HORACE HIGH SCHOOL
BIOMEDICAL PATHWAY

Our MISSION

Educating today's learners for tomorrow's world.

Our VISION

West Fargo Public Schools prepares all learners with the knowledge and skills to be compassionate, contributing citizens in a rapidly changing world. We are dedicated to continuous improvement, engaging every student to become problem solvers and lifelong learners. Excellence is achieved through practices based in research, and by aligning all resources to support learning.

HIGH-WAGE, HIGH-SKILL, AND HIGH-DEMAND CAREERS

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 • Nurse • Veterinarian • Social Worker • Massage Therapist • Physical Therapist

PROGRAM OF STUDY: BIOMEDICAL

SUBJECT	9th Grade	10th Grade	11th Grade	12th Grade
Choice Ready Planning	Advisory	Advisory	Advisory	Advisory
Language Arts	English Language Arts 1 Honors English 1	English Language Arts 2 Honors English 2	English Language Arts 3 AP Lang & Comp	English Language Arts 4 AP Lit & Comp
Math	Algebra I	Geometry	Algebra II	Precalculus and Trigonometry College Alg/Statistics
Science	Biology	Physical Science	Chemistry	AP Biology AP Chemistry
Social Studies	World Geography AP Human Geo	Western Civilization AP European History	United States History AP U.S. History	Government/Economics AP Gov / AP Econ
Pathway Courses	**PLTW Principles of BioMed**	**PLTW Human Body Systems**	**PLTW Medical Interventions**	**Internship/Pathway Elective**
PE/Health 9 ELECTIVES 10-12	Health Physical Education	PE/Elective	PE/Elective	Electives
Recommended Electives: 2 per year	**Pathway Electives**: Medical Terminology (0.5), PLTW Biomed (1.0), CNA (0.5), EMS, Pharm Tech, Prevention and Care of Athletic Injuries (0.5), D/C Health (0.5), Anatomy/Physiology (1.0), Discovering Foods (0.5), Food Trends (0.5) **Global Electives**: Foreign Language (1.0), Music (1.0), Art (0.5), Public Speaking (0.5), Physical Education (0.5) or any other pathway elective in another Academy that has seats available.			

Student Leadership and Career and Technical Student Organization(s) – TSA

The Technology Student Association is a local, state, and national student organization created to develop skills in science, technology, engineering, and mathematics as well as business education. TSA aims to develop leadership, academic, and business management skills in the workplace among students and leaders within the community. Students currently or previously enrolled in Technology & Engineering courses join TSA and extend their learning and leadership through intra-curricular activities, and competitions. Contact your school's TSA Advisor to get involved.

College & Career Experiences – Accessible to ALL Academy Program of Study Students

Community Speakers, Career Interest Inventory, College Application, College & Career Fair, College & Career Research, College and Career Speakers, College Presentations, Job Shadow, Mock Interviews, Personal Statements, Professional Interviews, Scholarship & Financial Aid, Senior Capstone, Ten Year Plan

Aligned Early Postsecondary Courses – Accessible to ALL Academy Program of Study Students

AP Seminar, AP Research, AP Lang & Comp, AP Lit & Comp, Fundamentals of Public Speaking, AP Biology, AP Chemistry, AP Environmental Science, AP Physics, Anatomy & Physiology, Microbiology, AP Calculus, College Algebra, Statistics, AP Human Geography, AP European History, AP U.S. History, AP U.S. Gov, AP Microeconomics, Psychology, Sociology, Medical Terminology

Professional Certification(s)
Certified Nursing Assistant, TEAS Exam, First Aid/CPR **????**

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Health Science Coordinated Plan of Study – ND Scholarship

Therapeutic Services		Biotechnology Research	
Course Name	**Cr**	**Course Name**	**Cr**
Certified Nurse Assistant - 07031	.5	PLTW Principles of Biomedical Science - 10730	1
Health Science I - 07033	1	PLTW Human Body Systems (22-23) - 10732	1
Health Science II - 07035	1	PLTW Medical Interventions (23-24) - 10734	1
Prevention and Care of Athletic Injuries *(Dual Credit option)* -07034	.5		
Medical Terminology Online *(Dual Credit option)* - 07036	.5		
Health Supervised Occupational Experience			½ to 4

Is This Pathway for You?

- Do you get satisfaction from helping people, animals, and/or the environment?
- Do you enjoy dealing with a problem that isn't easily solved or doesn't have the correct answer?
- Are you comfortable with situations that are unpredictable and rapidly changing?
- Are you interested in math and science?
- Do you like listening and working with others who have differing viewpoints?
- Do you enjoy puzzles, exploring and solving problems?
- Can you respond quickly and calmly in unexpected situations?
- Do you like to volunteer and do service work that focuses on helping other people or the environment?

North Dakota Health Science Related Post-Secondary Programs

Pathway	Certificate or Associate's Degree	Bachelor's Degree	Master's Degree or More
Biotechnology Research & Development	☐ Biotechnology transfer (NDSCS) ☐ Pharmacy Technician (NDSCS, RC, TMCC)	☐ Bioinformatics (MiSU) ☐ Biotechnology (NDSU) ☐ Pharmaceutical Sciences (NDSU)	☐ Biomedical Sciences (UND) ☐ Genomics and Bioinformatics (NDSU) ☐ Pharmaceutical Sciences/Pharmacy (NDSU)
Diagnostic Services	☐ Clinical Laboratory Science transfer (NDSCS) ☐ Dialysis Technician (NDSCS) ☐ EMT – Paramedic Technician (BSC, DCB, NDSCS) ☐ Medical Laboratory Technician (BSC, TMCC) ☐ Medical Laboratory transfer (BSC) ☐ Phlebotomy Technician (BSC, TMCC)	☐ Medical Lab Science (MaSU, MiSU, NDSU, UJ, UM, UND, VCSU) ☐ Communication Sciences and Disorders (UM, UND) ☐ Radiologic Technology (MiSU, NDSU, UJ, UM)	☐ Medical Lab Science (UND)
Health Informatics	☐ Community Health Worker (SBC) ☐ Health Information Technician/Management (DCB, NDSCS) ☐ Medical Administrative Asst. (BJCC, DCB, RC) ☐ Medical Coding/Billing (DCB, NDSCS, RC, UTTC, WSC)	☐ Community Nutrition (UND) ☐ Forensic Science (UND) ☐ Healthcare Management (RC) ☐ Health Administration (UM) ☐ Health Communication (NDSU)	☐ Health Care Administration (UM) ☐ Nurse Administrator (UM) ☐ Public Health (NDSU, UND)
Support Services	☐ Caregiver Services (DCB) ☐ Environmental Public Health (TMCC) ☐ Fitness Trainer Technician (LRSC) ☐ Social Work transfer (BSC, CCCC, NDSCS, TMCC, WSC)	☐ Corporate Fitness/Wellness (MaSU, MiSU) ☐ Exercise Science (DSU, NDSU, UJ, UM) ☐ Kinesiology (UND) ☐ Social Work (MiSU, UM, UND)	☐ Clinical Exercise Physiology (UM) ☐ Exercise Science and Nutrition (NDSU) ☐ Exercise Physiology/Kinesiology (UM, UND) ☐ Social Work (UND)
Therapeutic Services	☐ Addictions Studies Transfer (NHSC) ☐ Dental Assisting/Hygiene (NDSCS) ☐ Health/Medical Assistant (CCCC, DCB) ☐ Massage Therapy (JSHDF, JSHDGF, TSPA, WSC) ☐ Mental Health/Addictions Technician (WSC) ☐ Nursing transfer (BSC, CCCC, DCB, LRSC, NDSCS, SBC, WSC) ☐ Occupational Therapy Assistant (NDSCS) ☐ Practical Nursing (BSC, BJCC, DCB, DSU, NDSCS, NHSC, SBC, TMCC, UTTC, WSC) ☐ Pre-Professional transfer (BSC, DCB, MaSU, NDSCS, TMCC, WSC) ☐ Surgical Technology (BSC)	☐ Addiction Studies (MiSU) ☐ Athletic Training (MiSU, UM, UND) ☐ Dietetics (NDSU, UND) ☐ Music Therapy (UND) ☐ Nursing (DSU, MaSU, MiSU, NDSU, RC, UJ, UM, UND) ☐ Pre-Professional Programs (MaSU, MiSU, UM) ☐ Rehabilitation and Human Services (UND) ☐ Respiratory Care/Therapy (NDSU, UM)	☐ Advanced Nursing Practice (NDSU) ☐ Advanced Athletic Training (NDSU) ☐ Dietetics (NDSU) ☐ Health, Nutrition and Exercise Science (NDSU) ☐ Gerontology (NDSU) ☐ Nursing (NDSU, UM, UND) ☐ Nutrition (UND) ☐ Occupational Therapy (UM, UND) ☐ Physical Therapy (UJ, UM, UND) ☐ Physician Assistant (UND) ☐ Psychological Clinical Science (NDSU) ☐ Respiratory Therapy (UM)