

**COMPUTER SCIENCE ACADEMY
FREEHOLD HIGH SCHOOL
2 Robertsville Road
Freehold, New Jersey 07728
Mr. Joseph Iacullo, Supervisor
732-431-8360 Ext. 2012**

The Computer Science Academy is a four-year program of study for students who wish to explore computer science or computer engineering as a career path. Students take at least one computer science course each year and a specialized mathematics course during the first two years of the program.

The purpose of the Academy is to provide students with the opportunity to undertake a disciplined approach to the study and application of computer science. Students will develop programming and other technical skills where application of scientific methods will yield the creation of high quality, computer-based solutions to real problems.

The goals of the Academy are to give students a solid and rigorous background in computer science principles and requisite mathematical skills to build proficiency in problem solving techniques of computer science; and to provide graduates with the background and the skills necessary to continue their education in college or enter the workforce or military service.

Final approval for enrollment in the Computer Science Academy is contingent upon the successful completion of Algebra 1 with a grade of B or better, as evidenced by the middle school transcript.



**PROGRAM OF STUDY
EFFECTIVE FOR THE CLASS OF 2016**

Grade 9-Required Courses	Grade 10-Required Courses
<i>Honors Computer Science I Honors Math IA - Geometry (2.5 credits) ‡ Honors Math IB - Discrete Math (2.5 credits) English I Modern World History & Geography Lab Biology Classical and World Languages I Health & Physical Education I</i>	<i>Honors Computer Science II Honors Math II - Algebra II English II US History I Science II Classical and World Languages II (recommended) or Elective (5 credits) Health & Physical Education II</i>
Grade 11-Required Courses	Grade 12-Required Courses
<i>AP Computer Science A English III Honors Pre-Calculus or Pre-Calculus US History II Science III Health & Physical Education III *Elective- student choice (5 credits)</i>	<i>Honors Computer Science IV English IV Health & Physical Education IV AP Calculus AB or AP Calculus BC or AP Statistics Health & Physical Education IV **Elective- Music, Art, or Drama (5 credits) ***Financial Literacy (2.5 credits) Elective-student choice (2.5 credits)</i>

Additional State Requirements for Graduation

- *21st Century Life and Career or Career and Technical Education-5 credits*
- **Visual & Performing Arts (Music, Art, or Drama)-5 credits*
- ***Financial Literacy-2.5 credits*

‡ Students who have already completed Geometry with a B or better, as evidenced by the middle school transcript, will be enrolled in Financial Literacy in the first semester of 9th grade and Math IB (Discrete Math) for the second semester.

I have read and understand the Academy's Program of Study.

Name of Student (Print clearly) _____

Student Signature

Date

Parent/Guardian Signature

Date