We have partnered with Camden County College to create a pathway for students to focus their high school experience towards a number of possible programs. Successful students could leave high school with up to a semester’s worth of college credits through Dual Credit programs and the College Now option*. A list of dual credit programs and their college equivalent are listed below. For more information on dual credit, check with your counselor.

<table>
<thead>
<tr>
<th>High School Course</th>
<th>Department</th>
<th>CCC Course #</th>
<th>CCC Course Title</th>
<th>Credits</th>
<th>Grade Required</th>
<th>AP/Score</th>
<th>Highland</th>
<th>Triton</th>
<th>Creek</th>
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<tbody>
<tr>
<td>AP Statistics</td>
<td>Math</td>
<td>MTH 111</td>
<td>Elements of Statistics I</td>
<td>3</td>
<td>A, B or C</td>
<td>Not Required</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Probability &amp; Statistics</td>
<td>Math</td>
<td>MTH 111</td>
<td>Elements of Statistics I</td>
<td>3</td>
<td>A or B</td>
<td>Not Required</td>
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<td>X</td>
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<td>AP Calculus AB</td>
<td>Math</td>
<td></td>
<td></td>
<td>3</td>
<td>A, B or C</td>
<td>Not Required</td>
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<tr>
<td>AP Biology</td>
<td>Science</td>
<td>BIO 111</td>
<td>Biology I - Science</td>
<td>4</td>
<td>A or B</td>
<td>YES 3+</td>
<td>X</td>
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<tr>
<td>AP Chemistry</td>
<td>Science</td>
<td>CHM 111</td>
<td>Chemistry I - Science</td>
<td>4</td>
<td>A or B</td>
<td>Not Required</td>
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<td>X</td>
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<tr>
<td>AP Environmental Science</td>
<td>Science</td>
<td>BIO 106</td>
<td>Living in the Environment</td>
<td>4</td>
<td>A or B</td>
<td>YES 3+</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>AP Physics 1</td>
<td>Science</td>
<td>PHY 101</td>
<td>Physics I</td>
<td>4</td>
<td>A, B or C</td>
<td>Not Required</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>AP Physics 2 **</td>
<td>Science</td>
<td>PHY 102</td>
<td>Physics II</td>
<td>4</td>
<td>A, B or C</td>
<td>Not Required</td>
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<tr>
<td>Forensic Science</td>
<td>Science</td>
<td>CHM 145</td>
<td>Intro to Forensic Science</td>
<td>4</td>
<td>A or B</td>
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<tr>
<td>AP Government &amp; Politics</td>
<td>Social Studies</td>
<td>POL 103</td>
<td>American Government</td>
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<td>A or B</td>
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<tr>
<td>AP Psychology</td>
<td>Social Studies</td>
<td>PSY 101</td>
<td>Basic Psychology</td>
<td>3</td>
<td>A, B or C</td>
<td>Not Required</td>
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<td>AP U.S. History II</td>
<td>Social Studies</td>
<td>HIS 122</td>
<td>US History II</td>
<td>3</td>
<td>A, B or C</td>
<td>Not Required</td>
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<tr>
<td>CAD I &amp; Architectural Des.</td>
<td>Technology</td>
<td>CAD 101</td>
<td>Computer Aided Engineering Graphics</td>
<td>4</td>
<td>A or B</td>
<td>Not Required</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Robotics **</td>
<td>Technology</td>
<td>EET 101</td>
<td>Electrical &amp; Electronic Principles</td>
<td>4</td>
<td>A or B</td>
<td>Not Required</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>French III Honors</td>
<td>World Lang</td>
<td>FRE 101</td>
<td>Elementary French I</td>
<td>3</td>
<td>A or B</td>
<td>Not Required</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>French IV Honors</td>
<td>World Lang</td>
<td>FRE 102</td>
<td>Elementary French II</td>
<td>3</td>
<td>A or B</td>
<td>Not Required</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Italian III Honors</td>
<td>World Lang</td>
<td>ITA 101</td>
<td>Elementary Italian I</td>
<td>3</td>
<td>A or B</td>
<td>Not Required</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Italian IV Honors</td>
<td>World Lang</td>
<td>ITA 102</td>
<td>Elementary Italian II</td>
<td>3</td>
<td>A or B</td>
<td>Not Required</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Spanish III Honors</td>
<td>World Lang</td>
<td>SPA 101</td>
<td>Elementary Spanish I</td>
<td>3</td>
<td>A or B</td>
<td>Not Required</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Spanish IV Honors</td>
<td>World Lang</td>
<td>SPA 102</td>
<td>Elementary Spanish II</td>
<td>3</td>
<td>A or B</td>
<td>Not Required</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

* College Now requires a qualifying score on the College Placement Test (Accuplacer… https://www.accuplacer.org )

The S.T.E.A.M. Preparatory Academy at Black Horse Pike Regional is a rigorous two-year interdisciplinary program designed to provide a strong educational foundation for academically gifted students planning to pursue careers in Science, Technology, Engineering, Arts or Mathematics. Students enrolled in this program should be prepared for exceptionally challenging coursework and a variety of educational opportunities.

The Purpose: To develop high school pathways that will prepare and direct students for college and focus class and coursework selections on a given career. The pathway will include courses for students to earn college credit to ready them for their ultimate career goal. We want to pilot a program to help get the word out and inform students about REAL opportunities and put them on a track to get them there. We want to develop roadmaps for counselors and students.

The Need: Students need direction and real opportunities that are realistic to their abilities and dreams. They need education on the career opportunities that are out there that they do not yet know about… beyond the specifics and typical. Patient care/healthcare options are available as well as Applied Associates degrees in Horticulture or Forensics.
Interested students begin the process during course selection for their freshmen year of high school by taking Innovative Engineering. Students should be on track to take advanced math and science classes throughout their high school careers. Juniors can enter the Academy by filling out an application and submitting it to their counselor. Courses for Junior and Senior year are listed below with blanks for electives and/or other academic courses.

### Possible Junior Year Courses
- AP Lang & Comp
- Pre-Calc Honors
- AP Calculus AB
- AP Statistics
- AP Chem
- AP Env. Science
- AP Physics I
- AP Biology
- AP US History
- AP US History II
- PE/Health 11

### Possible Senior Year Courses
- AP Lit & Comp.
- AP Math (Calc AB, Statistics)
- AP Science (ES, Phys, Chem, Biology)

Early Release for extended learning at CCC...
Students can take up to four college courses

Students will be required to complete and present a Capstone Project during their senior year. An advisor will work closely with the students during the end of their junior year to help prepare for the project. During the first semester of their senior year, they will take a S.T.E.A.M. Capstone Independent Research course to finalize the project. The project will then be presented at Camden County College. The Capstone project is a culminating experience calling upon students to utilize a vast amount of skills and knowledge learned throughout high school. The projects will ask students to research a chosen topic, create their own experiment, analyze their own results of this experiment, and disseminate the results of the project. This experience must show inter-disciplinary connections as related to a career including emphasis on Science, Technology, Engineering, Art, and Math.

### Possible Career Paths/Programs: (Examples)

#### Biotechnology/Forensic Science
- Associate in Applied Science
  - Biological Technicians work with scientists studying living organisms. Many assist scientists who conduct medical research helping to find a cure for cancer or AIDS, for example. Biological technicians, also analyze organic substances such as blood, food and drugs, and some examine evidence in a forensic science laboratory.
  - In High School…
    - AP Biology (Dual Credit with CCC with a 3 or higher on the AP exam)
    - AP Chemistry (Dual Credit with CCC with a C or higher)
    - AP Calculus
    - Elements of Statistics (Dual Credit with CCC with a C or Higher)
    - Forensic Science (Dual Credit with CCC)

#### CADD
- Associate in Applied Science
  - This career oriented major in college includes instruction on the use of a number of the most popular industry-standard graphics and drafting software applications. Employment opportunities include CADD operator, CADD technician, Computer draftsperson and Design drafter.
  - In High School…
    - AP English Language and Composition
    - CADD I & Architectural Design (Dual Credit with CCC)
    - AP Calculus
    - AP Physics I (Dual Credit with CCC)
# Steam Academy possibilities

<table>
<thead>
<tr>
<th>STEAM</th>
<th>Courses</th>
<th>Careers</th>
<th>Possible College Credits</th>
</tr>
</thead>
</table>
| **S** Science | Anatomy & Physiology  
A.P. Biology (Dual Credit)  
A.P. Chemistry (Dual Credit)  
A.P. Physics I (Dual Credit)  
Forensic Science (Dual Credit)  
A.P. Environmental (Dual Credit) | Surgical Technology  
Biomedical Labs  
Pharmaceutical Industry  
Clinical, Hospital and reference laboratories | Up to 20 college credits using only the dual credit options |
| **T** Technology | Printing Technology (College NOW)*  
Internet tools and techniques (College NOW)*  
Digital Photography  
Digital Video Production  
Multimedia Applications  
Practical Computer Applications | Computer Animation  
Computer Graphics  
Electronic publishing  
Computer Programmer  
Database administrator | College Now* option can lead to up to 9 credits taking 3 courses at CCC. |
| **E** Engineering | Technical Drawing (College Now)*  
Pre-Engineering Engineering  
CADD I & Architectural Design (Dual Credit TR&HH)  
Robotics | CADD Operator  
CADD technician  
Computer Draftsperson  
Engineer’s assistant | Up to 8 College credits using Dual Credit and College Now (at CCC)* |
| **A** Art | Photography I (College Now)*  
Voice and Diction (College NOW)*  
Art & Design  
Art II  
A.P. 2D Art & Design  
Computer Graphics  
Digital Photography | Artist  
Work in Art Galleries  
Assist Art Faculty at Art Camps  
Photojournalist | Up to 9 College credits using Dual Credit and College Now (at CCC)* |
| **M** Math | A.P. Statistics (Dual Credit)  
Algebraic Concepts (College NOW)*  
Pre-Calculus/Calculus  
A.P. Calculus | Pharmaceutical Industry  
Lab Technician  
Accounting  
Laser, optical, video manufacturing  
Medical Offices | Up to 7 College Credits using Dual Credit and College Now (at CCC)* |

* College Now requires a qualifying score on the College Placement Test (Accuplacer ... [https://www.accuplacer.org](https://www.accuplacer.org) )