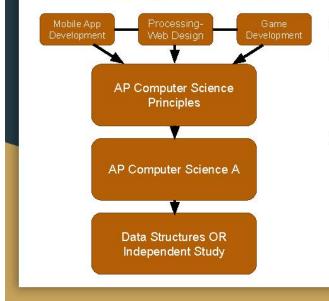
STEM Education at Arapahoe High School

Students interested in a STEM focused curriculum should enroll in classes recommended in the course sequences shown below. Students will not need to enroll in any specific math or science section; any class will work. Freshmen will need to enroll in one semester of Technology Studies where they will study Computer Aided Drafting (CAD). Sophomores will again enroll in one semester of Technology Studies where they will study Manufacturing and Architecture. During the junior and senior years the students will apply the Science, Technology, and Math concepts learned in the Engineering 1 and 2 classes. The other classes listed below are optional and will supplement each student's knowledge base and skills.

Freshman Year		Sophomore Year	
Science:	Integrated Science or Biology	Science:	Biology or Chemistry
Technology:	Technology Studies CAD (Required) Design Projects(Optional) Woods(Optional)	Technology:	Technology Studies Manufacturing (Required) Architecture (Required) Design Projects(Optional) Intro to Comp. Sci.(Optional)
Engineering: None		Engineering: None	
Math:	Algebra 1 or Geometry	Math:	Geometry or Algebra 2
	Junior Year		<u>Senior Year</u>
Science:	Chemistry <i>or</i> Physics <i>or</i> AP Sciences	Science:	Physics <i>or</i> Medicine <i>or</i> AP Sciences
Technology:	Technology Studies(Optional) Design Projects(Optional) Woods(Optional) Intro to Comp. Sci.(Optional)	Technology:	Technology Studies(Optional) Design Projects(Optional) Woods(Optional) Intro to Comp. Sci.(Optional)
Engineering	Engineering 1 -3D printing and CNC manufacturing emphasized	Engineering:	Engineering 2 -Engineering design emphasized
Math:	Algebra 2 or Trig/PreCalc	Math:	Trig/PreCalc or Calculus

Computer Science Course Pathway



ORDER & PRE-REQUISITES

Semester Classes (9 - 12):

- 1. Mobile App (No pre-req) (MWF)
- 2. Process-Web (No pre-req) (T/TR)
- 3. Game Dev (No pre-req) (T/TR)

Year Long Classes MWF(9 - 12)

- 1. AP CS Principles
 - a. Grades 9 12
 - b. Prereq Alg I
- 2. AP Computer Science A
 - a. Grades 10 12
 - b. Prereq Alg II and/or APCSP
- 3. Data Structures or Independent Study
 - a. Grades 11 12
 - b. Prereq AP CSA