

South River High School



 A Maryland Blue Ribbon School of Excellence

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CEEB: 210494



2016 School Profile

Components of a STEM Education

Problem Based Learning

Given a scenario, students must come up with a solution using what they can find through research and personal knowledge

Group Collaboration and Communication

Working in heterogeneous groups, students are exposed to different personalities and ideas, learn compromise and build leadership skills

Engaged Students

Students are encouraged to explore their interests and use their own methods for problem solving

Challenging Curriculum

Classes are designed to allow exploration of all STEM fields while pushing students to realize their full academic potential

Real World Connections

Students work on real world situations, in collaboration with business professionals, to solve locally identified problems and on their own to develop a process or product to address a need.

College Matriculation for 2016 Graduates

Anne Arundel Community College	Northeastern University
Albright College	Oregon State University
Auburn University	Purdue University
Belmont University	Salisbury University
Boston College	SD Sch of Mines & Technology
Boston University	St. Mary's College of Maryland
California University of PA	Towson University
Clemson University	US Air Force Academy
Coastal Carolina University	US Naval Academy
College of William & Mary	UMD University College
Duke University	UMBC
Embry-Riddle Aeronautical Univ	University of MD, College Park
Florida Institute of Technology	University of North Carolina
Georgia Institute of Technology	University of Pittsburgh
George Washington University	University of the Incarnate Word
Johnson C. Smith University	Villanova University
Liberty University	Virginia Tech
Massachusetts Maritime Academy	West Virginia University
Miami University, Oxford	York College of Pennsylvania

Top 25 Engineering Source School
University of Maryland Clark School of Engineering

Graduated Class Size: 86 students

Total Scholarships Awarded for STEM Class of 2016:
\$12,483,647 million

Program Pathways / Pathway Specific Courses

Project Lead the Way **Aerospace Engineering / Civil Engineering**

Honors Engineering Principles
Honors Introduction to Engineering
Honors Digital Electronics
Honors Aerospace Engineering
or Honors Civil Engineering/Architecture
Honors Engineering Design & Development with Internship

Earth & Space Systems

AP Environmental Science or Aeronautics
Advanced Earth Space Missions (NASA Online Course)
Advanced Research & Analysis with Internship

Green Technologies

AP Environmental Science
Advanced Environment in Society
Advanced Green Architecture & Urban Planning
or Advanced Research & Analysis with Internship

Computer Science & Theoretical **Applied Mathematics**

AP Computer Science
Advanced Parallel Cloud Computing
Advanced Mathematical & Scientific Model Ghosting
Advanced Research & Analysis with Internship

Nanotechnology & Materials Science

AP Computer Science
Advanced Materials Science
Advanced Nanotechnology Explorations
Advanced Research & Analysis with Internship

