STEM ENDORSEMENT

GRADE: 9 10 11 12 NAME: **FHSP** PART 1 PART 2 **ALT NOTES ENGLISH** English 1 STAAR: I II III English 2 4 STAAR: I II III English 3 4th English Advanced Course 4th 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** Algebra I STAAR: I II III Geometry Algebra II 4th Math Advanced Course 4th Math: Precalculus; Independent Study Math; Advanced Quantitative Reasoning; AP Statistics; College Prep Math; or Dual Credit. **SCIENCE Biology** STAAR: I II III Chemistry 4 Advanced Course **Physics** Advanced Course 4th Science Advanced Course 4th 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** W Geog/W History **US** History 3 STAAR: I II III **US** Government **Economics** LOTE SP FR LN GR CH ASL SP FR LN GR CH ASL Sub for 2nd credit: W Geography, W History, or LOTE; ARD/504 Sub for both credits: ELA/Math/Science/Social Studies or CTE/Tech App's PHYSICAL ED Foundations; Aerobics; Individual/Team Sports; Athletics; Band; Dance Team; Dance/PE; JROTC; or Alt PE Waiver Art; AP Art; AP Art History; Band; Choir; Dance; Dance Team; Floral Design; Music Theory; AP Music Theory; Orchestra; or Theatre ENDORSEMENT REQUIREMENTS AND ELECTIVES STEM A - CTE STEM D - COMBO (*Advanced CTE STEM B - MATH STEM C - SCIENCE (no more than 2 categories; 3rd or 4th Course) may include AP Comp Sci) CTE 1: Math 5: Science 5: STEM Combo 1: CTE 2: STEM Combo 2: Elective 1: Elective 1: 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: ADDITIONAL CREDITS TOTAL CREDITS 9 10 11 12 **SUBTOTAL CUMULATIVE**

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	State #	Duration	Credit(s)	AAR	GPA	ADV
7900	INTRODUCTION TO ENGINEERING DESIGN AA	N1303742	YR	1	CTE	1	
7902	GATEWAY TO ENGINEERING I	N1303756	SM	0.5	CTE	n/a	
7903	GATEWAY TO ENGINEERING II	N1303758	SM	0.5	CTE	n/a	
7910	PRINCIPLES OF ENGINEERING AA	N1303743	YR	1	CTE	1	YES
7911	DIGITAL ELECTRICS AA	N1303744	YR	1	CTE	1	YES
7920	ARCHITECTURE & ENGINEERING AA	N1303747	YR	1	CTE	1	YES
7921	AEROSPACE ENGINEERING AA	N1303745	YR	1	CTE	1	YES
7930	ENGINEERING DESIGN & PROBLEM SOLVING	13037300	YR	1	SCI	2	YES
7940	ENGINEERING DESIGN & DEVELOPMENT AA	13037300	YR	1	SCI	1	YES
7951	FORENSIC SCIENCE	13029500	YR	1	SCI	2	YES
7961	BIOTECHNOLOGY AA	13036300	YR	1	CTE	1	
7963	ADVANCED BIOTECHNOLOGY AA	13036400	YR	1	SCI	1	YES
7970	BROADBAND COMMUNICATIONS I	13036800	YR	2	CTE	2	YES
7971	BROADBAND COMMUNICATIONS II	13036900	YR	2	CTE	2	YES
7990	PRACTICUM IN BIOTECHNOLOGY	13037410	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	State #	Duration	Credit(s)	AAR	GPA	ADV
2211/2214	ALGEBRA II/SHELTERED	03100600	YR	1	MTH	2	YES
2221	ALGEBRA II PAPG	03100600	YR	1	MTH	1	YES
2212	IS COLLEGE ALGEBRA DUAL CREDIT	03102500	SM	0.5	MTH	n/a	YES
2216	IS: FINITE MATH DUAL CREDIT	03102501	SM	0.5	MTH	n/a	YES
2311	PRECALCULUS	03101100	YR	1	MTH	2	YES
2312	PRECALCULUS DUAL CREDIT	03101100	SM	1	MTH	n/a	YES
2314	PRECALCULUS SHELTERED	03101100	YR	1	MTH	2	YES
2321	PRECALCULUS PAPG	03101100	YR	1	MTH	1	YES
2322	PRECALCULUS PAPG SHELTERED	03101100	YR	1	MTH	1	YES
2400	IS MATH: CALCULUS	03102500	YR	1	MTH	2	YES
2421	CALCULUS AB APG	A3100101	YR	1	MTH	1	YES
2521	CALCULUS BC APG	A3100102	YR	1	MTH	1	YES
2621	STATISTICS APG	A3100200	YR	1	MTH	1	YES
2731	ADVANCED QUANTITATIVE REASONING	03102510	YR	1	MTH	2	YES
2734	ADVANCED QUANTITATIVE REASONING SHELTERED	03102510	YR	1	MTH	2	YES
2999	IS: MATH AA	03102500	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	State #	Duration	Credit(s)	AAR	GPA	ADV
3211/3214	CHEMISTRY/SHELTERED	03040000	YR	1	SCI	2	YES
3221	CHEMISTRY PAPG	03040000	YR	1	SCI	1	YES
3611	PHYSICS	03050000	YR	1	SCI	2	YES
3321	BIOLOGY APG	A3010200	YR	1	SCI	1	YES
3521	CHEMISTRY APG	A3040000	YR	1	SCI	1	YES
3631	PHYSICS 1 APG		YR	1	SCI	1	YES
3641	PHYSICS 2 APG		YR	1	SCI	1	YES
3723	PHYSICS C APG	A3050002	YR	1	SCI	1	YES
3801	EARTH & SPACE SCIENCE	03060200	YR	1	SCI	2	YES
3811	ENVIRONMENTAL SYSTEMS	03020000	YR	1	SCI	2	YES
3814	ENVIRONMENTAL SYSTEMS SHELTERED	03020000	YR	1	SCI	2	YES
3821	ENVIRONMENTAL SCIENCE APG	A3020000	YR	1	SCI	1	YES
3831	AQUATIC SCIENCE	03030000	YR	1	SCI	2	YES
3834	AQUATIC SCIENCE SHELTERED	03030000	YR	1	SCI	2	YES
3851	ASTRONOMY	03060100	YR	1	SCI	2	YES
3861	SCIENTIFIC RESEARCH & DESIGN	13037200	YR	1	SCI	2	YES
7021	ADVANCED ANIMAL SCIENCE	13000700	YR	1	SCI	2	YES
7530	PATHOPHYSIOLOGY	13020800	YR	1	SCI	2	YES
7550	ANATOMY & PHYSIOLOGY	13020600	YR	1	SCI	2	YES
7551	ANATOMY & PHYSIOLOGY AA	13020600	YR	1	SCI	1	YES
7620	FOOD SCIENCE	13023000	YR	1	SCI	2	YES
7930	ENGINEERING DESIGN & PROBLEM SOLVING	13037300	YR	1	SCI	2	YES
7940	ENGINEERING DESIGN DEVELOPMENT AA	13037300	YR	1	SCI	1	YES
7951	FORENSIC SCIENCE	13029500	YR	1	SCI	2	YES
7963	ADVANCED BIOTECHNOLOGY AA	13036400	YR	1	SCI	1	YES
7997	SCIENTIFIC RESEARCH & DESIGN	13037210	YR	1	SCI	2	YES
7999	IS: SCIENTIFIC RESEARCH & DESIGN AA	13037210	YR	1	SCI	1	YES

STEM D - COMBINATION