

# Academy of Science, Technology, Engineering & Math

## Academy Courses By Strand

	<b>Computer Maintenance, Repair and Networking</b>	<b>Computer Programming</b>	<b>Engineering Technology</b>	<b>College-Bound Engineering</b>
10 <sup>th</sup> (1 elective)	<b>Microcomputer Technologies/ Cisco 1+ (single or double period)</b>	<b>Computer Programming 1</b>	<b>Pre-Engineering Or Intro to Engineering Design</b>	<b>Algebra II AND Biology OR Physics (if Biology completed) AND Pre-Engineering Or Intro to Engineering Design</b>
11 <sup>th</sup> (2 electives)	<b>Network Engineering &amp; Management /Cisco 2+ (single or double period)</b> ..... Pre-Engineering Communication Systems Technology Accounting Software Apps by Design Web Site Design Entrepreneurship	<b>AP Computer Programming 2</b> ..... Software Apps by Design Advanced Software Apps by Design Web Site Design AP Calculus AB AP Calculus BC	<b>Communication Systems Technology AND Technological Innovations</b> ..... Microcomputer Technologies/Cisco 1 Network Engineering & Management Accounting Software Apps by Design Web Site Design Entrepreneurship	<b>Pre-Calculus</b> ..... Thermodynamics Honors Chemistry Quantum Physics Software Apps by Design Advanced Software Apps by Design Web Site Design Computer Programming
12 <sup>th</sup> (3 electives)	Same as 11 <sup>th</sup> grade AND <b>Computer Maintenance and Repair Internship</b>	<b>AP Computer Programming 3</b> ..... Same as 11 <sup>th</sup> grade AND Discrete Mathematics Robotics <b>Internship OR College Course</b>	Same as 11 <sup>th</sup> grade AND <b>Engineering Technology Internship</b>	<b>AP Physics AND Calculus (if not taken in 11<sup>th</sup> grade) AND Internship OR Architecture or CAD at Edison OR College Course</b>

Strands with heavy outline are Program Completers identified by the Career and Technology Education Program.

## Academy of Science, Technology, Engineering & Math

### Academy Courses By Strand (cont'd)

	Skilled Trades	Medicine	Forensic Science	Environmental Science
10 <sup>th</sup> (1 elective)	<b>Pre-Engineering</b>	<b>Biology AND Chemistry (Honors preferred)</b>	<b>Biology OR Chemistry (Honors preferred)</b>	<b>Biology OR Chemistry (Honors preferred)</b>
11 <sup>th</sup> (2 electives)	<b>Edison Trades Program</b> ..... Technological Innovations Entrepreneurship	<b>Anatomy &amp; Physiology AND Cellular Physiology AND Genetics</b> <b>OR</b> <b>AP Biology</b> ..... Biological Chemistry Cellular Physiology AP Environmental Science Marine Biology Origins of Science	<b>Biology OR Chemistry AND Forensics</b> ..... Biological Chemistry Cellular Physiology Marine Biology Origins of Science	<b>Biology OR Chemistry AND Earth Science, Horticulture or Marine Biology</b> .....
12 <sup>th</sup> (3 electives)	<b>Edison Trades Program</b> ..... National Labor College Course and Advisory for building trades candidates	<b>AP Biology OR AP Chemistry OR AP Physics</b> <b>AND</b> <b>Research Methods for Science Inquiry</b> <b>OR</b> <b>Internship</b> <b>OR</b> <b>College Course</b>	<b>Biological Chemistry AND Anatomy &amp; Physiology OR AP Biology OR AP Chemistry</b> <b>AND</b> <b>Research Methods for Science Inquiry</b> <b>OR</b> <b>Internship</b> <b>OR</b> <b>College Course</b>	<b>AP Environmental Science</b> <b>AND</b> <b>Internship</b> <b>OR</b> <b>Research Methods</b> <b>OR</b> <b>College Course</b>