



Health Science

Bismarck High School Career Cluster Program of Study

This Program of Study Template can serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. **Ask your high school counselor to help you fill in the required courses you need to graduate.**

Grade	English 8 semesters	Math 6 semesters	Science 6 semesters	Social Studies 6 semesters	Other Required Courses, Recommended Electives	Career & Technical Courses and/or Degree Major Courses	SAMPLE Occupations Relating to this Pathway
9	Comm Arts I	Pre- College Algebra or high school math class	High School Science Course	High School SS Course	Health Classes High school biological science classes	High School health classes Check with high school counselor for additional course offerings	Occupations Requiring Less than Baccalaureate Degree ▶ Dental Assistant/Hygienist ▶ EMT/Paramedic ▶ Health Information Coder
10	Comm Arts II	Pre- College Algebra or high school math class	High School Science Course	High School SS Course	Health Classes High school biological science classes	High School health classes Check with high school counselor for additional course offerings	▶ Home Health Aide ▶ Lab Technician ▶ Phlebotomist ▶ Radiographer ▶ Registered Nurse Occupations Requiring Baccalaureate Degree & Beyond
11	Comm Arts II high school English elective *College English Comp I or Public Speaking	Pre- College Algebra or high school math class *College Algebra	High School Science Course *College General Biology	High School History or Government Course * College Am. History I & Am. History II *American Political systems	Health Classes High school biological sciences *College Psychology *College Sociology *Med Term I & II *Human Growth & Development	Check with high school counselor for additional course offerings *Unitec Health Occupations Program (CNA) *College Med Term I & II *Emergency Medical Responder *College Human Growth & Dev * *Human Anatomy & Physiology *Calculus – Pre-med or masters degree and above	▶ Athletic Trainer ▶ Biochemist ▶ Biostatistician ▶ Geneticist ▶ Industrial Hygienist ▶ Nutritionist ▶ Occupational Therapist ▶ Physician (MD/DO) ▶ Psychologist ▶ Radiologist ▶ Research Scientist ▶ Speech/Language Pathologist
12	*College English Comp II or Intro to Lit	Pre- College Algebra or high school math class *College Algebra	High School Science Course *College Intro to Chemistry *Gen Chem	High School History or Government Course * College Am. History I & Am. History II *American Political systems	Health Classes High school biological sciences *College Psychology, *Sociology *Med Term I & II *Human Growth & Development	Check with high school counselor for additional course offerings *Unitec Health Occupations Program (CNA) *College Med Term I & II *Emergency Medical Responder *College Human Growth & Dev *Human Anatomy & Physiology *Calculus – Pre-med – Pre-med and masters degree and above	▶ Toxicologist ▶ Veterinarian ▶ Physical Therapist ▶ Nurse Practitioner

***Dual Credit courses can often be substituted for high school credit. Check with your Counselor.**

***Dual Enrollment courses can be taken on a MAC campus or online.**

Assessments/Certifications: College Placement Assessments, Compass, ACT, SAT

Clubs/Extracurricular Activities: **Ask your Counselor what is available at your school.**

Work-Based Learning: After School Employment Internship/Mentorship Job Shadowing Service Learning

Certifications: **HeartSaver First Aid** **HeartSaver CPR** **Basic Life Support (BLS)**

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Sample Career Specialties/Occupations	Acupuncturist Anesthesiologist/Assistant Anesthesia Technologist/Technician Art/Music/Dance Therapist(s) Athletic Trainer Audiologist Certified Nursing Assistant Chiropractor Chiropractic Assistant Dental Assistant/Hygienist Dental Lab Technician Dietitian/Nutritionist Dosimetrist EMT/Paramedic Endodontist Exercise Physiologist Home Health Aide Kinesiotherapist Licensed Practical Nurse Massage Therapist Medical Assistant Mental Health Counselor Naturopathic Doctor Nurse Anesthetist Nurse Midwife Nurse Practitioner Occupational Therapist/Assistant Oral Surgeon Orientation/Mobility Specialist Orthodontist Orthoptist Orthotist/Prosthetist/Technician Pedorthist Perfusionist Pharmacist Pharmacy Technician Physical Therapist/Assistant Physician (MD/DO) Physician Assistant Podiatrist Psychologist Psychiatrist Radiation Therapist Recreation Therapist Registered Nurse Rehabilitation Counselor Respiratory Therapist Speech-Language Therapist Surgical Technician Veterinarian Veterinarian Assistant/Technician Vision Rehabilitation Therapist Wellness Coach	Audiologist Blood Bank Technology Specialist Cardiovascular Technologist Clinical Lab Technician Clinical Laboratory/Technologist Computer Tomography (CT) Technologist Cytogenetic Technologist Cytotechnologist Dentist Diagnostic Medical Sonographer Electrocardiographic (ECG) Technician Electroneurodiagnostic Technologist Electronic Diagnostic (EEG) Technologist Exercise Physiologist Geneticist Geriatrician Histotechnician Histotechnologist Magnetic Resonance Technologist Mammographer Medical Technologist/ Clinical Laboratory Scientist Nuclear Medicine Technologist Optician Ophthalmologist Ophthalmic Assistant/Technologist Optometrist Pathologist Pathologists' Assistant Phlebotomist Polysomnographic Technologist Positron Emission Tomography (PET) Technologist Radiologic Technologist Radiologist Speech-Language Pathologist	Admitting Clerk Applied Researcher Compliance Technician Clinical Account Manager Clinical Account Technician Clinical Data Specialist Community Services Specialists Data Quality Manager Epidemiologist Ethicist Health Educator Health Information Mgmt. Administrator Health Information Mgmt. Technician Healthcare Access Manager Healthcare Administrator Healthcare Finance Informatician Information Privacy Officer Managed Care Contract Analyst Medical Coder Medical Historian Medical Illustrator Medical Information Technologist Medical Librarian Medical Transcriptionist Patient Account Manager Patient Account Technician Patient Advocate Patient Information Coordinator Project Manager Public Health Educator Quality Management Specialist Quality Data Analyst Research and Decision Support Specialist Reimbursement Specialist Risk Manager Unit Coordinator Utilization Manager Utilization Review Manager	Animal Behavioralist Biomedical/Clinical Engineer Biomedical/Clinical Technician Clinical Simulator Technician Central Service Manager Central Service Technician Community Health Worker Dietary Manager Dietetic Technician Environmental Health Advocate Environmental Health Practitioner Environmental Services/ Specialist Facilities Manager Food Safety Specialist Health Advocate Hospital Maintenance Engineer Industrial Hygienist Interpreter Marital, Couple, Family Counselor/Therapist Materials Manager Medical Health Counselor Mortician/ Funeral Director Nurse Educator Occupational Health Nurse Occupational Health & Safety Expert Social Worker Transport Technician	Biochemist Bioinformatics Scientist Biomedical Chemist Biomedical Manufacturing Technician Biostatistician Cancer Registrar Cell Biologist Clinical Data Management Specialist Clinical Pharmacologist Clinical Trials Monitor Clinical Trials Research Coordinator Crime Scene Investigator Diagnostic Molecular Scientist Forensic Biologist Forensic Chemist Forensic Odontologist Forensic Pathologist Genetic Counselor Geneticist-Lab Assistant Lab Technician Medical Editor/Writer Microbiologist Molecular Biologist Nurse Researcher Packaging Technician Patent Lawyer Pharmaceutical/Clinical Project Manager Pharmaceutical Sales Representative Pharmaceutical Scientist Pharmacokineticist Pharmacologist Product Safety Scientist Process Development Scientist Processing Technician Quality Assurance Technician Quality Control Technician Regulatory Affairs Specialist Research Assistant Research Scientist Toxicologist
	Therapeutic Services	Diagnostics Services	Health Informatics	Support Services	Biotechnology Research and Development
Path-ways	Cluster Knowledge and Skills				
Cluster K & S	♦ Academic Foundation ♦ Communications ♦ Systems ♦ Employability Skills ♦ Legal Responsibilities ♦ Ethics ♦ Safety Practices ♦ Teamwork ♦ Health Maintenance Practices ♦ Technical Skills ♦ Information Technology Applications Revised July 2009 www.careerclusters.org				