

CTE Clusters, Endorsements and Pathways
Akins High School
Science, Technology, Engineering & Math Academy - STEM
2016 - 2017

Note: Endorsement requires completion of 4 credits from one of the following career pathways.

** All courses are offered for one credit unless otherwise noted.

"Courses italicized or in quotation" count as advanced courses in the career pathway selected for an endorsement.

1. Health Science - Endorsement: Public Services

Career Pathway: Biomedical - PLTW

Year 1	Year 2	Year 3	Year 4
Principles of Biomedical Science (8434.HT0C.Y)	Human Body Systems (8436.HT0C.Y)	Medical Interventions (8438.HT0C.Y)	<i>"Biomedical Innovation"</i> (8440.HT0C.Y)

2. Science, Technology, Engineering & Mathematics - Endorsement: STEM

Career Pathway: Engineering - PLTW

Year 1	Year 2	Year 3	Year 4
Math Requirement Not Met Concepts of Engineering and Technology (8680.RC0C.Y)	Intro to Engineering Design (8760.HT0C.Y)	Principles of Engineering (8762.HT0C.Y) and <i>"Digital Electronics"</i> (8764.HT0C.Y) and <i>"Aerospace Engineering"</i> (8766.HT0C.Y) and/or <i>"Computer Integrated Manufacturing"</i> (8770.HT0C.Y) and/or <i>"Civil Engineering & Architecture"</i> (8768.HT0C.Y)	<i>"Aerospace Engineering"</i> (8766.HT0C.Y) or <i>"Computer Integrated Manufacturing"</i> (8770.HT0C.Y) or <i>"Civil Engineering & Architecture"</i> (8768.HT0C.Y) or <i>"Engineering Design & Development"</i> (8772.HT0C.Y) or <i>"Scientific Research & Design - Rockets"</i> (8718.HC1C.Y)

Career Pathway: Engineering - PLTW

Year 1	Year 2	Year 3	Year 4
Math Requirement Met Intro to Engineering Design (8760.HT0C.Y)	Principles of Engineering (8762.HT0C.Y)	<i>"Digital Electronics"</i> (8764.HT0C.Y) and <i>"Aerospace Engineering"</i> (8766.HT0C.Y) and/or <i>"Computer Integrated Manufacturing"</i> (8770.HT0C.Y) and/or <i>"Civil Engineering & Architecture"</i> (8768.HT0C.Y) and/or <i>"Scientific Research & Design - Rockets"</i> (8718.HC1C.Y)	<i>"Aerospace Engineering"</i> (8766.HT0C.Y) or <i>"Computer Integrated Manufacturing"</i> (8770.HT0C.Y) or <i>"Civil Engineering & Architecture"</i> (8768.HT0C.Y) or <i>"Engineering Design & Development"</i> (8772.HT0C.Y) or <i>"Scientific Research & Design 2 - Rockets"</i> (8722.HC1C.Y)

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ALTERNATE COURSES: At least 2 full credits of alternate courses must be selected from the list above. These courses cannot be selected anywhere else on the choice sheet. These courses will be substituted for any course you request that is not offered, for which you do not have prerequisite, or for which you do not have approval.

COURSE TITLE	CREDIT (CIRCLE ONE)	
	.5	1.0
	.5	1.0
	.5	1.0

It is the policy of the Austin Independent School District not to discriminate on the basis of race, color, national origin, sex, or handicap in its educational and career and technical education programs, services, or activities as required by the Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.