

## ABOUT US

XLR8 Lynchburg Regional Governor's STEM Academy – is the 16th regional Governor's STEM Academy offering programs in science, technology, engineering and mathematics (subjects known collectively as “STEM”) for High School Juniors and Seniors in Virginia's Region 2000/Lynchburg regional area.

Located on the campus of Central Virginia Community College – XLR8 offers academic and technical training related to careers in engineering, mechatronics, biotechnology, health science, computer science and cybersecurity.

## MATRICULATION

CVCC	Montana Tech
Centra College of Nursing	Norfolk State University
Concord University	Radford University
George Mason University	University of Kentucky
Liberty University	Mary Washington University
Lynchburg College	Virginia Military Institute
Old Dominion University	Virginia Tech



## OUR PARTNERS

Amherst County Schools  
Appomattox County Schools  
Bedford County Schools  
Campbell County Schools  
Lynchburg City Schools  
AECOM  
Appalachian Power  
AMG  
AMTI  
AREVA  
BWX Technologies  
Centra  
Central VA Community College  
Delta Star  
Electronic Design & Manufacturing Company (EDM)  
Harris Corporation  
Liberty University  
Lynchburg Morning Rotary Club  
Lynchburg Regional Business Alliance  
Master Engineers & Designs  
Moore's Electrical  
Successful Innovations, Inc.  
Sweet Briar College  
Swissomation  
Union Bank  
VDOT  
Workforce Investment Board  
WW Associates  
Wegmann, USA  
Wells-Fargo

**Please contact us for information on becoming a STEM Academy Partner or Sponsoring a STEM Academy Event**

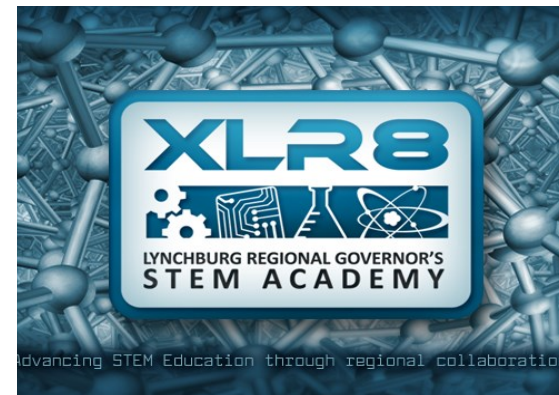


## XLR8 STEM ACADEMY

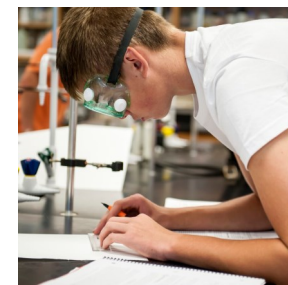
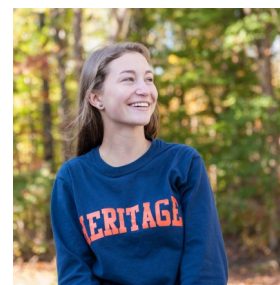
3506 Wards Road  
Lynchburg, VA 24502

Phone: 434-832-7731  
Email: [scash@xlr8academy.com](mailto:scash@xlr8academy.com)

## XLR8 STEM ACADEMY



## Program Information 2016-2017



## QUICK FACTS

All STEM Academy students are Dual enrolled students at Central VA Community College

Students can earn up to 44 college credits for their classes

Students can earn up to two Career Studies Certificates from Central VA Community College.

STEM Academy classes are weighted courses for Grade Point Average calculations for base school transcripts

Parents/Guardians or student must provide transportation to internship locations in the spring of senior year

STEM Academy operates during the morning hours from 8:00am- 11:00am

STEM Academy is a partnership between CVCC, all five public school divisions, higher education and local business and industry leaders.



## OUR CURRICULUM

### Junior Year

- Introduction to Engineering Design
- Principles of Engineering
- College Algebra
- Elementary Statistics
- Applied Calculus 1
- College Chemistry for Engineers 1 & 2
- Student Success Skills



### Senior Year– Mechatronics/Engineering

- Computer Integrated Manufacturing
- Digital Electronics
- Pre calculus 1 & 2
- Calculus 1 & 2
- College Physics 1 & 2
- Internship



### Senior Year-Biotechnology/Heath Science

- Introduction to Medical Terminology
- Digital Electronics
- Pre calculus 1& 2
- Calculus 1 & 2
- Human Anatomy and Physiology 1 & 2
- Internship



### NEW for 2017-2018

- Senior Specialization in Cyber Security

## LEARNING ENVIRONMENT

The Academy is housed on the campus of Central VA Community College (CVCC)

Students enjoy more freedoms and are responsible for their own learning and time management

Multidisciplinary connections between science, technology, engineering, mathematics and health science are emphasized

All instructors at the STEM Academy are CVCC college professors

Students learn critical thinking, creativity, innovation and real-world problem solving skills through hands-on project based learning

Students are able to meet and network with local business and industry leaders

Students are able to participate in a semester long internship experience with a local company

