Preparing Men of Scholarship in the 21st Century

A Curriculum for the 21st Century that Interests and Engages Students Regardless of Academic Ability

- 16 STEM (Science, Technology, Engineering and Math) electives (College Prep through AP)
- Current courses are incorporating more project-based and inquiry learning.
- Electives and extra-curricular activities expose students to possible career paths, interact with industry professionals, and apply what they are learning to solve real world problems.

Technology that Supports Learning and Prepares Students for College:

- Full Multi-Media Classrooms
- 1 to 1 iPad Program w/ 50+ academic apps. iPads, books & apps are included in tuition.
- Science Labs outfitted with Vernier and Pasco equipment.
- Over 120 laptops for student use
- Advanced Technology for Students
 - Four 3-D Printers (Makerbot 2x)
 - Epilog Laser Engraver
 - Cisco Switches, Routers, WAPs

A Mindset of Continual Improvement

- Monthly professional development training for the faculty
- Research shows that collaboration among colleagues increases student achievement. Time is set aside every Wednesday for faculty development
- Teachers learn how to incorporate technology & meet in learning groups to discuss curriculum & methodology, & stay current in their discipline.

Interested in STEM? Sophomore Year (Current Electives) **Start Here Intro to Programming Pre-Engineering** Freshman Year **Experiential** Technology for the 21st **Engineering** Century Lego Mindstorms Data Jam **Math Competitions Mousetrap Racecar Intro to Programming** Science Bowl **Chess Club** Digital Citizenship **FIRST Robotics Gaming Club** Competition **PA Junior Academy** of Science (PJAS) **PA First STEM Future Business** Competition **Vex Robotics** Leader of America Mechanical Limb **Design Challenge End Here**

Chain Reaction

Contraption

(Grades 9 & 10)

End Here
College Ready to Major
in a STEM Field

Opportunities to Experience STEM Careers

Junior / Senior Year

- Honors Computer
 Science with Data
 Structures (College in High School Credit)
- 6 AP STEM Electives
 (Calculus AB & BC,
 Statistics, Biology,
 Chemistry, Physics C)
- Bio-Tech/Engineering
- 3D Design & Modeling
- Computer Networking
- Advanced Software Applications
- Principles of Entrepreneurship