

An Introduction to The Complete STEM Experience at HIGH POINT REGIONAL HIGH SCHOOL

Eighth Grade Open House January 7, 2016

MR. BRIAN J. DRELICK
Supervisor of STEM
Science, Technological Studies, Business & Mathematics

HIGH POINT STEM – The 9th Grade Experience

Science	Tech Studies	Business	Mathematics
Environmental Science A/B	Principles of: • Mechanical Movement • Engineering Design • Media Tech • Eng. Drawing	21 st Century Skill Seminar for ALL 9 th Graders	Math Concepts and Applications (First Half of Algebra I)
Biology Honors	Architecture	Intro to Business	Algebra I Honors
Bio A	Computer Aided Design	Intro to Computer Science	Algebra I A
	Computer Animation	Entrepreneurship	Geometry Honors
	Material Processing	Accounting 1	Geometry A
	Biotechnology	Principles of Marketing	
	Women in Engineering	Fashion Marketing	
	Communication Tech.	Advertising and Sales	
	Power, Energy, Transportation		
	Media Technology		

HIGH POINT STEM – Science

EXPECTATIONS FOR BIOLOGY HONORS

Expectations: Maturity, good work ethic, good writing skills, can handle quite a bit of homework, summer homework, responsible.

of homework, summer homework, responsible

Long Term Project: Independent Project-Starts with hypotheses in September and ends

with final project in June.

Pathway for: Serious STEM student, more options for AP classes

EXPECTATIONS FOR BIOLOGY A

Expectations: Meeting deadlines, class moves at faster pace than Environmental

Science, mature, prepared, motivated to learn

Long Term Project: Service Learning Project

Pathway for: Exploring more science options at High Point

9th graders who start in Environmental can still get on an Honors track.

9th Graders in the AP Physics I Pilot MUST also be enrolled in Geometry Honors

HIGH POINT STEM – Early Integration

21st Century Skills Seminar

(Critical Thinking, Problem Solving, Interpersonal Communication Skills, Presentation Skills, Introduction to Coding, Google Apps, Teamwork, Career Exploration, Digital Citizenship)



Principles of Engineering Design Technology (TEC656)

Principles of Engineering Drawing (TEC658)

Principles of Mechanical Movement (TEC655) Principles of Media Technology (TEC657)



HIGH POINT STEM – Mathematics

Math Concepts and Applications

- First half of Algebra I
- Algebra I would be taken as a 10th Grader

Algebra 1

- Offered as A and Honors level
- Algebra I Honors critical thinking, extensive use of graphing calculator, deeper and more enriched exploration of problems
- ALGEBRA I IS THE FOUNDATION FOR SUCCESS

Geometry

- Offered as A and Honors level
- Students from both Algebra I and Geometry will take Algebra II beginning in 10th Grade
- Students can take two Math courses in Grade 9

HIGH POINT STEM – Why High Point?

The Hour of Code

725 students and 25 teachers from multiple departments

New Jersey STEM League

 Original participant in event to formally integrate Math and Science concepts into Design and Problem Solving

Dynamic Electives

- Forensics, Geology, Marine Science
- Unrivaled variety in Technological Studies and Business
- Honors electives in Science Research, Accounting, Engineering, CADD, Media, and Architecture
- Nationally recognized in Media, Technological Studies, and Business

AP

- Calculus AB/BC, Statistics
- Environmental Science, Biology, Chemistry, Physics 1/2/C
- Computer Science Principles, Computer Science
- Capstone (one of only 5 in NJ)

Competitive Event Success

DECA, FBLA, TSA, VEX Robotics











HIGH POINT STEM – By June 2020

A Diverse Exploration of Science. Creativity and Innovation in Technological Studies. A Real World Understanding of the Business World. Practical Applications and Mastering the Skills of Mathematics.

Please Feel Free to Contact Me with Any Questions: **Brian Drelick**

bdrelick@hpregional.org

973-875-3101 Fxt. 1329

Join Us this Saturday, January 9th for the VEX Robotics Regional Tournament @ High Point.

> 8 am -5 pm **FREE**

