

**SCIENCE AND ENGINEERING
LEARNING CENTER
MANALAPAN HIGH SCHOOL
30 Church Lane
Englishtown, New Jersey 07726
Ms. Denise Scanga, Supervisor
732-792-7200 Ext. 5015**

The Science and Engineering Specialized Learning Center, located at Manalapan High School, offers a four-year program of interdisciplinary studies for gifted students interested in pursuing careers in mathematics, engineering, or the physical sciences. Students in this learning center undertake an accelerated program in mathematics, science, computer science, and electronics. In conjunction with specialized studies, students receive a comprehensive education in the humanities. Final approval for enrollment in the Learning Center is contingent upon the successful completion of Algebra I with a grade of B or better by the end of the eighth grade, as evidenced by the middle school transcript.

The program includes opportunities for staff and students to interact with representatives from industry and institutions of higher learning in order to acquire an awareness of research methods, current applications, and career opportunities. These field experiences are coordinated with personal counseling which is designed to assist students in postsecondary plans.



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

Grade 9-Required Courses	Grade 10-Required Courses
<i>Computer Programming & Engineering Design</i> <i>Honors Math IA - Geometry (2.5 credits)†</i> <i>Honors Math IB- Algebra II (2.5 credits)</i> <i>English I</i> <i>Modern World History & Geography</i> <i>AP Biology</i> <i>Classical and World Languages I</i> <i>Health & Physical Education I</i>	<i>Honors Math II - Pre-Calculus</i> <i>AP Chemistry</i> <i>AP Statistics</i> <i>English II</i> <i>US History I</i> <i>Classical and World Languages II</i> <i>(recommended) or Elective (5 credits)</i> <i>Health & Physical Education II</i>
Grade 11-Required Courses	Grade 12-Required Courses
<i>*Electronics</i> <i>AP Computer Science A</i> <i>AP Calculus BC</i> <i>AP Physics C: Mechanics</i> <i>English III</i> <i>US History II</i> <i>Health & Physical Education III</i>	<i>Honors Engineering Research</i> <i>Honors Advanced Study Math</i> <i>AP Physics C: Electricity and Magnetism</i> <i>English IV</i> <i>Health & Physical Education IV</i> <i>**Elective-Music, Art, or Drama (5 credits)</i> <i>***Financial Literacy (2.5 credits)</i> <i>Elective- student choice (2.5 credits)</i>

Additional 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 (Algebra II) for the second semester.

Name of Student (Print clearly) _____

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

Student Signature

Date

Parent/Guardian Signature

Date