



# Health Science Career Cluster

Pathway	OCCUPATIONS RELATING TO THIS CAREER CLUSTER
<b>Biotechnology Research &amp; Development</b>	Research Scientist/Assistant • Microbiologist • Biostatistician • Cell Biologist • Biomedical Chemist • Geneticist • Genetics Lab Assistant • Quality Assurance Technician
<b>Diagnostic Services</b>	Clinical Lab Technician • Phlebotomist • Geneticist • Nutritionist • Magnetic Resonance (MR) Technologist • Radiologist • Pathologist • Exercise Physiologist
<b>Health Informatics</b>	Health Information Coder • Admitting Clerk • Transcriptionist • Medical Librarian • Public Health Educator • Ethicist • Medical Assistant • Epidemiologist
<b>Support Services</b>	Dietary Aide • Hospital Maintenance Engineer • Environmental Services Manager • Industrial Hygienist • Biomedical Engineer • Transport Technician
<b>Therapeutic Services</b>	Dental Assistant/Hygienist • Occupational Therapist • EMT/Paramedic • Physician • Licensed Practical Nurse • Veterinarian • Social Worker • Massage Therapist

HIGH SCHOOL COURSE REQUIREMENTS				
English	Math	Science	Social Studies	Physical Education
Four units required to graduate; including literature, composition, and speech.	Three units required to graduate	Three units required to graduate.	Three units required to graduate.	One unit required to graduate.
<b>Choices may include:</b>	<b>Choices may include:</b>	<b>Required Units:</b>	<b>Required Units:</b>	<b>Required Units:</b>
<input type="checkbox"/> English 9      05071	<input type="checkbox"/> Algebra I      11031	<input type="checkbox"/> Physical Science      13030	<input type="checkbox"/> U.S. History      15085	<input type="checkbox"/> Physical Education 1 unit      08030
<input type="checkbox"/> English 10      05072	<input type="checkbox"/> Geometry      11120	<input type="checkbox"/> Biology      13020	<input type="checkbox"/> American Government ½ unit <b>AND</b> 15111	<b>OR</b>
<input type="checkbox"/> English 11      05073	<input type="checkbox"/> Advanced Algebra      11032	<input type="checkbox"/> One additional unit of Science	<input type="checkbox"/> Economics ½ unit      15060	<input type="checkbox"/> Physical Education ½ unit <b>AND</b> 08030
<input type="checkbox"/> English 12      05074		<b>OR</b>	<b>OR</b>	<input type="checkbox"/> Health ½ unit      18010
		<input type="checkbox"/> Biology      13020	<input type="checkbox"/> Problems of Democracy 1 unit      15201	
		<input type="checkbox"/> Chemistry      13031		
		<input type="checkbox"/> Physics      13042	<b>Additional units may include:</b>	
			<input type="checkbox"/> Civics	
			<input type="checkbox"/> Geography	
			<input type="checkbox"/> Psychology	
			<input type="checkbox"/> World History	

Career and Technical Education Electives		Extended Learning Opportunities	
Three units of foreign or Native American language, fine arts, or career and technical education are required to graduate.			
Health Science Education	Business Education	School-Based:	Community Based:
<input type="checkbox"/> Nurse Assistant      07032	<input type="checkbox"/> Business Computer Applications      14024	<input type="checkbox"/> SkillsUSA	<input type="checkbox"/> Mentorship
<input type="checkbox"/> Health Careers I      07033	<input type="checkbox"/> Business Technology & Procedures      14079	<input type="checkbox"/> FBLA	<input type="checkbox"/> Volunteer
<input type="checkbox"/> Prevention/Care of Athletic Injuries      07034		<input type="checkbox"/> FCCLA	<input type="checkbox"/> Part-time Employment
<input type="checkbox"/> Advanced Health Careers      07035	<b>Family and Consumer Sciences Education</b>	<input type="checkbox"/> TSA	<input type="checkbox"/> Service-Learning Project
<input type="checkbox"/> Medical Terminology      07036	<input type="checkbox"/> Individual & Family Health      09129	<input type="checkbox"/> DECA	<input type="checkbox"/> Job Shadow
<input type="checkbox"/> Emergency Medical Services      07045	<input type="checkbox"/> Nutrition and Fitness      09137	<input type="checkbox"/> FFA	<input type="checkbox"/> Internship
<input type="checkbox"/> Advanced EMS      07046		<input type="checkbox"/> Career Research	
	<b>Technology and Engineering Education</b>	<input type="checkbox"/> Cooperative Work Experience	
<b>Agriculture Education</b>	<input type="checkbox"/> STEM Seminar      10610		
<input type="checkbox"/> Veterinary Science      01067	<input type="checkbox"/> Biomedical Technology      10710		
<input type="checkbox"/> Small Animal Care      01066	<input type="checkbox"/> PLTW – Principles of Biomedical Science      10730		
<input type="checkbox"/> Equine Science      01062	<input type="checkbox"/> PLTW – Principles of Human Body Systems      10732		
<input type="checkbox"/> Livestock Production      01061	<input type="checkbox"/> PLTW – Principles of Medical Interventions      10734		

**North Dakota Health Science Related Postsecondary Programs**

Pathway	Certificate or Associate's Degree	Bachelor's Degree	Master's Degree or More
<b>Biotechnology Research &amp; Development</b>	<input type="checkbox"/> Biotechnology transfer (NDSCS)	<input type="checkbox"/> Bioinformatics (MiSU) <input type="checkbox"/> Biotechnology (NDSU)	<input type="checkbox"/> Bioethics (UM) <input type="checkbox"/> Biomedical Sciences (UND) <input type="checkbox"/> Genomics and Bioinformatics (NDSU)
<b>Diagnostic Services</b>	<input type="checkbox"/> Clinical Laboratory Science transfer (NDSCS) <input type="checkbox"/> EMT-Paramedic Technician (BSC, DCB, NDSCS) <input type="checkbox"/> Medical Assistant (DCB, RC) <input type="checkbox"/> Medical Laboratory Science/Technician (BSC, RC, TMCC) <input type="checkbox"/> Phlebotomy Technician (BSC, TMCC) <input type="checkbox"/> Speech Language Pathology Paraprofessional (WSC)	<input type="checkbox"/> Communication Sciences & Disorders (MiSU, UM, UND) <input type="checkbox"/> Medical Lab Science (MaSU, MiSU, NDSU, UJ, UM, UND, VCSU) <input type="checkbox"/> Radiologic Science/Technology (MiSU, NDSU, UM)	<input type="checkbox"/> Medical Lab Science (UND)
<b>Health Informatics</b>	<input type="checkbox"/> Community Health (SBC) <input type="checkbox"/> Health Information Technician/Management (DCB, NDSCS, RC) <input type="checkbox"/> Medical Administrative Asst. (BSC, DCB, RC) <input type="checkbox"/> Medical Coding/Billing (DCB, NDSCS, RC)	<input type="checkbox"/> Forensic Science (UND) <input type="checkbox"/> Health Science (MaSU) <input type="checkbox"/> Health Information Management (RC) <input type="checkbox"/> Forensic Science (UND) <input type="checkbox"/> Human Nutrition (UND)	<input type="checkbox"/> Health Care Administration/Management (RC, UM) <input type="checkbox"/> Public Health (NDSU, UND)
<b>Support Services</b>	<input type="checkbox"/> Caregiver Services (DCB) <input type="checkbox"/> Health/Fitness Personal Trainer Technician (LRSC, TMCC) <input type="checkbox"/> Patient Access Specialist (TMCC) <input type="checkbox"/> Pharmacy Technician (NDSCS, RC) <input type="checkbox"/> Physical Therapist Assistant (RC) <input type="checkbox"/> Radiologic Technology (RC)	<input type="checkbox"/> Biomechanics (UM) <input type="checkbox"/> Fitness and Wellness (MaSU) <input type="checkbox"/> Exercise Science (DSU, NDSU, TBC, UJ, UM) <input type="checkbox"/> Exercise Science and Sport Management (VCSU) <input type="checkbox"/> Kinesiology (UND) <input type="checkbox"/> Sport Management (MaSU, NDSU, UM)	<input type="checkbox"/> Clinical Exercise Physiology (UM) <input type="checkbox"/> Kinesiology (UM, UND) <input type="checkbox"/> Kinesiology & Public Health Education (UND)
<b>Therapeutic Services</b>	<input type="checkbox"/> Dental Assisting or Dental Hygiene (NDSCS) <input type="checkbox"/> Health/Medical Assistant (BJCC, DCB) <input type="checkbox"/> Massage Therapy (JSHDF, JSHDGF, TSPA, WSC) <input type="checkbox"/> Nursing (BSC, CCCC, DCB, LRSC, NDSCS, SBC, WSC) <input type="checkbox"/> Occupational Therapy Assistant (NDSCS) <input type="checkbox"/> Practical Nursing (BSC, DCB, DSU, LRSC, NDSCS, SBC, WSC) <input type="checkbox"/> Pre-Professional transfer (BSC, DCB, NDSCS, WSC) <input type="checkbox"/> Surgical Technology (BSC, RC)	<input type="checkbox"/> Addiction Studies (MiSU) <input type="checkbox"/> Athletic Training (UND) <input type="checkbox"/> Corporate Fitness and Wellness Mgmt. (MiSU) <input type="checkbox"/> Dietetics (NDSU, UND) <input type="checkbox"/> Nursing (DSU, MaSU, MiSU, NDSU, RC, UJ, UM, UND) <input type="checkbox"/> Pharmacy (NDSU) <input type="checkbox"/> Pre-Professional programs (MaSU, MiSU, NDSU, UJ, UM, UND) <input type="checkbox"/> Rehabilitation and Human Services (UND) <input type="checkbox"/> Respiratory Care/Therapy (NDSU, UM)	<input type="checkbox"/> Athletic Training (UM) <input type="checkbox"/> Dietetics (NDSU, UND) <input type="checkbox"/> Family Nurse Practitioner (UND) <input type="checkbox"/> Health, Nutrition and Exercise Science (NDSU) <input type="checkbox"/> Medicine (UND) <input type="checkbox"/> Nursing (RC, UM, UND) <input type="checkbox"/> Occupational Therapy (UND) <input type="checkbox"/> Pharmaceutical Sciences (NDSU) <input type="checkbox"/> Physical Therapy (UJ, UND) <input type="checkbox"/> Physician Assistant Studies (UND) <input type="checkbox"/> Respiratory Therapy (UM)

**North Dakota Postsecondary Institutions Offering Health Science Related Programs**

<b>BSC</b> Bismarck State College <a href="http://www.bismarckstate.edu">www.bismarckstate.edu</a>	<b>NDSU</b> ND State University <a href="http://www.ndsu.edu">www.ndsu.edu</a>
<b>BJCC</b> Burdick Job Corps Center <a href="http://quentinnburdick.jobcorps.gov">http://quentinnburdick.jobcorps.gov</a>	<b>RC</b> Rasmussen College <a href="http://www.rasmussen.edu">www.rasmussen.edu</a>
<b>CCCC</b> Cankdeska Cikana Community College <a href="http://www.littlehoop.edu">www.littlehoop.edu</a>	<b>SBC</b> Sitting Bull College <a href="http://www.sittingbull.edu">www.sittingbull.edu</a>
<b>DCB</b> Dakota College at Bottineau <a href="http://www.dakotacollege.edu">www.dakotacollege.edu</a>	<b>TBC</b> Trinity Bible College <a href="http://www.trinitybiblecollege.edu">www.trinitybiblecollege.edu</a>
<b>DSU</b> Dickinson State University <a href="http://www.dickinsonstate.edu">www.dickinsonstate.edu</a>	<b>TSPA</b> The Salon Professional Academy <a href="http://www.tspafargo.com">www.tspafargo.com</a>
<b>JSHDF</b> Josef's School of Hair Design - Fargo <a href="http://josefsschoolofhairdesign.com">josefsschoolofhairdesign.com</a>	<b>TMCC</b> Turtle Mountain Community College <a href="http://www.tm.edu">www.tm.edu</a>
<b>JSHDGF</b> Josef's School of Hair Design – Grand Forks <a href="http://josefsschoolofhairdesign.com">josefsschoolofhairdesign.com</a>	<b>UM</b> University of Mary <a href="http://www.umary.edu">www.umary.edu</a>
<b>LRSC</b> Lake Region State College <a href="http://www.lrsc.edu">www.lrsc.edu</a>	<b>UND</b> University of North Dakota <a href="http://www.und.edu">www.und.edu</a>
<b>MaSU</b> Mayville State University <a href="http://www.mayvillestate.edu">www.mayvillestate.edu</a>	<b>VCSU</b> Valley City State University <a href="http://www.vcsu.edu">www.vcsu.edu</a>
<b>MiSU</b> Minot State University <a href="http://www.minotstate.edu">www.minotstate.edu</a>	<b>WSC</b> Williston State College <a href="http://www.willistonstate.edu">www.willistonstate.edu</a>
<b>NDSCS</b> ND State College of Science <a href="http://www.ndscs.edu">www.ndscs.edu</a>	