



GOVERNOR'S
Health Sciences
Academy

PROPOSAL

March 28, 2013

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“The Governor’s Health Sciences Academy is an immersive education environment focused on building a foundation of medical knowledge, skills, and experiences.”

“Students will apply their core academics in the context of medical careers to help them find the path that best suits their aptitudes and interests.”



Goals

- Academy participants will have the opportunity to earn nine or more dual enrollment credits.
- Students will enroll in postsecondary programs or obtain employment in health, science, or medically-related fields.
- Academy will increase opportunities for non-traditional and under-represented groups.



Participants will:

- complete Introduction to Health Occupations and Medical Terminology or similar pathway courses.
- successfully take advanced mathematics beyond Algebra II by senior year.
- complete at least four years of science coursework.
- possess two or more Virginia Board of Education-approved industry credentials



Graduation Data

	2011-12	2010-11	2009-10
Hampton City students who completed CTE programs and graduated from secondary education.	99%	99%	98%
Hampton City CTE completers - Advanced Studies Diploma, International Baccalaureate Diploma or Standard Diploma.	94%	94%	94%
Hampton City Schools (all students)	80%	77%	73%
Virginia (all students)	82%	82%	80%

Hampton City Schools Graduation Rate

Virginia Peninsula Health Care Employers

Currently hiring	73 %
Expect 0-5% job growth <1 year	62 %
Expect > 5 % growth 1-5years	60 %

Source: *ROADMAP TO SUCCESS! A VA Peninsula Strategic Plan for Career Pathways in Healthcare: Allied Health Occupations 2012-2018*"

Job Growth % change per cluster

Support Jobs

Medical Equipment Preparers	13%
Healthcare Support Workers, All Other	21%
Medical and Health Services Managers	23%

Diagnostic Jobs

Health Technologists and Technicians	20%
Medical and Clinical Laboratory Technicians	22%
Radiologic Technologists and Technicians	24%
Cardiovascular Technologists and Technicians	30%
Diagnostic Medical Sonographers	43%
Emergency Medical Technicians and Paramedics	46%
Veterinary Technologists and Technicians	57%

Percent Change 2010-20 Source: Virginia Workforce Connection



Employment Data

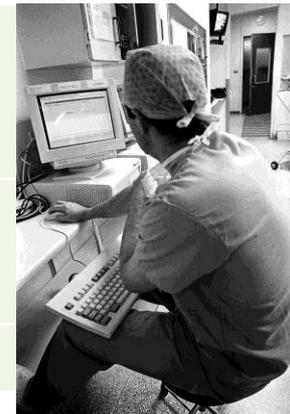
Therapeutic Services Jobs

Physical therapy assistants	46%
Physical therapy aides	52%
Personal care aides	60%
Home health aides	57%
Medical assistants	36%

Source: *ROADMAP TO SUCCESS! A VA Peninsula Strategic Plan for Career Pathways in Healthcare: Allied Health Occupations 2012-2018*

Health Informatics Jobs

Medical Transcriptionists	6%
Medical Records and Health Information Technicians	19%
Medical Secretaries	44%



Bioscience industry supported nearly 80,000 direct and indirect jobs in the Virginia (source VaBIO).

Medical Scientists, Except Epidemiologists is expected to grow 45%.

Percent Change 2010-20 Source: Virginia Workforce Connection

Why?

- Rigor, Relevance, & Relationships
- Community need driven
- Increases visibility for college applications
- Increases postsecondary opportunities and scholarships for Academy graduates



Why?

Hampton City Public Schools Strategic Goal 1:

Maximize Every Child's Learning

- Opportunities for students to enrollment in Health Sciences pathway courses will begin in grade 6



Where?

- Bethel High School
- Transportation

When?

- Start in 2013-2014
- Recruit from all 4 high schools and 8 middle schools



Why Bethel High School?

- Health and Medical Sciences pathways courses already in place
- Centrally located to medical community
- High local and regional *need for entrants* into all five career pathways



Students working in the community

Who Benefits?



Pathway Implementation

- Diagnostic (2010 with NHREC)
- Biotechnology Research and Development (2013)
 - Will add Project Lead The Way Biotechnical curriculum in 2014 (www.pltw.org/)
- Therapeutic Services (2013)
- Health Informatics (2014)
- Support Services (2015)

All Pathways

(except Biotechnology)

- Introduction to Health Occupations (8181)
- Medical Terminology (8383)

Therapeutic Services

- Nurse Aide I (8360)
- Nurse Aide II (8362)
- or
- Practical Nursing I (8357)
- Practical Nursing II (8358)
- Senior Mentorship (WBL2)

Support Services

- Accounting (6320)
- Advanced Accounting (6321)
- Computer Information Systems (6612)
- Advanced Computer Information Systems (6613)

Biotechnology Research and Development

Foundation Courses

- Principles of the Biomedical Sciences (8379)
- Human Body Systems (8380)
- Medical Interventions (8381)

Capstone Course

- Biomedical Innovation (8382)

Diagnostic Services

- Medical Assistant I (8345)*
- Medical Assistant II (8346)*

Health Informatics

- Principles of Business and Marketing (6115)
- IT Fundamentals (6670)
- Advanced Computer Information Systems (6613)
- Computer Information Systems (6612)
- Programming (6640)
- Computer Mathematics (3184)

Advanced Placement Courses

AP STATISTICS

AP BIOLOGY

AP BIOLOGY (virtual)

AP CHEMISTRY

AP ENGLISH/LIT 12

AP ENGLISH/LANG 11

AP HUMAN GEOGRAPHY

AP US HISTORY

AP WORLD HISTORY

AP GOVERNMENT: US

AP PSYCHOLOGY

AP AB CALCULUS

AP BC CALCULUS

How and What?

Work-based learning and enrichment experiences include:

- Job Shadowing
- In-hospital Explorer Post
- Participation in mass casualty simulations
- Internships with health care providers
- Super Saturdays and Summer Program



How and What?



- Expand existing local health sciences pathway courses in two pathways by adding 3 required pathways over a 3-year period
- Increase AP and Dual Enrollment options
- Recruit students in fall of their eighth grade year through letters to parents, brochures, school counselors resources, promotional videos, online application process, and social media.

Who?



It is about every student, every day, whatever it takes

Staffing

- Registered Nurses with experience
- Assistant principal and an Instructional Leader charged with the operations of the Academy.
- Academic and Career and Technical teachers on Academy team.
- 60 students per incoming year.
- Enrollment set at 240 students in grades 9-12

Who?

Leverage initiatives of local partners

Greater Peninsula Healthcare Workforce Partnership

A program of the



S E N T A R A™



ecpi UNIVERSITY



Thank you!



**The mission of Hampton City Schools is:
“In collaboration with our community,
Hampton City Schools ensures academic
excellence for every child, every day,
whatever it takes.”**