CSISD Career & Technology Education

Science, Technology, Engineering and Mathematics (STEM) Cluster

course #	PRACTICUM IN STEM REGULAR/ HONORS			4.0/5.0
Prerequisite(s): Engineering Design and Presentation		Credit	Grade Level	Course Length
		2	11-12	Year
This hands-on project based course is for students interested in continuing their exploration into the world of engineering. Problem solving, communication and teamwork skills will be built on a daily basis as students work through real world situations.				
Fee:				Elective Credit
TEA Course Title		TEA Course Abbrev.		TEA/PIEMS number
Practicum in Science, Technology, Engineering & Mathematics		PRACSTEM		13037400

Justification for new course to be presented to CIP committee, DEIC, and school board:

The CSISD Engineering pathway is in need of an advanced course to follow Concepts in Engineering (1/2 credit) and Engineering Design and Presentation (1 credit). The above listed course will allow the instructor to incorporate creative projects for students to:

1) Demonstrate professional standards as required by business/industry;
2) Apply critical thinking and problem solving;
3) Develop leadership and teamwork skills;
4) Utilize oral and written communication, including technical terminology; and
5) Build a base of knowledge and skills that are required for a career in the field of engineering.

Due to the dynamic nature of this cluster, we are researching educational and community opportunities/ partnerships that will provide our students with valuable resources in and out of the classroom.

CSISD Career & Technology Education

Health Science Technology Cluster

course #	Practicum in Health Science – Emergency Medical Technician			4.0/ 5.0
Prerequisite(s): Introduction to Medicine, Completion of required paperwork and immunizations, Admission committee approval due to enrollment limitations*.	**Credit**	**Grade Level**	**Course Length**	
	2	12	Year	
If you are truly interested in obtaining your EMT-Basic as a career or as a beginning to your career in the medical field, consider this dynamic course taught in partnership with TEEX (Texas A&M Extension Service) Emergency Medical Services Academy. This is **a two part program** with the first part available to you in your senior year at AMCHS. The second part of the training will be the 112 clinical/field hours that will be completed the summer after graduation with TEEX. *In order to offer health science practicum opportunities for as many students as possible, EMT will be offered first to those students meeting all criteria who have not yet completed a practicum course.				
Fee: Textbook – student owned, approximately $95 (financial assistance available)			Elective Credit	
TEA Course Title	**TEA Course Abbrev.**		**TEA/PEIMS number**	
Practicum in Health Science I (previously approved) or Practicum in Health Science II	PRACHLSC PRACHLS2		13020500 13020510	

Justification for new course to be presented to CIP committee, DEIC, and school board:
CSISD is seeking to offer as many students as possible in-depth and applied opportunities in the health/medical fields. With the assistance of TEEX, we would be able to provide students with the initial 144 classroom/skills lab hours required for the EMT Basic certification. To complete the certification, students must commit to 112 clinical/field hours the summer after graduation. A parent/student meeting will be held to cover all the requirements for the EMT – Basic Certification with TEEX and HST instructors.