

# STEM Starts Here



## The Game of STEM

### Where Every Path's a Winner



**Pick Your Courses:**

**Discover SCIENCE**

- Earth Science
- Biology
- Chemistry
- Physics
- Environmental Science
- Level II Science Courses

**Experience ENGINEERING**

- AP Computer Science A
- CTE Computer Science Course Sequence
- CTE Engineering Course Sequence

**Investigate MATH**

- Algebra I
- Geometry
- Algebra II
- Math Analysis
- AP Statistics
- Calculus

**Career Field Key**

- Science
- Technology
- Engineering
- Mathematics

**Continuing Education Path Key**

- High School Diploma
- Post-Secondary Certification
- Associate's Degree
- Bachelor's Degree
- Master's Degree
- Doctoral Degree



The Game of  
**STEM**  
Where Every Path's a Winner

## SCIENCE

Career	Annual Median Income	Minimum Recommended Education
<b>Biological Sciences</b>		
Genetic Counselors	\$81,880	Master's Degree
Medical Assistants	\$34,800	High School Diploma*
Nurse Practitioners	\$109,820	Master's Degree
Occupational Therapy Assistants	\$61,510	Associate's Degree
Phlebotomists	\$35,510	Post-Secondary Award
Physical Therapists' Assistants	\$58,790	Associate's Degree
Physicians' Assistants	\$108,610	Master's Degree
Veterinarians	\$95,460	Doctoral Degree
Veterinary Technologists and Technicians	\$35,320	Associate's Degree
<b>Observational and Research Sciences</b>		
Atmospheric and Space Scientists	\$95,380	Bachelor's Degree
Agricultural and Food Scientists	\$75,650	Bachelor's Degree
Environmental Science and Protection Technicians	\$46,540	Associate's Degree
Environmental Scientists and Specialists	\$71,040	Bachelor's Degree
Forensic Science Technicians	\$59,150	Bachelor's Degree
Geological Petroleum Technicians	\$53,300	Associate's Degree

Earth Science  
Biology  
Chemistry  
Physics  
Environmental Science  
Level II Science Courses

Algebra I  
Algebra II  
Geometry  
Math Analysis  
Calculus or Statistics

AP Computer Science A

**Recommended Course Options**

## Virginia Career Pathways: High Growth STEM Occupations Based on Field

## TECHNOLOGY

Career	Annual Median Income	Minimum Recommended Education
<b>Technology</b>		
Solar Photovoltaic Installers	\$44,890	High School Diploma*
Wind Turbine Service Technicians	\$52,910	High School Diploma*
<b>Computer Science</b>		
Computer and Information Research Technicians	\$118,370	Master's Degree
Computer User Support Specialists	\$52,270	Associate's Degree
Information Security Analysts	\$98,250	Bachelor's Degree
Software Developers (Apps)	\$119,430	Bachelor's Degree
Web Developers	\$69,430	Associate's Degree

Biology  
Chemistry  
Physics

AP Computer Science A  
CTE Computer Science Course Sequence

**Recommended Course Options**

## ENGINEERING

Career	Annual Median Income	Minimum Recommended Education
Aerospace Engineering and Operations Technicians	\$66,020	Associate's Degree
Civil Engineers	\$87,060	Bachelor's Degree
Computer Hardware Engineers	\$117,220	Bachelor's Degree
Electrical and Electronic Engineering Technicians	\$68,190	Associate's Degree
Electricians	\$56,180	High School Diploma*
Electronics Engineers	\$105,570	Bachelor's Degree
Engineering Technicians	\$50,620	Associate's Degree
Environmental Engineering Technicians	\$50,620	Associate's Degree
Industrial Engineers	\$88,240	Bachelor's Degree
Mechanical Engineers	\$93,360	Bachelor's Degree
Marine Engineer and Naval Architects	\$92,400	Bachelor's Degree

\*or equivalent

Biology  
Chemistry  
Anatomy and Physiology  
Physics

AP Computer Science A

CTE Engineering Course Sequence

Algebra I  
Algebra II  
Geometry  
Math Analysis  
Calculus or Statistics

**Recommended Course Options**

## MATHEMATICS

Career	Annual Median Income	Minimum Recommended Education
Actuaries	\$108,350	Bachelor's Degree
Data Scientists	\$94,280**	Bachelor's Degree
Mathematicians	\$105,030	Master's Degree
Operations Research Analysts	\$84,810	Bachelor's Degree
Statisticians	\$87,780	Master's Degree

\*\*Annual Mean Income

Biology  
Chemistry  
Anatomy and Physiology  
Physics

AP Computer Science A

Algebra I  
Algebra II  
Geometry  
Math Analysis  
Calculus or Statistics

**Recommended Course Options**

**VIRGINIA**  
THE DIGITAL DOMINION

CodeVA

www.codevirginia.org

VIRGINIA DEPARTMENT OF  
EDUCATION

100