



Health Science Career Cluster

Pathway	OCCUPATIONS RELATING TO THIS CAREER CLUSTER
Biotechnology Research & Development	Research Scientist/Assistant • Microbiologist • Biostatistician • Cell Biologist • Biomedical Chemist • Geneticist • Genetics Lab Assistant • Quality Assurance Technician
Diagnostic Services	Clinical Lab Technician • Phlebotomist • Geneticist • Nutritionist • Magnetic Resonance (MR) Technologist • Radiologist • Pathologist • Exercise Physiologist
Health Informatics	Health Information Coder • Admitting Clerk • Transcriptionist • Medical Librarian • Public Health Educator • Ethicist • Medical Assistant • Epidemiologist
Support Services	Dietary Aide • Hospital Maintenance Engineer • Environmental Services Manager • Industrial Hygienist • Biomedical Engineer • Transport Technician
Therapeutic Services	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.
Choices may include:	Choices may include:	Required Units:	Required Units:	Required Units:
<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 AND 15111	OR
<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 AND 08030
<input type="checkbox"/> English 12 05074		OR	OR	<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	Additional units may include:	
			<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	Family and Consumer Sciences Education	<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	
	Technology and Engineering Education	<input type="checkbox"/> Cooperative Work Experience	
Agriculture Education	<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
Biotechnology Research & Development	<input type="checkbox"/> Biotechnology transfer (NDSCS)	<input type="checkbox"/> Bioinformatics (MiSU) <input type="checkbox"/> Biotechnology (NDSU)	<input type="checkbox"/> Biomedical Sciences (UND) <input type="checkbox"/> Genomics and Bioinformatics (NDSU) <input type="checkbox"/> International Infectious Disease Management (NDSU)
Diagnostic Services	<input type="checkbox"/> Clinical Laboratory Science transfer (NDSCS) <input type="checkbox"/> Communication Disorders transfer (WSC) <input type="checkbox"/> EMT-Paramedic Technician (BSC, DCB, NDSCS) <input type="checkbox"/> Medical Assistant (DCB) <input type="checkbox"/> Medical Laboratory Science/Technician (BSC, TMCC) <input type="checkbox"/> Phlebotomy Technician (BSC, TMCC) <input type="checkbox"/> Speech Language Pathology Assistant (WSC)	<input type="checkbox"/> Communication Sciences and Disorders (UM, UND) <input type="checkbox"/> Medical Lab Science (MaSU, MiSU, NDSU, UJ, UM, UND, VCSU) <input type="checkbox"/> Radiologic Science/Technology (MiSU, NDSU, UJ, UM)	<input type="checkbox"/> Medical Lab Science (UND)
Health Informatics	<input type="checkbox"/> Community Health (SBC, UTTC) <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, UTTC, WSC)	<input type="checkbox"/> Community Nutrition (UND) <input type="checkbox"/> Forensic Science (UND) <input type="checkbox"/> Health Science (VCSU) <input type="checkbox"/> Health Information Management (RC) <input type="checkbox"/> Healthcare Administration (UJ, UM) <input type="checkbox"/> Health Communication (NDSU)	<input type="checkbox"/> Health Care Administration (UM) <input type="checkbox"/> Public Health (NDSU, UND)
Support Services	<input type="checkbox"/> Caregiver Services (DCB) <input type="checkbox"/> Environmental Public Health (TMCC) <input type="checkbox"/> Fitness Trainer Technician (LRSC) <input type="checkbox"/> Social Work transfer (BSC, CCCC, NDSCS, TMCC, WSC)	<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"/> Social Work (MiSU, UM, UND) <input type="checkbox"/> Sport Management (MaSU, NDSU, UM)	<input type="checkbox"/> Clinical Exercise Physiology (UM) <input type="checkbox"/> Kinesiology (UM) <input type="checkbox"/> Kinesiology & Public Health Education (UND) <input type="checkbox"/> Social Work (UND) <input type="checkbox"/> Sports Management (MiSU)
Therapeutic Services	<input type="checkbox"/> Addictions Studies Transfer (WSC) <input type="checkbox"/> Dental Assisting or Dental Hygiene (NDSCS) <input type="checkbox"/> Health/Medical Assistant (BJCC, DCB) <input type="checkbox"/> Health Professions transfer (DCB) <input type="checkbox"/> Massage Therapy (JSHDGF, JSHDW, 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, NDSCS, SBC, TMCC, UTTC, WSC) <input type="checkbox"/> Pre-Professional transfer (BSC, DCB, NDSCS, TMCC, WSC) <input type="checkbox"/> Surgical Technology (BSC)	<input type="checkbox"/> Addiction Studies (MiSU) <input type="checkbox"/> Athletic Training (MiSU, UM, UND, VCSU) <input type="checkbox"/> Corporate Fitness (MiSU) <input type="checkbox"/> Dietetics (NDSU, UND) <input type="checkbox"/> Nursing (DSU, MaSU, MiSU, NDSU, RC, UJ, UM, UND) <input type="checkbox"/> Pharmaceutical Sciences (NDSU) <input type="checkbox"/> Pre-Professional programs (MaSU, MiSU, UJ, UM, UND) <input type="checkbox"/> Rehabilitation and Human Services (UND) <input type="checkbox"/> Respiratory Care/Therapy (NDSU, UM)	<input type="checkbox"/> Athletic Training (NDSU) <input type="checkbox"/> Nutrition and Dietetics (NDSU, UND) <input type="checkbox"/> Health, Nutrition and Exercise Science (NDSU) <input type="checkbox"/> Medicine (UND) <input type="checkbox"/> Nursing (NDSU, UM, UND) <input type="checkbox"/> Occupational Therapy (UM, UND) <input type="checkbox"/> Pharmaceutical Sciences (NDSU) <input type="checkbox"/> Physical Therapy (UJ, UM, UND) <input type="checkbox"/> Physician Assistant (UND) <input type="checkbox"/> Respiratory Therapy (UM) <input type="checkbox"/> Speech-Language Pathology (MiSU)

North Dakota Postsecondary Institutions Offering Health Science Related Programs

BSC Bismarck State College www.bismarckstate.edu	NHSC Nueta Hidatsa Sahnish College http://nhsc.edu
BJCC Burdick Job Corps Center http://quentinnburdick.jobcorps.gov	RC Rasmussen College www.rasmussen.edu
CCCC Cankdeska Cikana Community College www.littlehoop.edu	SBC Sitting Bull College www.sittingbull.edu
DCB Dakota College at Bottineau www.dakotacollege.edu	TSPA The Salon Professional Academy www.tspafargo.com
DSU Dickinson State University www.dickinsonstate.edu	TMCC Turtle Mountain Community College www.tm.edu
LRSC Lake Region State College www.lrsc.edu	UTTC United Tribes Technical College www.uttc.edu
JSHDF Josef's School of Hair Design - Fargo josefsschoolofhairdesign.com	UJ University of Jamestown www.uj.edu
JSHDGF Josef's School of Hair Design - Grand Forks josefsschoolofhairdesign.com	UM University of Mary www.umary.edu
MaSU Mayville State University www.mayvillestate.edu	UND University of North Dakota www.und.edu
MiSU Minot State University www.minotstateu.edu	VCSU Valley City State University www.vcsu.edu
NDSCS ND State College of Science www.ndscs.edu	WSC Williston State College www.willistonstate.edu
NDSU ND State University www.ndsu.edu	