



Middle Township High School

# The Academy of Computer Science (STEM)

*A high-quality educational program for students with an interest in pursuing a career in the science, technology, engineering, or math (STEM) fields.*



Middle Township High School  
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**Diversity is Our Strength**

## Pursuing a Career in STEM

Middle Township High School's Academy of Computer Science provides students with exposure to careers in the science, technology, engineering, and math (STEM) fields by preparing them for college courses.

Within this Academy, students will be able to earn college credits for specific courses, and will have the opportunity to work with professionals in the field.

Successfully completing the courses of study in this Academy will give students an advantage when seeking immediate employment in the technology field, and in their coursework progression at the college/university level.

Students are encouraged to complete internship hours in the computer science or engineering fields, or they may complete a culminating project by the end of their senior year to broaden their understanding of their chosen area of study.



## Courses for Study

Students enrolled in the Academy are required to take:

### Ninth-Grade:

- Computer Systems\*

### Eleventh-Grade:

- AP Computer Science\*

### Tenth-Grade:

- AP Computer Science Principles\*

### Twelfth-Grade:

- Robotics

*\*Students who successfully complete these courses can receive credits through Atlantic Cape Community College.*

Academy students in the eleventh-grade can take optional classes in Desktop Publishing and Technology Education I; twelfth-grade students can take optional classes in Web Page Design and Technology Education II.

## Sample Schedule

STEM — The Academy of Computer Science				
	Grade 9	Grade 10	Grade 11	Grade 12
<b>Math</b>	Algebra I/ Geometry	Geometry/ Algebra II	Algebra 2/ Pre-Calculus	Pre-Calculus/ Calculus
<b>Science</b>	Biology	Chemistry	Physics	AP Physics
<b>English</b>	English I	English II	English III	English IV
<b>History</b>	World History	US History I	US History II	
<b>Foreign Language</b>	Foreign Language I	Foreign Language II		
<b>Phys Ed</b>	Phys Ed	Health	Phys Ed/ Option II	Phys Ed/ Option II
<b>Technology</b>	Computer Systems	AP Computer Science Principles	AP Computer Science	Robotics
<b>Electives</b>			Tech Ed I Desktop Publishing	Tech Ed II Web Page Design Financial Literacy

## Program Requirements

In addition to completing the required courses of study, students enrolled in the Academy of Computer Science also are required to take four years of math and four years of science; AP Physics is strongly suggested as their fourth-year course.

Students are encouraged to complete a culminating project by the end of their senior year, or an internship in the computer science/engineering field during the summer between their junior or senior years, or during their senior year.

## Middle Township Academies of Study



Middle Township High School is proud to offer academy programs in multiple fields, designed to enable students to excel in a specific content area.

Our mission is to prepare students for college and career through a focused course of study, work, and eventual practicum experience, as well as through association with related national organizations.

Ultimately, students who complete their academy's course of study will graduate from Middle Township High School with a certificate of advanced standing in their area of study.