

Clear Creek ISD Four Year Plan
Foundation High School Program (FHSP) with Science, Technology, Engineering & Mathematics (STEM) Endorsement

Name: _____ ID #: _____ High School: _____ Grade: _____

Discipline	Credits	Curriculum Requirements
English	4	English 1, 2, 3; 4 th English: English IV; IS English; Literary Genres; Creative Writing; Humanities; Communication Applications; Debate III; Oral Interpretation III; IS Speech; IS Journalism; Newspaper III, Yearbook III; AP English Literature & Composition; Dual Credit; or College Prep English
Math	4	Algebra I, Geometry, Algebra II; 4 th Math: Precalculus; IS Math; AQR; AP Statistics; College Prep Math; or Dual Credit
Science	4	Biology, Chemistry, Physics; 4 th Science: Aquatic; Astronomy; Earth & Space; Environmental Systems; AP Biology; AP Chemistry; AP Physics 1; AP Physics 2; AP Physics C; AP Environmental; Adv Animal; Anatomy & Physiology; Pathophysiology; Food Science; Forensic Science; Adv Biotechnology; Scientific Research & Design; Engineering Design & Problem Solving; EDD; Principles of Engineering; or Dual Credit
Social Studies	3	World Geography or World History; US History; US Government; Economics
LOTE	2	American Sign Language; Chinese; French; German; Latin; or Spanish
Physical Education	1	Foundations; Aerobics; Individual/Team Sports; Athletics; Band; Dance Team; Dance/PE; JROTC; or Alt PE Waiver
Fine Arts	1	Art; AP Art; AP Art History; Band; Choir; Dance; Dance Team; Floral Design; Music Theory; AP Music Theory; Orchestra; or Theatre

STEM A – CTE (7) (*Advanced CTE 3 rd or 4 th Course)	STEM B – MATH (7)	STEM C – SCIENCE (7)	STEM D – COMBO (7) (no more than 2 categories; may include AP Comp Sci)
CTE 1:	Math 5:	Science 5:	STEM Combo 1:
CTE 2:	Elective 1:	Elective 1:	STEM Combo 2:
CTE 3*:	Elective 2:	Elective 2:	STEM Combo 3:
CTE 4*:	Elective 3:	Elective 3:	Elective 1:
Elective 1:	Elective 4:	Elective 4:	Elective 2:
Elective 2:	Elective 5:	Elective 5:	Elective 3:
Elective 3:	Elective 6:	Elective 6:	Elective 4:
Total Credits	26	Distinguished Level of Achievement: Yes (Includes Algebra II)	

	Intermediate		9 th Grade		10 th Grade		11 th Grade		12 th Grade	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
1										
2										
3										
4										
5										
6										
7										

Student Signature: _____ **Parent Signature:** _____ **Date:** _____

Signatures above indicate approval is granted to graduate on the FHSP with STEM Endorsement.

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CTE Career Cluster: STEM

STEM A – CTE

(A coherent sequence of courses for four or more credits in CTE, including at least one advanced CTE course)

Course #	Course Name	Grade Level	Duration	Credit(s)	AAR	GPA	ADV
7900	INTRODUCTION TO ENGINEERING DESIGN AA	9-12	YR	1	CTE	1	
7902	GATEWAY TO ENGINEERING I	8	SM	0.5	CTE	n/a	
7903	GATEWAY TO ENGINEERING II	8	SM	0.5	CTE	n/a	
7910	PRINCIPLES OF ENGINEERING AA	10-12	YR	1	CTE	1	YES
7911	DIGITAL ELECTRICS AA	10-12	YR	1	CTE	1	YES
7920	ARCHITECTURE & ENGINEERING AA	10-12	YR	1	CTE	1	YES
7921	AEROSPACE ENGINEERING AA	11-12	YR	1	CTE	1	YES
7930	ENGINEERING DESIGN & PROBLEM SOLVING	11-12	YR	1	SCI	2	YES
7940	ENGINEERING DESIGN & DEVELOPMENT AA	11-12	YR	1	SCI	1	YES
7951	FORENSIC SCIENCE	11-12	YR	1	SCI	2	YES
7961	BIOTECHNOLOGY AA	9-12	YR	1	CTE	1	
7963	ADVANCED BIOTECHNOLOGY AA	10-12	YR	1	SCI	1	YES
7970	BROADBAND COMMUNICATIONS I	11-12	YR	2	CTE	2	YES
7971	BROADBAND COMMUNICATIONS II	12	YR	2	CTE	2	YES
7990	PRACTICUM IN BIOTECHNOLOGY	12	YR	2	CTE	2	YES

STEM B – MATH

(Three credits in mathematics by successfully completing Algebra II and two additional mathematics courses for which Algebra II is a prerequisite)

Course #	Course Name	Grade Level	Duration	Credit(s)	AAR	GPA	ADV
2212	IS COLLEGE ALGEBRA DUAL CREDIT	11-12	SM	0.5	MTH	n/a	YES
2216	IS: FINITE MATH DUAL CREDIT	11-12	SM	0.5	MTH	n/a	YES
2311	PRECALCULUS	11-12	YR	1	MTH	2	YES
2312	PRECALCULUS DUAL CREDIT	11-12	SM	1	MTH	n/a	YES
2321	PRECALCULUS PAPG	11-12	YR	1	MTH	1	YES
2400	IS MATH: CALCULUS	11-12	YR	1	MTH	2	YES
2421	CALCULUS AB APG	11-12	YR	1	MTH	1	YES
2521	CALCULUS BC APG	12	YR	1	MTH	1	YES
2621	STATISTICS APG	11-12	YR	1	MTH	1	YES
2731	ADVANCED QUANTITATIVE REASONING	12	YR	1	MTH	2	YES
2999	IS: MATH AA	11-12	SM	0.5	MTH	1	YES

STEM C – SCIENCE

(Four credits in science by successfully completing Chemistry, Physics and two additional science courses)

Course #	Course Name	Grade Level	Duration	Credit(s)	AAR	GPA	ADV
3321	BIOLOGY APG	11-12	YR	1	SCI	1	YES
3521	CHEMISTRY APG	11-12	YR	1	SCI	1	YES
3631	PHYSICS 1 APG	10-11	YR	1	SCI	1	YES
3641	PHYSICS 2 APG	11-12	YR	1	SCI	1	YES
3723	PHYSICS C APG	11-12	YR	1	SCI	1	YES
3801	EARTH & SPACE SCIENCE	11-12	YR	1	SCI	2	YES
3811	ENVIRONMENTAL SYSTEMS	11-12	YR	1	SCI	2	YES
3821	ENVIRONMENTAL SCIENCE APG	11-12	YR	1	SCI	1	YES
3831	AQUATIC SCIENCE	11-12	YR	1	SCI	2	YES
3851	ASTRONOMY	11-12	YR	1	SCI	2	YES
7021	ADVANCED ANIMAL SCIENCE	11-12	YR	1	SCI	2	YES
7530	PATHOPHYSIOLOGY	11-12	YR	1	SCI	2	YES
7550	ANATOMY & PHYSIOLOGY	11-12	YR	1	SCI	2	YES
7551	ANATOMY & PHYSIOLOGY AA	11-12	YR	1	SCI	1	YES
7620	FOOD SCIENCE	11-12	YR	1	SCI	2	YES
7930	ENGINEERING DESIGN & PROBLEM SOLVING	11-12	YR	1	SCI	2	YES
7940	ENGINEERING DESIGN DEVELOPMENT AA	11-12	YR	1	SCI	1	YES
7951	FORENSIC SCIENCE	11-12	YR	1	SCI	2	YES
7963	ADVANCED BIOTECHNOLOGY AA	10-12	YR	1	SCI	1	YES
7997	SCIENTIFIC RESEARCH & DESIGN	11-12	YR	1	SCI	2	YES
7999	IS: SCIENTIFIC RESEARCH & DESIGN AA	11-12	YR	1	SCI	1	YES

STEM D – COMBINATION

(A coherent sequence of three credits from no more than two of the categories represented A, B, or C.

AP Computer Science may be combined with one additional category A, B, or C)