

HEALTH SCIENCE CAREER PLAN OF STUDY MONTANA STATE UNIVERSITY BILLINGS

Learner Name _____

Date _____

Learner Signature _____

Advisor Signature _____

Parent/Guardian Signature (if required) _____

This plan of study should 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. All plans should meet high school graduation requirements as well as college entrance requirements.

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
High School Courses	English I	English II	English III	English IV
	Algebra I or Geometry	Geometry or Algebra II	Algebra II , Algebra III, or Pre-Calculus	Algebra III, Pre-Calculus, Calculus, or Advanced Math
	Science*	Science*	Science*	Science*
	PE, Health	World History	American History	Government / Social Studies
	Required Electives as outlined by high School (e.g. Art, Music, Foreign Language, Technology, Business or Health)	Required Electives as outlined by high school (e.g. PE, Health (.5), Art, Music, Foreign Language, Technology, Business or Health)	MSU Billings University Connection Courses Basic Anatomy (COT) Health Occupations Terminology I (COT) Survey of Health Occupations (COT) Introduction to Psychology Survey of Biology	
*Suggested Science Classes Include Biology, Chemistry, and Physics		(See an Advisor for more options)		
Career Exploration, Work-Based and Post-Secondary Training	Career Exploration/ Work-Based or Short Term Training Options	Programs at Montana Community Colleges and Montana Colleges of Technology		Programs at Montana and/or National Colleges/Universities
	<input type="checkbox"/> Certified Nurse Aid <input type="checkbox"/> CPR / First Aid Certification <input type="checkbox"/> Phlebotomy <input type="checkbox"/> EMT <input type="checkbox"/> Job Shadow _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____	<input type="checkbox"/> Bioscience Technology <input type="checkbox"/> Dental Assistant <input type="checkbox"/> Dental Hygienist <input type="checkbox"/> Medical Administrative Assistant/Medical Transcriptionist <input type="checkbox"/> Medical Assistant <input type="checkbox"/> Medical Coding/Medical Billing Specialist <input type="checkbox"/> Nursing Assistant – Certified <input type="checkbox"/> Nursing – Practical Nurse <input type="checkbox"/> Nursing – RN <input type="checkbox"/> Paramedic <input type="checkbox"/> Pharmacy Technologist <input type="checkbox"/> Radiologic Technologist <input type="checkbox"/> Respiratory Care <input type="checkbox"/> Surgical Technology <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____		<input type="checkbox"/> Athletic Trainer <input type="checkbox"/> Community Health Educator <input type="checkbox"/> Dentist <input type="checkbox"/> Health Administrator <input type="checkbox"/> Nursing-RN <input type="checkbox"/> Nurse Practitioner <input type="checkbox"/> Medical Technologist <input type="checkbox"/> Nutritionist <input type="checkbox"/> Pharmacist <input type="checkbox"/> Physician Assistant <input type="checkbox"/> Physical Therapist <input type="checkbox"/> Physician <input type="checkbox"/> Radiologist <input type="checkbox"/> Social Worker <input type="checkbox"/> Veterinarian <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____

**Please note that the lists above are a sample of careers in the Health Science Pathways and are subject to change. For more information on programs at Montana Colleges and Universities, go to www.montanacolleges.com. For more information on programs at MSU-Billings, go to www.msubillings.edu/hsp*

Are you interested in a career in healthcare and wondering how to get there? Your future begins with a strong foundation in high school. Work with your high school counselor to develop a personal plan of study. See suggested courses on the other side of this worksheet.

EXPERIENTIAL LEARNING

As you develop your personal plan of study, it is also important to participate in learning experiences outside of the classroom. Consider some of the activities below to enhance your skills, learn more about health careers, and move forward in the health science pathways.

- **Job shadow with a healthcare professional**
- **Volunteer in the medical field**
- **Participate in school clubs or activities**
- **Complete a certification while in high school**
- **Research current issues in healthcare**

UNIVERSITY CONNECTIONS PROGRAM

In addition to taking courses at your high school, also consider taking courses through the Montana State University Billings University Connections program. With permission from your parents and high school counselor, you can take college courses through MSU Billings or MSU Billings College of Technology while still in high school. Each course costs approximately \$100 per credit. Take a course that will help you move forward in the health pathways. You might consider one of the following courses:

- **HLTH 100 Survey of Health Occupations**
- **HLTH 150 Health Occupations Terminology**
- **PSYC 101 Introduction to Psychology**

See an advisor for other available courses.

CAREER EXPLORATION

The Health Science Career Cluster has five different pathways. As you develop your personal plan of study, explore the career specialties within the five pathways below.

Therapeutic Services

Careers in Therapeutic Services are focused primarily on changing the status of the patient over time. Health professionals in Therapeutic Services work directly with patients to provide care, treatment, counseling, and health education and information. Careers in this area typically require an associate's, bachelor's or master's degree.

Diagnostic Services

Careers in Diagnostic Services use tests and evaluations that aid in detection, diagnosis, and treatment of diseases, injuries, or other physical conditions. In addition to an associate or bachelor of science degree, many Diagnostic careers require a specialty certification.

Health Informatics

Careers in Health Informatics cover a wide range of areas and many different levels. This pathway includes people responsible for managing patient data and information, financial information, and computer applications related to health care professionals. Some careers in the Health Informatics pathways require a specialized degree while others require on-the-job training or certification.

Support Services

Support Services encompasses a full range of occupations from entry level to management or technical and professional careers. Many of these careers offer extensive on-the-job training to learn necessary skills. Others require a certificate or an associate or bachelor of science degree.

Biotechnology Research and Development

Careers in Biotechnology Research and Development involve bioscience research and development in the health field. These scientists may study diseases to discover new treatments or invent medical devices used to directly assist patients or to improve accuracy of diagnostic tests. Most positions in this field require a master's degree in a specialized area.

*Health Science Pathways information taken from information provided by States Career Clusters at www.careerclusters.org and the National Association of State Directors of Career and Technical Education Consortium

Go to www.msubillings.edu/hsp to learn more about health careers.

Contact Information:

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