

High School Technology STREAM Academy Tracks

Background:

The STREAM Academy tracks will give students an opportunity to explore three different concentrations of Science, Technology, Engineering, and Mathematics content, while incorporating Arts and Reading (STREAM) including, Networking and Telecommunications, Computer Programming, and Aviation and Engineering. An expected guideline for completion of the course sequence from freshman year to their senior year will be shared with the students. The sequence recommendation will help to ensure completion of the required courses in the STREAM Academy track of interest. It is strongly recommended that course be taken in the recommended sequence as some courses will require prerequisites of introductory classes. The STREAM Academy tracks will each culminate with a capstone activity. The capstone is not a required course for the students to take, but it is a recommended course that is designed to give students an extension of the content covered in the STREAM Academy track while giving them an in-depth research opportunity in the STREAM Academy track of interest. The Capstone course is an optional independent study course which will allow the student to work both independently of and collaboratively with a content area teacher.

Students who successfully complete all of the courses in a STREAM Academy track will have the designation placed on their high school transcripts and will be awarded with a certificate of completion.

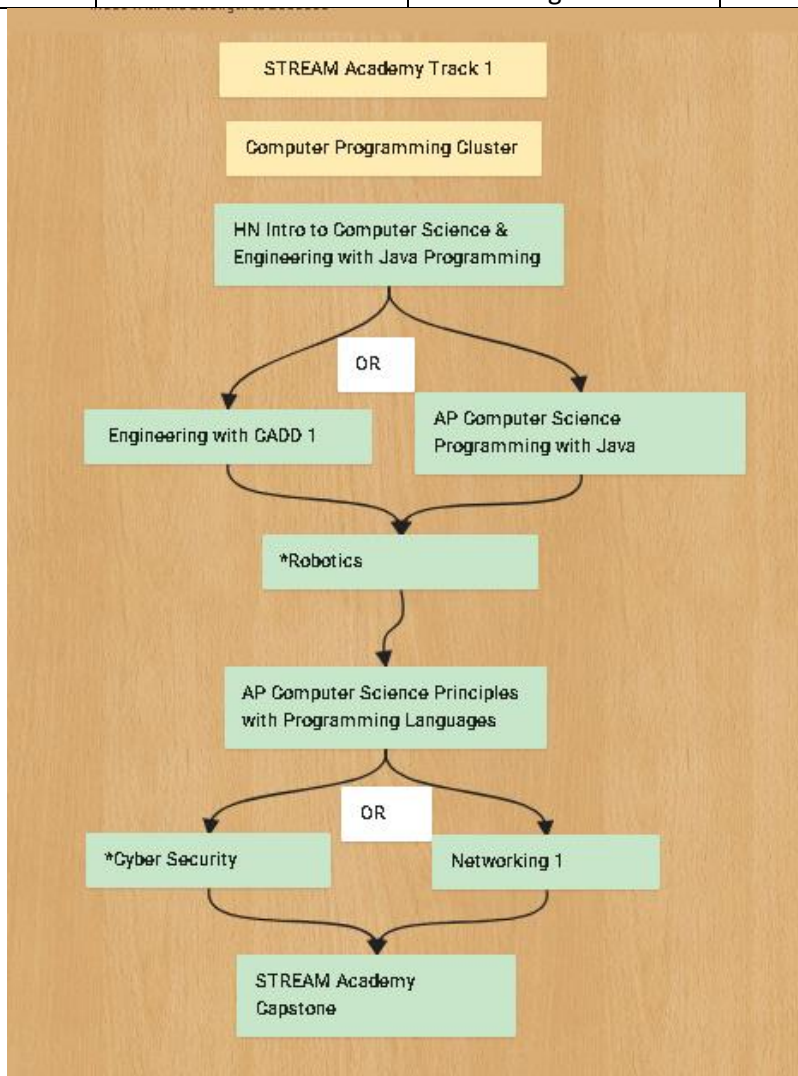
STREAM Academy Tracks:

Computer Programming – STREAM Academy Track 1

Recommended Course Sequence:

() Courses marked with an asterisks (*) are proposed new courses for the district. Robotics is proposed for the 2019-2020 school year and Cyber Security will be proposed for 2020-2021.*

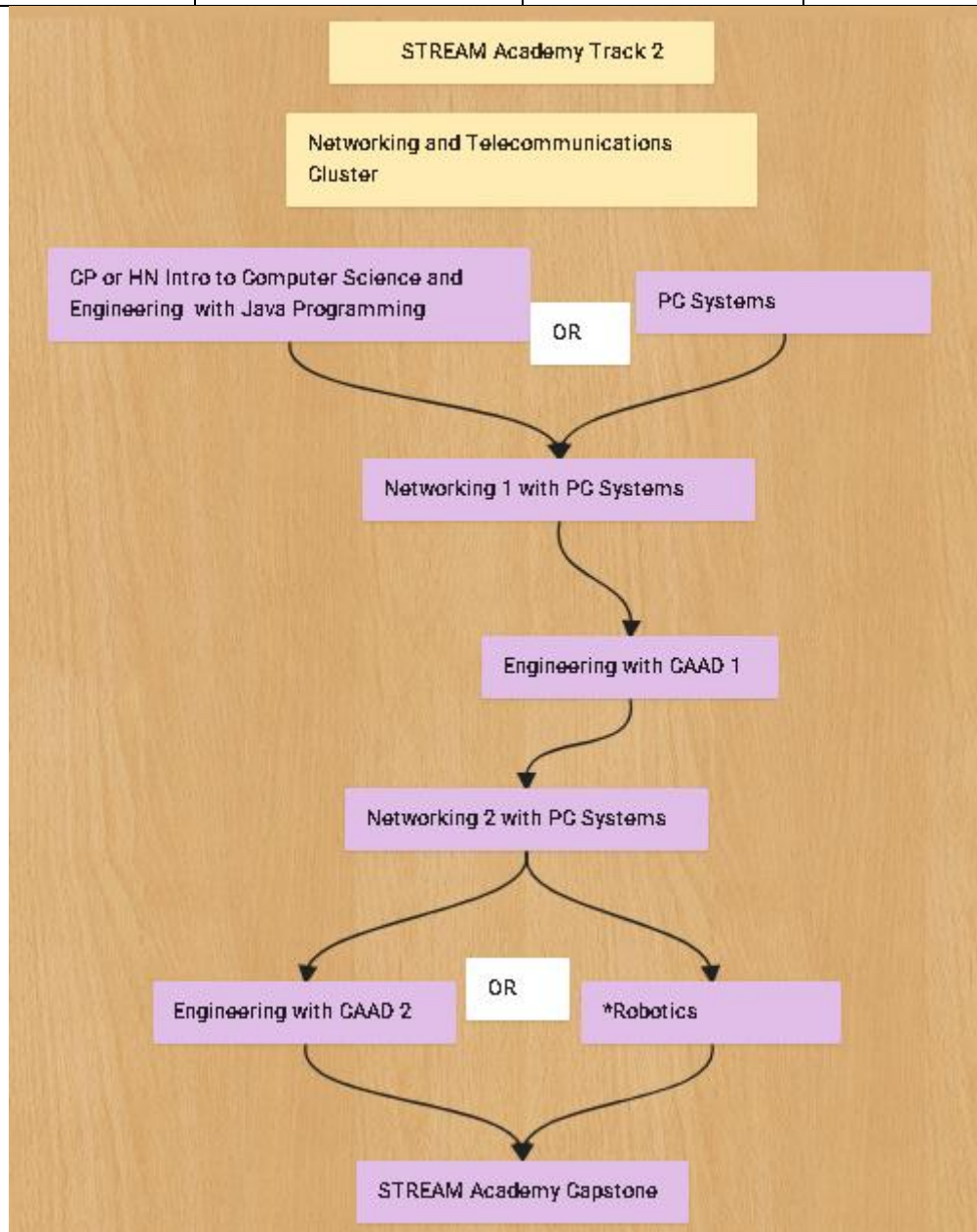
Grade 9	Grade 10	Grade 11	Grade 12
HN Intro to CS & Engineering with Programming	AP Computer Science Programming with Java OR Engineering with CADD 1	AP Computer Science Principles with Programming Languages	Computer Programming Capstone
	*Robotics	*Cybersecurity or Networking I	



Networking and Telecommunications – STREAM Academy Track 2

Recommended Course Sequence:

Grade 9	Grade 10	Grade 11	Grade 12
CP/ HN Intro to Computer Science & Engineering with Programming OR PC Systems	Networking 1 with PC Systems	Networking 2 with PC Systems	Networking and Telecommunications Capstone
	Engineering Design with CAAD 1	Engineering Design with CAAD 2 OR Robotics	



Aviation and Engineering – STREAM Academy Track 3

Recommended Course Sequence: ***(Expected availability in 2020-2021)***

() Courses marked with an asterisks (*) are proposed new courses for the district. Principals of Aviation and Aviation and Engineering Design will be proposed for 2020-2021.*

(+) Courses with a + designation will be offered by ACCC faculty and is subject to fees associated with a concurrent credit enrollment

Grade 9	Grade 10	Grade 11	Grade 12
*Principles of Aviation Studies	*Aviation and Engineering Design	(+) Air Traffic Control	Aviation and Engineering Capstone
Electrical Engineering 1	Electrical Engineering 2	(+) Unmanned Aerial Systems	

