

STA SUMMIT TECHNOLOGY ACADEMY

[Early Planning Guide]

	Digital Electronics* (semester course)	Computer Integrated Manufacturing* (semester course)	Aerospace Engineering* (semester course)	
7th	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle	
GRADE	Recommended: PLTW Engineering courses (if offered in your district)	Recommended: PLTW Engineering courses (if offered in your district)	Recommended: PLTW Engineering courses (if offered in your district)	
8th	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle	Challenge yourself to take the highest level math, science, communication arts and engineering technology you can handle	
GRADE	Recommended: PLTW Engineering courses (if offered in your district)	Recommended: PLTW Engineering courses (if offered in your district)	Recommended: PLTW Engineering courses (if offered in your district)	
Oth	Alg I or higher (e.g. Geometry)	Alg I or higher (e.g. Geometry)	Geometry or higher	
9th GRADE	Recommended: Engineering class or PLTW Intro. to Engineering (POE) (if offered in your district)	Recommended: Engineering class or PLTW Intro. to Engineering (if offered in your district)	Recommended: Engineering class or PLTW Intro. to Engineering (if offered in your district)	
10th	Geometry or higher (e.g. Alg II)	Geometry or higher (e.g. Alg II)	Alg II or higher	
10th GRADE	Recommended: Engineering class or PLTW Principles of Engineering (POE) (if offered in your district)	Recommended: Engineering class or PLTW Principles Engineering (if offered in your district)	Recommended: Engineering class or PLTW Principles of Engineering (if offered in your district)	
1146	Digital Electronics*	Computer Integrated Manufacturing*	Aerospace Engineering* Prerequisite: Alg II	
11th GRADE	See full prerequisite list on course page	See full prerequisite list on course page	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>	
124	Digital Electronics*	Computer Integrated Manufacturing*	Aerospace Engineering* Prerequisite: Alg II	
12th GRADE	See full prerequisite list on course page	See full prerequisite list on course page	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>	



(SECOND YEAR COURSES)



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	Engineering Design & Development/ Engineering Field Experience (year-long course)	Aerospace Academy (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)
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)
9th GRADE	Alg I or higher (e.g. Geometry) Recommended: Engineering class or PLTW Intro. to Engineering (if offered in your district)	Geometry or higher 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 (if offered in your district)	Alg II or higher Recommended: Engineering class or PLTW Principles Engineering (if offered in your district)
11th GRADE	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.	Physics Recommended: Digital Electronics and Aerospace Engineering at STA OR Civil Engineering/Architecture at your sending school.
12th GRADE	Engineering Design and Development/ Eng. Field Experience Physics and Pre-calculus may be taken concurrently with EDD/EFE. See full prerequisite list on course page	Aerospace Academy Physics and Pre-calculus may be taken concurrently with EDD/EFE. See full prerequisite list on course page





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	Software Development I & II*	Network Engineering 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 1 or higher (e.g. Geometry) Recommended: computer programming class or Geometry	Alg I or higher (e.g. Geometry) Recommended: CHAOS I (also offered through R7 Online)	Alg 1 or higher (e.g. Geometry) Recommended: CHAOS I (also offered through R7 Online)
10th GRADE	Geometry or higher (e.g. Alg II) Recommended: computer programming class or Alg II	Geometry or higher (e.g. Alg II) Recommended: CHAOS I or II (also offered through R7 Online)	Geometry or higher (e.g. Alg II) Recommended: CHAOS II (also offered through R7 Online)
11th GRADE	Software Development I & II* Prerequisite: Alg II or computer programming See full prerequisite list on course page	Network Engineering I & II* See full prerequisite list on course page	Network Engineering I & II
12th GRADE	Software Development I & II* Prerequisite: Alg II or computer programming See full prerequisite list on course page	Network Engineering I & II* See full prerequisite list on course page	CyberSecurity Prerequisite: Network Engineering & See full prerequisite list on course page



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



	International Studies Academy* 🗮	Teacher Educator Academy	Business Finance and Fintech*
7th GRADE	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 Recommended: Any practical art class that is offered	Challenge yourself to take the highest level math, science and communication arts you can handle
8th GRADE	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
9th GRADE	Challenge yourself to take the 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) Recommended: Intro. to Business or Accounting I
10th GRADE	Challenge yourself to take the 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	Geometry or higher (e.g. Alg II) Recommended: Accounting or Intro to Business
11th GRADE	International Studies Academy* See full prerequisite list on course page	Child Development, Child or Adolescent Psychology, Psychology, Sociology Recommended: Parenting Course, Preschool Course	Business Finance and Fintech* See full prerequisite list on course page
12th GRADE	International Studies Academy* See full prerequisite list on course page	Teacher Educator Academy See full prerequisite list on course page	Business Finance and Fintech* See full prerequisite list on course page



Digital Media Technology* 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 and communication arts you can handle in addition to any fine arts class offered **GRADE** Alg I or higher (e.g. Geometry), Fine arts GRADE Geometry, Fine arts 10th **GRADE Recommended:** Computer Application or Programming Digital Media Technology* **GRADE** See full prerequisite list on course page Digital Media Technology* See full prerequisite list on course page





	MIC for SET Networking	MIC for EyberSecurity	MIC for Software Expension	MIC for Drafting & =	MIC for Big Data & == Business Analytics
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)	Challenge yourself to take the highest level math, science and communication arts 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	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)	Challenge yourself to take the highest level math, science and communication arts you can handle
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)	Introduction to Business Accounting Recommended: Other business classes
10th GRADE	Geometry or higher (e.g. Alg II) College summer courses required Recommended: CHAOS I or II	Geometry or higher (e.g. Alg II) College summer courses required Recommended: CHAOS I or II	Alg II or computer programming class College summer courses required	Geometry or higher (e.g. Alg II) College summer courses required Recommended: Engineering class or PLTW Principles Engineering (if offered in your district)	Introduction to Business Accounting Recommended: Other business classes
11th GRADE	Network Engineering I & II College summer courses required Commit to completing high school graduation requirements except for 4th English credit and remaining elective credit prior to senior year	Network Engineering I & II College summer courses required Commit to completing high school graduation requirements except for 4th English credit and remaining elective credit prior to senior year	Software Development I & II College summer courses required 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	Business Finance & Fintech at STA Business and Finance 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 College summer courses required	Internship in MIC Class at STA, Internship, and College Classes College summer courses required	Internship in MIC Class at STA, Internship, and College Classes College summer courses required	Internship in MIC Class at STA, Internship and College Classes College summer courses required	Internship in MIC Class at STA, Internship, and College Classes College summer courses required
	See full prerequisite list on course page	See full prerequisite list on course page	See full prerequisite list on course page	See full prerequisite list on course page	See full prerequisite list on course page





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	KU Degree in 3 for Allied Health	KU Degree in 3 for Medical Interventions/ Biomedical Innovation
7th GRADE	Challenge yourself to take the highest level math, science and communication arts you can handle Recommended: PLTW science courses (if offered in your district)	Challenge yourself to take the highest level math, science and communication arts you can handle Recommended: PLTW science courses (if offered in your district)
8th GRADE	Challenge yourself to take the highest level math, science and communication arts you can handle Recommended: PLTW science courses (if offered in your district)	Challenge yourself to take the highest level math, science and communication arts you can handle Recommended: PLTW science courses (if offered in your district)
9th GRADE	Alg I or higher (e.g. Geometry), Biology or Chemistry Recommended: Anatomy/Physiology	Alg I or higher (e.g. Geometry) Biology and Chemistry Recommended: PLTW Principles of Biomedical Sci (PBS) (if offered in your district) or Anatomy/Physiology Biology, Chemistry or other rigorous related science course
10th GRADE	Biology or Chemistry Recommended: Anatomy/Physiology	Biology and Chemistry Recommended: PLTW Human Body Systems (HBS) (if offered in your district) or Anatomy/Physiology Biology, Chemistry or other rigorous related science course
11th GRADE	Allied Health Academy College summer courses required Commit to completing high school graduation requirements except for 4th English credit and remaining elective credit prior to senior year	Medical Interventions/Biomedical Innovation 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 Take dual credit coursework at MCC College summer courses required See full prerequisite list on course page	Internship in MIC Class at STA, Internship, and College Classes Take dual credit coursework at MCC College summer courses required See full prerequisite list on course page