

STEM School Foundational Four-Year Plan (2029 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 course 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)
 - o Complete course at STEM in Coding 2, Digital Fabrication, Gaming, Multimedia, OR
 - o Substitute for Tech Time Elective a 3+ Hour College Course at Chattanooga State

Year 1 (9 th)	Year 2 (10 th)	Year 3 (11 th)	Year 4 (12 th)
Math: Algebra I Honors, Geometry Honors, Algebra II Honors or Precalculus Honors	Math: Geometry Honors, Algebra II Honors, Precalculus Honors, Calculus Honors <i>or</i> CC**	Math (`): Algebra II Honors, Precalculus Honors, Calculus Honors <i>or</i> CC**	Math (`): Year 4 Math, Precalculus Honors, Calculus Honors <i>or</i> CC**
Science: Physical World Concepts Honors	Science: Chemistry Honors	Science: Biology Honors <i>or</i> CC**	Science: Physics Honors College Course, Scientific Research <i>or</i> CC**
English: English I Honors	English: English II Honors	English: English III Honors <i>or</i> CC**	English: English IV Honors <i>or</i> 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 (STEM Business Model)
Social Studies: World History and Geography Honors	Social Studies: AP US History	College Success: College Success Course through ChSCC (^AID)	Social Studies: US Gov't/Economics Honors <i>or</i> CC**
Foreign Language: Spanish I Honors or Spanish II Honors <i>or</i> CC**	Foreign Language: Spanish II Honors or Coding 1 <i>or</i> CC**	Electives: ACT Review (req) and any College Electives	Electives: College Elective (^AID)
Fine Art: Digital Arts	Personal Finance: Personal Finance	PE: Wellness thru ChSCC (^AID)	PE: PE thru ChSCC (^AID)
	Coding: Coding I	Tech Time (11th or 12th): Coding I, Coding II, Digital Fab, Gaming 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