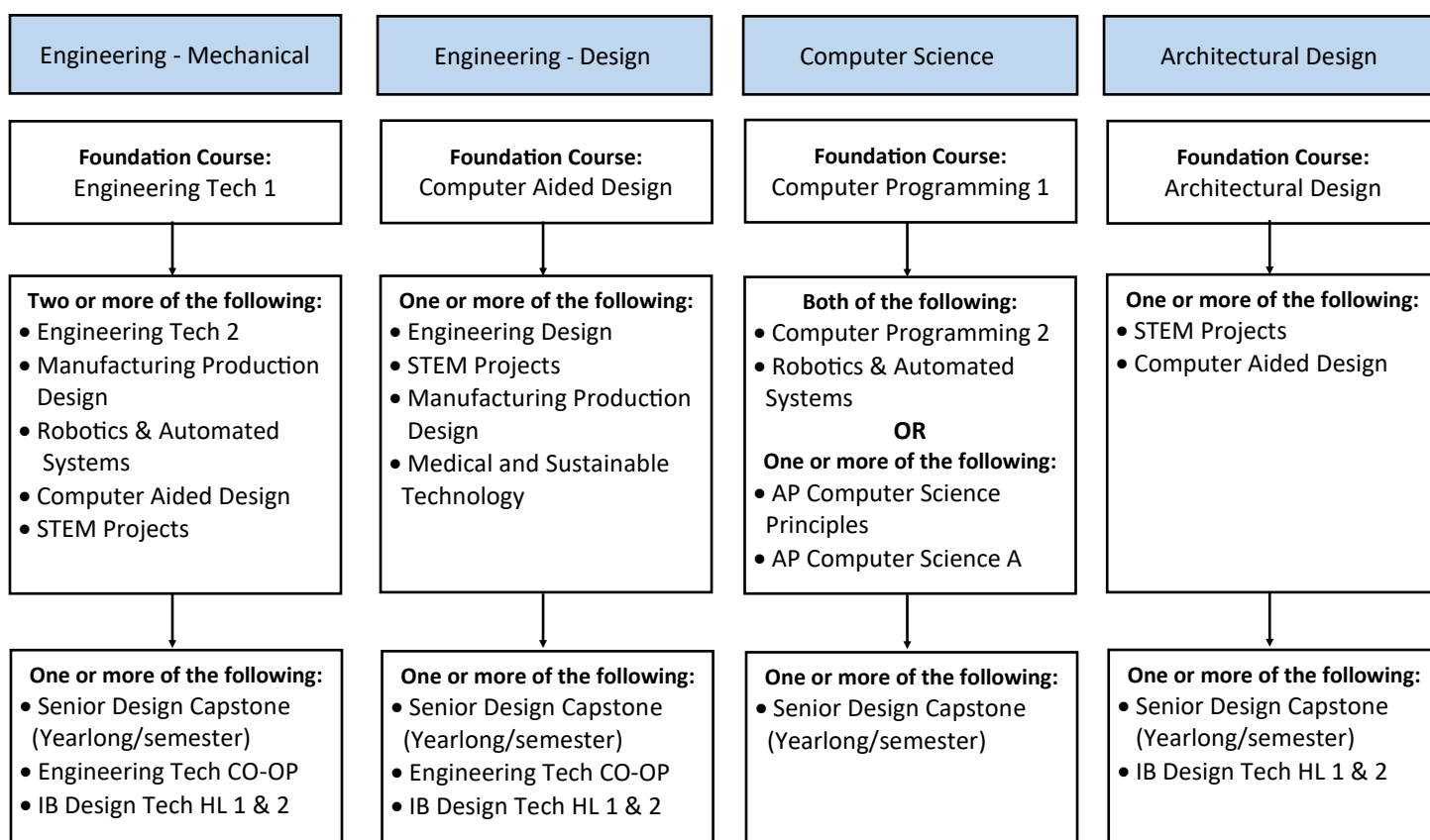# Cherokee Trail High School

Engineering Technologies and Computer Science Pathways

The variety of course offerings in the Engineering Technologies and Computer Science department allow for students to explore many areas of interest and we encourage **ALL** students to try as many courses as possible.

THE PATHWAYS BELOW ARE RECOMMENDED FOR STUDENTS WHO ARE INTERESTED IN PURSUING ONE OF THE AREAS LISTED FOLLOWING HIGH SCHOOL.

Engineering - Mechanical	Engineering - Design	Computer Science	Architectural Design
Foundation Course: Engineering Tech 1	**Foundation Course:** Computer Aided Design	**Foundation Course:** Computer Programming 1	**Foundation Course:** Architectural Design
Two or more of the following: • Engineering Tech 2 • Manufacturing Production Design • Robotics & Automated Systems • Computer Aided Design • STEM Projects	**One or more of the following:** • Engineering Design • STEM Projects • Manufacturing Production Design • Medical and Sustainable Technology	**Both of the following:** • Computer Programming 2 • Robotics & Automated Systems **OR** **One or more of the following:** • AP Computer Science Principles • AP Computer Science A	**One or more of the following:** • STEM Projects • Computer Aided Design
One or more of the following: • Senior Design Capstone (Yearlong/semester) • Engineering Tech CO-OP • IB Design Tech HL 1 & 2	**One or more of the following:** • Senior Design Capstone (Yearlong/semester) • Engineering Tech CO-OP • IB Design Tech HL 1 & 2	**One or more of the following:** • Senior Design Capstone (Yearlong/semester)	**One or more of the following:** • Senior Design Capstone (Yearlong/semester) • IB Design Tech HL 1 & 2

Enrollment in Engineering Technologies Courses, in addition to upper level math and science courses may qualify students for the STEM baccalaureate recognition at graduation. The complete list of requirements for the STEM baccalaureate can be found earlier in this Program of Study.

ALL students are highly encouraged to participate in TSA (Technology Student Association) and seek industry certifications to enhance their learning.