STEM School Foundational Four-Year Plan (2028 and forward)

Four-Year Plan Non-Negotiables

These non-negotiables are required of all students. Options above and beyond can be added later for students as non-required opportunities.

- Minimum Requirement: 23 credits for graduation (4 each – math, science, English; 3 each – social studies, elective focus; 2 – foreign language; 1 – fine art, wellness; 0.5 – PE, personal finance, 1.0 Coding I)
- PBL (project/problem based learning) each year (STEM courses for elective focus requirement)
- Course in Coding, Digital Fabrication, Gaming or Multimedia
- The required HCDE senior year capstone experience must be completed through the STEM IV and Entrepreneurship courses where students develop an entrepreneurial STEM business model
- Inverted science curriculum (Physics/Chem/Bio) with hands-on lab experiences
- College Success course, Wellness course and PE options will be taken through ChSCC courses
- 4th year of science will be a Physics based college course that students can take for high school and/or college credit (course taught collaboratively by high school and college instructors)
- Tech Time Elective Requirement: (2028 and forward)
    - Complete course at STEM in Coding 2, Digital Fabrication, Gaming, Multimedia, OR
    - Substitute for Tech Time Elective a 3+ Hour College Course at Chattanooga State

Year 1 (9th)	Year 2 (10th)	Year 3 (11th)	Year 4 (12th)
Math: Algebra I Honors, Geometry Honors, Algebra II Honors or Precalculus Honors	**Math:** Geometry Honors, Algebra II Honors, Precalculus Honors, Calculus Honors *or CC***	**Math (``):** Algebra II Honors, Precalculus Honors, Calculus Honors *or CC***	**Math (``):** Year 4 Math, Precalculus Honors, Calculus Honors *or CC***
Science: Physical World Concepts Honors	**Science:** Chemistry Honors	**Science:** Biology Honors *or CC***	**Science:** Physics Honors College Course, Scientific Research *or CC***
English: English I Honors	**English:** English II Honors	**English:** English III Honors or CC**	**English:** English IV Honors or CC**
Elective Focus: STEM I (School Based PBL)	**Elective Focus:** STEM II (PBL w/ Business Partner)	**Elective Focus:** STEM III (Choice PBL w/ Business Partner)	**Capstone: STEM IV** Experiential learning, Individual PBL and STEM Portfolio
Social Studies: World History and Geography Honors	**Social Studies:** AP US History	**College Success:** College Success Course through ChSCC (*^^AID*)	**Capstone: Entrepreneurship** (STEM Business Model) Personal Finance/Economics *or CC***
Foreign Language: Spanish I Honors or Spanish II Honors *or CC***	**Foreign Language:** Spanish II Honors or Coding 1 *or CC***	**Electives:** ACT Review (req) and any College Electives	**Electives:** College Elective (^^AID)
Fine Art: Digital Arts	**Government** Government	**PE:** Wellness thru ChSCC (*^^AID)*	**PE:** PE thru ChSCC (*^^AID)*
Digital Art: Digital Arts II	**Coding:** Required: Coding I	**Tech Time (11th or 12th):** Required: Coding I, Optional: Coding II, Video Game Design or Multimedia OR Elective 3+ Hr ChSCC College Course	

***CC: Option to take course at college (ChSCC or UTC)*

^^AID: Financial aid support for ChSCC course if needed through dual enrollment scholarship

``Math: Students in Calculus and/or above math are expected to take these courses at college