mentorships, Workplace Tours</p>	<p><b>Course and CTE Standards Supported:</b> Health Science Careers I Health Science Careers II</p>
<p><b>Additional Experiential Learning Opportunities:</b> USD Healthcare Careers Summer Camp, SDSU Health Camp Brookings, Jackrabbit Nurse Camp Rapid City and Sturgis, Sanford Youth Medical Explorers Program, Boy Scouts Nursing Camps, Sanford Promise Community</p>	<p><b>Course and CTE Standards Supported:</b> Health Science Careers I Health Science Careers II</p>



Lecture Series, SDSU Teen Ambassador of Health Summit, Lake Area Tech Big Camp-Out	
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### Certification and Credentials

Certification/Credential	Recommended Prerequisite Courses	Pertinent Details (location of assessment, cost, test prep, etc.)
First Aid	None	Contact American Heart Association and Red Cross
Cardiopulmonary Resuscitation (CPR) (BLS)	None	Contact American Heart Association and Red Cross
Automated External Defibrillator (AED)	None	Contact American Heart Association and Red Cross
Certified Nursing Assistant	None	Contact SDHCA
Certified Pharmacy Technician	None	Contact PTCB
Emergency Medical Technician	None	Contact NREMT

### Key Resources:

**SDMyLife:** Provides information on dual credit opportunities

<http://sdmylife.com/students/advanced-education-opportunities/>

**Certified Nursing Assistant:** Provides information on the C.N.A. certification exam and process to

obtain that C.N.A. certification. <http://www.sdhca.org/cna/>

**Employability Skills Framework:** Provides information and resources for employability skills

<http://cte.ed.gov/employabilityskills/index.php/framework/index>

**Skills USA:** Provides information on opportunities for students through SkillsUSA

<http://www.skillsusasd.org/>

**American Heart Association (AHA):** Provides information and resources for first aid, CPR (BLS), and AED training for health care professionals.

<http://ahainstructornetwork.americanheart.org/AHA/ECC/classConnector.jsp?pid=ahaecc.classconnector.home>

**INTEL/ISEF Student Science:** The Intel International Science and Engineering Fair (Intel ISEF), a

program of Society for Science & the Public (the Society), is the world's largest international pre-college science competition.

<https://student.societyforscience.org/intel-isef>



**Pharmacy Technician Certification Board (PTCB):** Provides information on certification for the pharmacy technician program. <http://www.ptcb.org/>

**Health Occupations Student Organization (HOSA):** National student organization aimed at having students envision themselves as healthcare professionals through competitive events. <http://sdhosa.org/>

**National Registry of Emergency Medical Technicians (NREMT):** Provides information on certification process for EMT. <https://www.nremt.org/rwd/public/document/emt>

**Red Cross:** Provides information on availability of First Aid, CPR, and AED Training  
<http://www.redcross.org/lp/cpr-first-aid-aed-certification-hero?utm=a&device=d&scode=PSG00000E017&gclid=COK5yOTc80CFUFkghodv9IGmQ&gclsrc=aw.ds&dclid=CPb-k-Xc80CFcZCDAodVOYDDQ>  
<http://www.southdakotasafetycouncil.org/firstaid/firstaid.cfm>

**Sanford PROMISE:** Sanford Scholars, Community Lectures, shadow program, science discovery days, and biomedical research investigations.  
<http://www.sanfordresearch.or/education/k12students/sanfordpromisescholarsprogram/>

**HOTT Health Occupations for Today and Tomorrow:** Provides information on current and upcoming careers within healthcare.  
<Http://healthcareers.sd.gov/hottcareerstrends.aspx>