

STEM

2011-2012

Science, Technology, Engineering and Math Academy

Choose a Major

A Major consists of 3 or 4 courses in a sequence. Major courses are organized in sequence from left to right. Find the Major of your choice and circle the course or courses that you should take next in the sequence. If you have not taken any courses in the Major of your choice, circle the course in the far left column.

STEM Engineering Foundation Courses

Year 1		Year 2		Year 3		Year 4	
Algebra I (concurrently)	Concepts of Engineering and Technology (8680.RC0C.Y)	Intro to Engineering Design (w) (8760.HT0C.Y)		Principles of Engineering (w) and Digital Electronics (w) and STEM Elective 1		STEM Elective 2	
Geometry (concurrently) or Gateway 2 technology	Intro to Engineering Design (w) (8760.HT0C.Y)	Principles of Engineering (w) (8762.HT0C.Y)		Digital Electronics (w) (8764.HT0C.Y) and STEM Elective 1		STEM Elective 2	

Aerospace Engineering Major

Elective 1 Aerospace Engineering (w) (8766.HT0C.Y) <i>(8766.HT0C.Y)</i>	Elective 2 Rockets (Scientific Research & Design 2)(w) <i>(8716.HC0C.Y) & (8720.HC0C.Y)</i>
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Mechanical and Industrial Engineering Major

Elective 1 Computer Integrated Manufacturing (w) (8770.HT0C.Y)	Elective 2 <i>Engineering Design and Development (w)</i> (8772.HT0C.X) or <i>Engineering Design & Problem Solving (w)</i> (8730.H(Y))
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Architecture and Civil Engineering Major

Elective 1 Civil Engineering and Architecture (w) (8768.HT0C.Y)	Elective 2 <i>Engineering Design and Development</i> (8772.HT0C.X)
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Soaring to new Heights in Ingenuity and Innovation

Other Courses

"Earn Your Wings"

COURSE	Permission from Ms. Cuthbertson required, Rm. 267	NOTES
Career Prep (8905.RC0C.Y) <i>(application only)</i>	Career Prep (paid employment) (8990.RC00.Y)	Must be 16 or older 2 or 3 credits
Work Release	4th period 8th period	Must also be enrolled in Career Prep

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