






HEALTH SCIENCE PATHWAY

[Early Planning Guide]



	Pre-allied Health Academy* 	Medical Interventions/ Biomedical Innovations* 	Pre-professional Nursing 
7th GRADE	<p>Challenge yourself to take the highest level math, science and communication arts you can handle</p> <p>Recommended: PLTW science courses (if offered in your district)</p>	<p>Challenge yourself to take the highest level math, science and communication arts you can handle</p> <p>Recommended: PLTW science courses (if offered in your district)</p>	<p>Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle</p> <p>Recommended: PLTW science courses (if offered in your district)</p>
8th GRADE	<p>Challenge yourself to take the highest level math, science and communication arts you can handle</p> <p>Recommended: PLTW science courses (if offered in your district)</p>	<p>Challenge yourself to take the highest level math, science and communication arts you can handle</p> <p>Recommended: PLTW science courses (if offered in your district)</p>	<p>Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle</p> <p>Recommended: PLTW science courses (if offered in your district)</p>
9th GRADE	<p>Alg I or higher (e.g. Geometry), Biology or Chemistry</p> <p>Recommended: Anatomy/Physiology</p>	<p>Alg I or higher (e.g. Geometry)</p> <p>Recommended: PLTW Principles of Biomedical Sci (PBS) (if offered in your district) or Anatomy/Physiology Biology, Chemistry or other rigorous related science course</p>	<p>Alg I or higher (e.g. Geometry), Biology or Chemistry</p> <p>Recommended: Principles of Biomedical Science Suggested: Volunteer work</p>
10th GRADE	<p>Biology or Chemistry</p> <p>Recommended: Anatomy/Physiology</p>	<p>Recommended: PLTW Human Body Systems Sci.(HBS) (if offered in your district) or Anatomy/Physiology Biology, Chemistry or other rigorous related science course</p>	<p>Biology or Chemistry</p> <p>Recommended: Anatomy/Physiology or Human Body Systems and Alg II Suggested: Volunteer work</p>
11th GRADE	<p>Pre-allied Health Academy*</p> <p><i>See full prerequisite list on course page</i></p>	<p>Medical Interventions/Biomedical Innovations*</p> <p><i>*It is highly recommended to take as many science lab courses as possible prior to this course. See full prerequisite list on course page</i></p>	<p>Biology II or Chemistry II, Anatomy/Physiology</p> <p>Recommended: Alg II and other rigorous science course Optional: Pre-allied Health or Medical Interventions/ Biomedical Innovations at Summit Technology Academy</p>
12th GRADE	<p><i>* may be taken in 11th or 12th grade</i></p>	<p><i>* may be taken in 11th or 12th grade</i></p>	<p>Pre-professional Nursing</p> <p><i>See full prerequisite list on course page</i></p>



COMPUTER SCIENCE

PATHWAY

[Early Planning Guide]













	Networking I & II* 	Software Development I & II* 	CyberSecurity 
7th GRADE 	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle
8th GRADE 	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle
9th GRADE 	Alg I or higher (e.g. Geometry) Recommended: CHAOS I-offered through R7 Online	Alg 1 or higher (e.g. Geometry) Recommended: computer programming class or Alg I	Alg 1 or higher (e.g. Geometry) Recommended: CHAOS I
10th GRADE 	Geometry or higher (e.g. Alg II) Recommended: CHAOS I or II-offered through R7 Online	Geometry or higher (e.g. Alg II) Recommended: computer programming class or Geometry	Geometry or higher (e.g. Alg II) Recommended: CHAOS II
11th GRADE 	Networking I & II* <i>See full prerequisite list on course page</i>	Software Development I & II* <i>See full prerequisite list on course page</i>	Networking I & II
12th GRADE 	<i>* may be taken in 11th or 12th grade</i>	<i>* may be taken in 11th or 12th grade</i>	CyberSecurity Prerequisite: Networking I & II <i>See full prerequisite list on course page</i>



MIC EARLY COLLEGE DEGREE PATHWAY

[Early Planning Guide]



	MIC for Networking 	MIC for CyberSecurity 	MIC for Software Development I & II 	MIC for Drafting and Design Technology 
7th GRADE 	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle Recommended: PLTW Engineering courses (if offered in your district)
8th GRADE 	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle	Challenge yourself to take the highest level math, science, communication arts and computer science you can handle Recommended: PLTW Engineering courses (if offered in your district)
9th GRADE 	Alg I or higher (e.g. Geometry) Recommended: CHAOS I	Alg I or higher (e.g. Geometry) Recommended: CHAOS I	Geometry or computer programming class/ experience	Alg I or higher (e.g. Geometry) Recommended: Engineering class or PLTW Intro. to Engineering (if offered in your district)
10th GRADE 	Geometry or higher (e.g. Alg II) Recommended: CHAOS I or II	Alg II Recommended: CHAOS I or II	Alg II or computer programming class	Geometry or higher (e.g. Alg II) College summer courses required Recommended: Engineering class or PLTW Principles Engineering (if offered in your district)
11th GRADE 	Networking I & II Commit to completing high school graduation requirements except for 4th English credit and remaining elective credit prior to senior year	Networking I & II Commit to completing high school graduation requirements except for 4th English credit and remaining elective credit prior to senior year	Software Development I & II Commit to completing high school graduation requirements except for 4th English credit and remaining elective credit prior to senior year Prerequisite: Alg II or previous programming knowledge	Digital Electronics and Computer Integrated Manufacturing College summer courses required Commit to completing high school graduation requirements except for 4th English credit and remaining elective credit prior to senior year
12th GRADE 	Internship in MIC Class at STA, Internship, and College Classes <i>See full prerequisite list on course page</i>	Internship in MIC Class at STA, Internship, and College Classes <i>See full prerequisite list on course page</i>	Internship in MIC Class at STA, Internship, and College Classes <i>See full prerequisite list on course page</i>	Internship in MIC Class at STA, Internship and College Classes College summer courses required <i>See full prerequisite list on course page</i>













CREATIVE SCIENCE

PATHWAY

[Early Planning Guide]



	Digital Media Technology* 	Summit International Studies Academy* 	Pre-professional Education Cadet 	Hospitality & Tourism Management Program* 
7th GRADE 	Challenge yourself to take the highest level math, science and communication arts you can handle in addition to any fine arts class offered	Challenge yourself to take the highest level math, science, communication arts and social studies you can handle Recommended: Any modern language class that is offered	Challenge yourself to take the highest level math, science and communication arts you can handle in addition to any fine arts class offered Recommended: Any practical art class that is offered	Challenge yourself to take the highest level math, science and communication arts you can handle in addition to any fine arts class offered Recommended: Family and consumer science classes
8th GRADE 	Challenge yourself to take the highest level math, science and communication arts you can handle in addition to any fine arts class offered	Challenge yourself to take the highest level math, science, communication arts and social studies you can handle Recommended: Any modern language class that is offered	Challenge yourself to take the highest level math, science and communication arts you can handle in addition to any fine arts class offered Recommended: Any practical art class that is offered	Challenge yourself to take the highest level math, science and communication arts you can handle in addition to any fine arts class offered Recommended: Family and consumer science classes
9th GRADE 	Alg I or higher (e.g. Geometry), Fine arts	Highest level math, science, communication arts, social studies and modern language you can handle	Alg I or higher (e.g. Geometry) Recommended: Intro to Human Services course	Alg I or higher (e.g. Geometry), Culinary Foundations Recommended: Intro to Human Services course
10th GRADE 	Geometry, Fine arts Recommended: Computer Application or Programming	Highest level math, science, communication arts, social studies and modern language you can handle	Child Development, Child or Adolescent Psychology, Psychology, Sociology Recommended: Parenting Course	Int. Design, Personal Image, Foods 2 Recommended: START/Intro to Hospitality
11th GRADE 	Digital Media Technology* <i>See full prerequisite list on course page</i>	Summit International Studies Academy* <i>See full prerequisite list on course page</i>	Child Development, Child or Adolescent Psychology, Psychology, Sociology Recommended: Parenting Course, Preschool Course	Hospitality & Tourism Management Program* <i>See full prerequisite list on course page</i> Int. Design, Personal Image, Foods 2, Pro Start I Recommended: START/Intro to Hospitality
12th GRADE 	<i>* may be taken in 11th or 12th grade</i>	<i>* may be taken in 11th or 12th grade</i>	Pre-professional Education Cadet <i>See full prerequisite list on course page</i>	<i>* may be taken in 11th or 12th grade</i>







ENGINEERING

PATHWAY

[Early Planning Guide]



	Digital Electronics* (semester course) 	Computer Integrated Manufacturing* (semester course) 	Aerospace Engineering* (semester course) 	Engineering Design & Development/ Eng. Field Experience (year-long course) 
7th GRADE	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle Recommended: PLTW Engineering courses (if offered in your district)	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle Recommended: PLTW Engineering courses (if offered in your district)	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle Recommended: PLTW Engineering courses (if offered in your district)	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle Recommended: PLTW Engineering courses (if offered in your district)
8th GRADE	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle Recommended: PLTW Engineering courses (if offered in your district)	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle Recommended: PLTW Engineering courses (if offered in your district)	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle Recommended: PLTW Engineering courses (if offered in your district)	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle Recommended: PLTW Engineering courses (if offered in your district)
9th GRADE	Alg I or higher (e.g. Geometry) Recommended: Engineering class or PLTW Intro. to Engineering (POE) (if offered in your district)	Alg I or higher (e.g. Geometry) Recommended: Engineering class or PLTW Intro. to Engineering (if offered in your district)	Alg I or higher (e.g. Geometry) Recommended: Engineering class or PLTW Intro. to Engineering (if offered in your district)	Alg I or higher (e.g. Geometry) Recommended: Engineering class or PLTW Intro. to Engineering (if offered in your district)
10th GRADE	Geometry or higher (e.g. Alg II) Recommended: Engineering class or PLTW Principles of Engineering (POE) (if offered in your district)	Geometry or higher (e.g. Alg II) Recommended: Engineering class or PLTW Principles Engineering (if offered in your district)	Geometry or higher (e.g. Alg II); Take physics at sending school. Recommended: Engineering class or PLTW Principles of Engineering (if offered in your district)	Geometry or higher (e.g. Alg II) Recommended: Engineering class or PLTW Principles of Engineering (if offered in your district)
11th GRADE	Digital Electronics* <i>See full prerequisite list on course page</i>	Computer Integrated Manufacturing* <i>See full prerequisite list on course page</i>	Aerospace Engineering* Prerequisite: Alg II Recommended: Physics; PLTW IED & POE classes (if offered in your district) Physics may be taken concurrently at sending school. <i>See full prerequisite list on course page</i>	Choose 2 at STA: Digital Electronics, Computer Integrated Manufacturing or Aerospace Engineering at STA or Civil Engineering/Architecture at your sending school. Take Physics at sending school as well.
12th GRADE	<i>* may be taken in 11th or 12th grade</i>	<i>* may be taken in 11th or 12th grade</i>	<i>* may be taken in 11th or 12th grade</i>	Engineering Design and Development/ Eng. Field Experience Physics and Pre-calculus may be taken concurrently with EDD/EFE. <i>See full prerequisite list on course page</i>