

Charting the Course

CLICK THE LINKS BELOW TO EXPLORE...



Career Clusters

- [Agriculture, Food & Natural Resources](#)
- [Architecture & Construction](#)
- [Arts, A/V Technology & Communications](#)
- [Business Management & Administration](#)
- [Education & Training](#)
- [Finance](#)
- [Government & Public Administration](#)
- [Health Science](#)
- [Hospitality & Tourism](#)
- [Human Services](#)
- [Information Technology](#)
- [Law, Public Safety, Corrections & Security](#)
- [Manufacturing](#)
- [Marketing](#)
- [Science, Technology, Engineering & Mathematics \(STEM\)](#)
- [Transportation, Distribution & Logistics](#)

TCE Center Programs

- [Advanced Technology Center](#)
- [Tech Center](#)

High School Academies

- [Entrepreneurship & Business](#)
- [Global Studies & World Languages](#)
- [Governor's STEM & Technology](#)
- [Green Run Collegiate](#)
- [Health Sciences](#)
- [International Baccalaureate](#)
- [Legal Studies](#)
- [Mathematics & Science](#)
- [Visual & Performing Arts](#)

Dual Enrollment Programs

- [Tidewater Community College \(TCC\)](#)

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)

Map pin denotes Virginia Beach Economic Development key industries aligned with career clusters.

Suggested Learning Experiences

Middle School Electives	<ul style="list-style-type: none"> • Technology Education Exploratory, Computer Solutions, Advanced Computer Solutions, and Keyboarding
Advanced Studies Diploma Coursework	<ul style="list-style-type: none"> • ENGLISH: Any sequence meeting graduation requirements • MATH: Algebra I, Geometry, Algebra II or Algebra II Trigonometry, Probability & Statistics and Trigonometry, Math Analysis or higher • SCIENCE: Earth Science, Biology, Chemistry, AP Biology or AP Chemistry • SOCIAL STUDIES: Any sequence meeting graduation requirements
Standard Diploma Coursework	<ul style="list-style-type: none"> • ENGLISH: Any sequence meeting graduation requirements • MATH: Algebra I, Geometry, Algebra II or any 3rd math credit • SCIENCE: Earth Science, Biology or Chemistry • SOCIAL STUDIES: Any sequence meeting graduation requirements
Career Coursework	<ul style="list-style-type: none"> • Materials Technology I & II, Introduction to Engineering, Computer Information Systems & Advanced, Parenting & Child Development, Introduction to Child Care Occupations <p>(Academy and Technical Center Programs are recommended)</p>
Academy/Center Programs	<ul style="list-style-type: none"> • Health Sciences Academy (Bayside High School) • Mathematics & Science Academy (Ocean Lakes High School) • Technical & Career Education Center

Industry Certifications	<ul style="list-style-type: none"> AutoCAD AAFCS: Broad Field FCS, AutoCAD, Autodesk Inventor, Brainbench 3D Studio Max, Certified Dental Assistant 1, Certified Dental Assistant 2, Access 2013, Excel 2013, Excel 2013 Expert 1, Excel 2013 Expert 2, OneNote 2013, Outlook 2013, PowerPoint 2013, SharePoint 2013, Word 2013, Word 2013 Expert 1, Word 2013 Expert 2, CMAA Certified Medical Admin Asst, CSWA, DANB Infection Control Exam, DANB Radiation, Health & Safety, GEF: Sustainability 101, NCLEX-PN Practical Nursing, NOCTI: Accounting Advanced, Dental Assistant, Electronics Assessment, Pre-engineering/EngTech, NRDA, Nurse's Aide Exam-VA Board of Nursing, VA Board of Nursing Nurse Aide Exam
Student Organizations	<ul style="list-style-type: none"> FCCLA HOSA
Career Exploration/Enrichment	<ul style="list-style-type: none"> RU Ready VA Wizard for College & Career Information VA Career V.I.E.W. for K-8 Career Information Major Clarity
Co-operative Education/Internships	<ul style="list-style-type: none"> Co-op or internship recommended



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 & DEVELOPMENT				
	Quality Assurance Technician Quality Control Technician	Clinical Laboratory Medical Laboratory Technician (CLT) Technician (MLT)	Biochemistry Immunology Medical Technology Microbiology Neuroscience	Anatomy Biochemistry Oncology Biology Virology Epidemiology
DIAGNOSTIC SERVICES				
Clinical Rotation	Electrocardiograph Technology Nuclear Medical Technology Radiology Technologist	Cardiovascular Technology Medical Laboratory Assisting Nuclear Medical Technology	Biology Medical Imaging Technology Medical Laboratory Science Nutrition	Cardiovascular Technology Diagnostic Radiology Medical Laboratory Science Nuclear Medicine
HEALTH INFOMATICS				
Coding Experience Data Entry Community Service	Health Records Technology Medical Assisting Medical Librarian Medical Transcription	Health Information Technology Medical Coding Medical Office Services	Community Health Health Care Administration Health Education	Health Care Administration Library Science Nursing Administration Public Health
SUPPORT SERVICES				
Central Services Assistant Dietary Manager Electrical/Electronic Equipment Repair	Dietary Management Electrical/Electronic Equipment Repair Medical Office Management	Dietary Management Medical Office Management Registered Dietetic Technician	Biomedical Technology Environmental Health & Safety Prosthetic Therapies	Environmental Health Sciences Industrial/Operations Engineering Public Health
THERAPEUTIC SERVICES				
Clinical Rotation Dental Assisting Health Aide Medical Assistant	Certified Nurses' Aide Dental Assisting Licensed Practical Nurse Massage Therapy	Dental Hygiene Licensed Practical Nursing Pre-Medicine Surgical Technology	Athletic Training Exercise Science Dietetics Pre-Medicine Recreational Therapy	Clinical Nutrition Dentistry Medicine Nurse Anesthetist Pharmaceutical Services