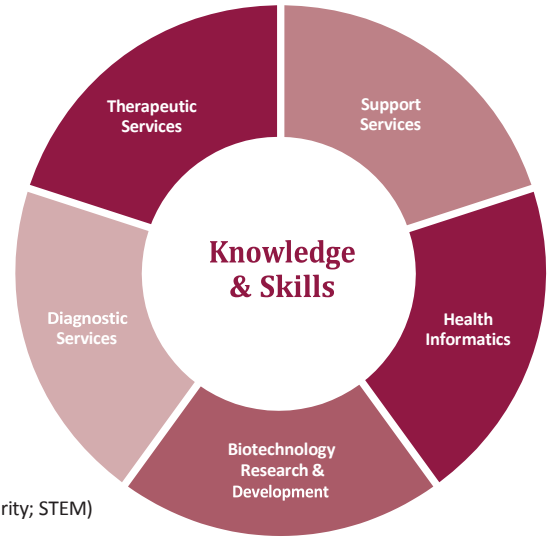


HEALTH SCIENCE

The Health Science Program of Study (POS) connects individuals to a large variety of health care areas that is characterized by diversity and changing technologies. This Program of Study allows students to investigate and observe a large variety of health care areas. Health Science careers include planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. There are obvious connections between Health Science and other programs of study (please see those in parentheses below for possible opportunities). Pathways in this Program of Study include:

Pathways:

- **Biotechnology Research & Development**
(Agriculture, Food, and Natural Resources; STEM)
- **Diagnostic Services**
(Information Technology/Computing)
- **Health Informatics**
(Business, Management, Administration; Law, Public Safety, Corrections, and Security; STEM)
- **Support Services**
(Human Services; STEM)
- **Therapeutic Services**
(Human Services; STEM)



Suggested Learning Experiences

| Middle School Electives | | |
|-----------------------------|--|--|
| Courses | Grade 7 | Grade 8 |
| Additional Electives | <ul style="list-style-type: none"> • Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration | <ul style="list-style-type: none"> • Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics |

| High School Electives | | | | |
|---|--|---|---|--|
| Courses | Grade 9 | Grade 10 | Grade 11 | Grade 12 |
| Additional Electives | <ul style="list-style-type: none"> • World Languages • AP Human Geo | <ul style="list-style-type: none"> • World Languages | <ul style="list-style-type: none"> • World Languages, Psychology • AP Economics | <ul style="list-style-type: none"> • World Languages |
| Career & Technical Education | <ul style="list-style-type: none"> • Family & Consumer Science Electives • Sports Medicine I (SS) • Career Pathways | <ul style="list-style-type: none"> • Exploring Health Careers • Family & Consumer Science Electives | <ul style="list-style-type: none"> • TC Medical Terminology • Family & Consumer Science Electives | <ul style="list-style-type: none"> • Family & Consumer Science Electives • See Work-Based Learning Options below |

High School Electives Cont.

| Courses | Grade 9 | Grade 10 | Grade 11 | Grade 12 |
|------------------------------------|--|--|--|--|
| English | <ul style="list-style-type: none"> • English I R/H/Essentials | <ul style="list-style-type: none"> • English II R/H/Essentials • AP Lang/US History | <ul style="list-style-type: none"> • English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Lang & Composition | <ul style="list-style-type: none"> • AS Written Communication • TC English 101/102 • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials |
| Math | <ul style="list-style-type: none"> • Essentials I • Algebra I • Geometry | <ul style="list-style-type: none"> • Essentials II • Algebra II | <ul style="list-style-type: none"> • Advanced Math Applications • Pre-Calculus • AP Statistics | <ul style="list-style-type: none"> • AS Technical Math • TC Math 105/110 • AP Calculus |
| Science | <ul style="list-style-type: none"> • Biology • Principles of Biomedical Sciences (PLTW) | <ul style="list-style-type: none"> • Human Body Systems (PLTW) • Chemistry • AP Biology • ES Biotechnology | <ul style="list-style-type: none"> • Medical Interventions (PLTW) • Anatomy and Physiology • Biochemistry | <ul style="list-style-type: none"> • Biomedical Innovations (PLTW) • Physics |
| Social Studies | <ul style="list-style-type: none"> • US History & Amer. Gov. Essentials/R/AP | <ul style="list-style-type: none"> • American Republic R/Essentials • AP US History • AP Lang/US History | <ul style="list-style-type: none"> • World Studies Essentials/Reg • AP World History • AP European History | <ul style="list-style-type: none"> • Elective |
| Other Required | <ul style="list-style-type: none"> • Computer Applications • Healthy Choices • Physical Education | <ul style="list-style-type: none"> • Physical Education • Healthy Choices | <ul style="list-style-type: none"> • Consumer & Personal Finance • Physical Education | <ul style="list-style-type: none"> • Physical Education • Consumer & Personal Finance |
| Work-Based Learning Options | TC Health Career Connections, Youth Apprenticeship, Sports Medicine II | | | |
| Other Activities | FCCLA, HOSA, National Honor Society, Pathway Partners, Youth Service Learning, Science Olympiad, Science Bowl, Student Council | | | |

HEALTH SCIENCE

Career Types by Pathway

| HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING | CERTIFICATE/LICENSE | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/DOCTORAL PROFESSIONAL DEGREE |
|---|--|---|--|---|
| BIOTECHNOLOGY RESEARCH AND DEVELOPMENT | | | | |
| | <ul style="list-style-type: none"> Quality Assurance Technician Quality Control Technician | <ul style="list-style-type: none"> Clinical Laboratory Technician (CLT) Medical Laboratory Technician (MLT) | <ul style="list-style-type: none"> Biochemistry Immunology Medical Technology Microbiology Neuroscience | <ul style="list-style-type: none"> Anatomy Biochemistry Oncology Biology Virology Epidemiology |
| DIAGNOSTIC SERVICES | | | | |
| <ul style="list-style-type: none"> Clinical Rotation | <ul style="list-style-type: none"> Electrocardiograph Technology Nuclear Medical Technology Radiology Technologist | <ul style="list-style-type: none"> Cardiovascular Technology Medical Laboratory Assisting Nuclear Medical Technology | <ul style="list-style-type: none"> Biology Medical Imaging Technology Medical Laboratory Science Nutrition | <ul style="list-style-type: none"> Cardiovascular Technology Diagnostic Radiology Medical Laboratory Science Nuclear Medicine |
| HEALTH INFOMATICS | | | | |
| <ul style="list-style-type: none"> Coding Experience Data Entry Community Service | <ul style="list-style-type: none"> Health Records Technology Medical Assisting Medical Librarian Medical Transcription | <ul style="list-style-type: none"> Health Information Technology Medical Coding Medical Office Services | <ul style="list-style-type: none"> Community Health Health Care Administration Health Education | <ul style="list-style-type: none"> Health Care Administration Library Science Nursing Administration Public Health |
| SUPPORT SERVICES | | | | |
| <ul style="list-style-type: none"> Central Services Assistant Dietary Manager Electrical/Electronic Equipment Repair | <ul style="list-style-type: none"> Dietary Management Electrical/Electronic Equipment Repair Medical Office Management | <ul style="list-style-type: none"> Dietary Management Medical Office Management Registered Dietetic Technician | <ul style="list-style-type: none"> Biomedical Technology Environmental Health & Safety Prosthetic Therapies | <ul style="list-style-type: none"> Environmental Health Sciences Industrial/Operations Engineering Public Health |
| THERAPEUTIC SERVICES | | | | |
| <ul style="list-style-type: none"> Clinical Rotation Dental Assisting Health Aide Medical Assistant | <ul style="list-style-type: none"> Certified Nurse's Aid Dental Assisting Licensed Practical Nurse Massage Therapy | <ul style="list-style-type: none"> Dental Hygiene Licensed Practical Nursing Pre-Medicine Surgical Technology | <ul style="list-style-type: none"> Athletic Training/Exercise Science Dietetics Pre-Medicine Recreational Therapy | <ul style="list-style-type: none"> Clinical Nutrition Dentistry Medicine Nurse Anesthetist Pharmaceutical Services |