


Career Academy: St. Johns County Aerospace Academy **Secondary CTE Program:** Aerospace & Engineering Technology
Career Cluster Pathway: Science, Technology, Engineering & Mathematics **Eligible Recipient:** Grade 9-12 Program 8600080

	16 CORE CURRICULUM CREDITS					8 ADDITIONAL CREDITS	
	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	OTHER REQUIRED COURSES	CAREER AND TECHNICAL EDUCATION COURSES	RECOMMENDED ELECTIVES (Aligned with State University System Admissions)
	4 credits	4 credits	3 credits, 2 with lab	3 credits	Fine or Practical Arts (1 cdt) Physical Education (1 cdt)	Major Area of Interest:	

Career Cluster of interest identified by students enrolled in required middle school career education course that includes interest assessment and career exploration through CHOICES and ePersonal Education Planner through FACTS.org.

HIGH SCHOOL	9	English 1	Algebra 1/Pre-AICE Math 2	Physical Science/Pre-AICE Biology	Elective	HOPE	Aerospace Technology I	Elective or Foreign Language
	10	English 2	Geometry/Pre AICE Math 3	Biology/Pre-AICE Chemistry	World History	Fine OR Practical ARTS (1 cdt)	Aerospace Technology II	Elective or Foreign Language
	11	English 3	Algebra 2/DE College Alg & DE Pre-Cal/Pre Calculus/AP Calculus/AICE Math	Earth Space Science/AICE Physics	American History	AS 121 Ground School	Aerospace Technology III/SP 110 Space Flight and Adv. Space Technology	Elective or Foreign Language
	12	English 4/English 4 Honors/AICE English Lit/AP English	Algebra 2/AP Calculus	Chemistry/Physics Honors	Economics / Government	AS 121 Ground School	Adv. Technology Application/EGR 101 Intro to Engineering & EGR 115 Computing for Engineers	Elective or Foreign Language

Dual enrollment courses may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements - see the Articulation Coordinating Committee's Dual Enrollment Equivalency List and the Bright Futures Comprehensive Course Table.

Secondary career and technical education programs may lead to industry recognized certificates, occupational opportunities or postsecondary education options. Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.

POSTSECONDARY	TECHNICAL CENTER PROGRAM(S)	COMMUNITY COLLEGE PROGRAM(S)	UNIVERSITY PROGRAM(S)
	Workforce certificates in Aircraft Airframe Mechanics; Aircraft Powerplant Mechanics; Avionics	Aviation Maintenance Management (A.S.); Air Traffic Control (A.S.); Aviation Operations (A.S.); Professional Pilot Technology (A.S.)	Aeronautical Science; Aeronautics; Aerospace Engineering; Air Traffic Management; Applied Meteorology; Aviation Maintenance Science; Civil Engineering; Computer Engineering

SAMPLE CAREER SPECIALTIES **(The Targeted Occupations List may be used to identify appropriate careers.)**

CAREER	Airframe mechanic; Aircraft & powerplant mechanic; Avionics Specialist; Sheet metal fabricator	Pilot; Air Traffic Controller; Accident Investigator; Radar / Navigation Specialist; Safety Inspector	Engineers; Airport Architects; Information Systems Specialist; Aviation Medical Examiner; Astronaut
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ARTICULATION AND CTE DUAL ENROLLMENT OPPORTUNITIES

CREDIT	Secondary to Technical Center (PSAV)	Secondary to College Credit Certificate or Degree	PSAV/PSV to AAS or AS to BS or BAS
	Florida Community College at Jacksonville	Florida Community College at Jacksonville	Embry-Riddle Aeronautical University

***Possible Industry Certifications (Students):**

Secondary:	FAA Pilot's License
Postsecondary:	FAA Airframe & Powerplant license;