



# Health Science Career Cluster

## PLAN OF STUDY

<http://www.nd.gov/cte/services/career-clusters/>

<http://www.careerclusters.org>

(7/10/2010 CTE revision)

Name \_\_\_\_\_

School \_\_\_\_\_

Date \_\_\_\_\_



SAMPLE OCCUPATIONS RELATING TO THIS CAREER CLUSTER	
Pathway	Occupations (Health educators are also included)
THERAPEUTIC SERVICES	Dental Assistant/Hygienist • Occupational Therapist • EMT/Paramedic • Physician • Nurse • Veterinarian • Nurse Practitioner • Massage Therapist
DIAGNOSTIC SERVICES	Lab Technician • Phlebotomist • Geneticist • Nutritionist • Psychologist • Radiologist • Toxicologist • Pathologist • Clinical Laboratory Technician
HEALTH INFORMATICS	Health Information Coder • Admitting Clerk • Transcriptionist • Medical Librarian • Health Information Technician • Ethicist • Medical Assistant
SUPPORT SERVICES	Dietary Technician • Hospital Maintenance Engineer • Environmental Services Technician • Athletic Trainer • Bio Medical Engineer • Transport Technician
BIOTECHNOLOGY RESEARCH & DEVELOPMENT	Research Scientist/Assistant • Pharmacist • Microbiologist • Biostatistician • Cell Biologist • Biomedical Chemist • Geneticist • Statistician

SUGGESTED COURSE OF HIGH SCHOOL STUDY						
It is suggested that students consider appropriate units of dual credit, articulation, or advanced placement opportunities for postsecondary credit.						
English (*four units required to graduate; including literature, composition, and speech) Choices may include:	Math (*three units required to graduate) Choices may include:	Science (three units required to graduate) *Required units	Social Studies (three units required to graduate) *Required units	Physical Education (one unit required to graduate) *Required units	Career & Technical Education and Other Electives (three units of foreign or Native American language, fine arts, or career and technical education are required to graduate)	Additional Suggested Learning Opportunities
<input type="checkbox"/> English 9 <input type="checkbox"/> English 10 <input type="checkbox"/> English 11 <input type="checkbox"/> English 12 <input type="checkbox"/> Speech or Debate <input type="checkbox"/> Business English <input type="checkbox"/> Grammar <input type="checkbox"/> World Literature <input type="checkbox"/> Creative Writing <input type="checkbox"/> Fiction <input type="checkbox"/> AP English <input type="checkbox"/> Dual Credit Classes	<input type="checkbox"/> Pre-Algebra  <b>College Prep:</b> <input type="checkbox"/> Algebra <input type="checkbox"/> Geometry <input type="checkbox"/> Advanced Algebra <input type="checkbox"/> Advanced Math <input type="checkbox"/> Probability & Stat <input type="checkbox"/> Trigonometry <input type="checkbox"/> AP Calculus <input type="checkbox"/> College Algebra Dual Credit Classes	<input type="checkbox"/> *Physical Science <input type="checkbox"/> *Biology <input type="checkbox"/> *1 additional unit <b>Choices may include:</b> <input type="checkbox"/> Advanced Biology <input type="checkbox"/> Human Anatomy <input type="checkbox"/> Physiology <input type="checkbox"/> Health <input type="checkbox"/> Chemistry <input type="checkbox"/> Advanced Chemistry <input type="checkbox"/> Horticulture/Plant Sci I <input type="checkbox"/> Dual Credit Classes	<input type="checkbox"/> *U.S. History <input type="checkbox"/> *American Gov 1/2 <b>and</b> <input type="checkbox"/> *Economics ½, <b>or</b> <input type="checkbox"/> *Problems of Democracy <input type="checkbox"/> *1 additional unit <b>Choices may include:</b> <input type="checkbox"/> Psychology <input type="checkbox"/> Economics <input type="checkbox"/> Sociology <input type="checkbox"/> World History <input type="checkbox"/> Dual Credit Class	<input type="checkbox"/> *Physical Education 1 unit <b>or</b> <input type="checkbox"/> *Physical Ed ½ unit <b>and</b> <input type="checkbox"/> *Health ½ unit	<input type="checkbox"/> Child Development & Parenting <input type="checkbox"/> Nutrition and Foods <input type="checkbox"/> Health Careers I <input type="checkbox"/> Advanced Health Careers <input type="checkbox"/> Medical/Legal Transcription <input type="checkbox"/> Medical Terminology <input type="checkbox"/> Medical Professional Assistant <input type="checkbox"/> Emergency Medical Services <input type="checkbox"/> Introduction to Computer Applications <input type="checkbox"/> Foreign Language	<b>School-Based:</b> <input type="checkbox"/> Skills USA <input type="checkbox"/> FCCLA <input type="checkbox"/> Student Government <input type="checkbox"/> Career Research <input type="checkbox"/> Service Learning Project <input type="checkbox"/> Job Shadowing <input type="checkbox"/> Supervised Occup. Experience <input type="checkbox"/> Internship <b>Community-Based:</b> <input type="checkbox"/> Mentorship <input type="checkbox"/> Volunteer <input type="checkbox"/> Part-time Employment

EXAMPLES OF NORTH DAKOTA POSTSECONDARY PROGRAMS RELATED TO THIS CAREER CLUSTER			
Pathway	Associate Degree or Less	Bachelors Degree	Masters Degree or More
THERAPEUTIC SERVICES	<input type="checkbox"/> Massage Therapy (BSC, RC, SRGSPM, WSC) <input type="checkbox"/> Dental Assisting or Hygiene (NDSOS) <input type="checkbox"/> EMT – Paramedic Technician (BJCC, BSC) <input type="checkbox"/> Nursing (BSC, DSU, FBCC, LRSC, NDSOS, SBC, TMCC, UTTC, WSC, Burdick Job Corps) <input type="checkbox"/> Occupational Therapy Assistant (NDSOS, WSC) <input type="checkbox"/> Physical Therapy Assistant (WSC) <input type="checkbox"/> Surgical Technology (BSC)	<input type="checkbox"/> Athletic Trainer/ Sports Medicine (MaSU, MiSU, NDSU, UND, UM) <input type="checkbox"/> Occupational/Physical Therapy (UM, UND) <input type="checkbox"/> Nursing (DSU, JC, MiSU, MOCN, NDSU, UM, UND) <input type="checkbox"/> Veterinary Technician (NDSU) <input type="checkbox"/> Respiratory Therapy (NDSU, UM)	<input type="checkbox"/> Occupational Therapy (UM, UND) <input type="checkbox"/> Internal Medicine (UND) <input type="checkbox"/> Medicine (physician) (UND) <input type="checkbox"/> Nurse Anesthesia Specialist (UND) <input type="checkbox"/> Nurse Practitioner (UM, UND) <input type="checkbox"/> Physical Therapy (UM, UND) <input type="checkbox"/> Pathology (UND)
DIAGNOSTIC SERVICES	<input type="checkbox"/> Phlebotomy Technician (BJCC, BSC) <input type="checkbox"/> Clinical Laboratory Technician (BSC, RC) <input type="checkbox"/> Radiology Technician (BSC)	<input type="checkbox"/> Food & Nutrition/Dietetics (NDSU, UND) <input type="checkbox"/> Clinical Lab Science (JC, MiSU, NDSU, UM, UND) <input type="checkbox"/> Radiologic Technology (JC, MiSU, NDSU, UM)	<input type="checkbox"/> Clinical Lab Science/Management (UND) <input type="checkbox"/> Cytotechnology (UND)
HEALTH INFORMATICS	<input type="checkbox"/> Health Information Technician (BJCC, NDSOS, RC, WSC) <input type="checkbox"/> Medical Coding (BJCC, DCB, NDSOS, RC, WSC) <input type="checkbox"/> Medical Transcription (BJCC, NDSOS, RC, UTTC, WSC) <input type="checkbox"/> Medical Office Support (BJCC, FBCC)		
SUPPORT SERVICES	<input type="checkbox"/> Medical Administrative Assistant (BSC, DCB, NDSOS) <input type="checkbox"/> Medical Assistant (BSC, DCB)	<input type="checkbox"/> Human Resource Development/Mgmt. (DSU, NDSU, VCSU) <input type="checkbox"/> Occupational Safety & Environmental Health (DSU, UND)	
BIOTECHNOLOGY RESEARCH & DEVELOPMENT	<input type="checkbox"/> Biotechnology (NDSOS) <input type="checkbox"/> Pharmacy Technician (NDSOS)	<input type="checkbox"/> Biotechnology (NDSU)	<input type="checkbox"/> Pharmacy Doctorate (NDSU)

BJCC – Burdick Job Corps Center, BSC – Bismarck State College, DCB – Dakota College at Bottineau, DSU – Dickinson State University, FBCC – Fort Berthold Community College, JC – Jamestown College, LRSC – Lake Region State College, MiSU – Minot State University, MOCN – Medcenter One College of Nursing, NDSOS – North Dakota State College of Science, NDSU – North Dakota State University, RC – Rasmussen College, SBC – Sitting Bull College, SRGSPM – Sister Rosalind Geffre’s School of Professional Massage, TMCC – Turtle Mountain Community College, UTTC – United Tribes Technical College, UM – University of Mary, UND – University of North Dakota, VCSU – Valley City State University, WSC – Williston State College. (7/10/2010 CTE revision)