


Career Cluster: Engineering and Technology (STEM)		CTE Program: The Academy of Aviation and Aerospace Secondary: St. Augustine High School, St. Johns County School District: Aerospace Technologies - 8600080 Postsecondary: Embry Riddle Aeronautical University, Daytona Beach: AS120 Principles of Aeronautical Science, AS220 Unmanned Aircraft Systems, AS235 Unmanned Aircraft Systems Operation and Cross-Country Data Entry, AS222 Unmanned Aircraft System Security, AS121 Private Pilot Operations St. Johns River State College, St. Augustine: Engineering, Embry-Riddle Blue-Gold Connection						
Career Cluster Pathway: Engineering and Technology Education		Industry Certification: Postsecondary: Embry Riddle: Small UAS Safety Certification (USINS001)						
		16 CORE CURRICULUM CREDITS					8 ADDITIONAL CREDITS	
		ENGLISH 4 credits	MATH 4 credits	SCIENCE 3 credits, 2 with lab	SOCIAL STUDIES 3 credits	OTHER REQUIRED COURSES FINE ARTS (1 credit) PHYSICAL EDUCATION (1 credit)	CAREER AND TECHNICAL EDUCATION COURSES	RECOMMENDED ELECTIVES Aerospace Studies Aviation Maintenance
<ul style="list-style-type: none"> Students are encouraged to use mycareershines.org to explore careers and postsecondary options. Students are also encouraged to participate in dual enrollment courses which may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements. One course within the 24 credit program must be an online course. Cumulative GPA of 2.0 on a 4.0 scale for 24 credit program 								
HIGH SCHOOL	9th	English 1/Honors/AICE Lang AS	Geometry/Honors	Biology/Honors	AICE Geography/Digital Information Technology	HOPE – Health Opportunities through Physical Education	Aerospace Technology 1 Honors - 8600580	Elective or Foreign Language
	10th	English 2/Honors/AICE Lang AL	Algebra 2/Honors	Chemistry/Honors	World History/Honors	Elective	Aerospace Technology 2 Honors - 8600680	Elective or Foreign Language
	11th	English 3/AICE General Paper/ENC 1101 & 1102 Composition 1 & 2 (SJRSC Dual Enrollment)	AICE Math/Pre-Calculus/ MAC 1105 College Algebra (SJRSC Dual Enrollment)	Physics Honors	American History/Honors	Elective	Aerospace Technology 3 Honors - 8601780	ERAU Dual Enrollment AS120 Principle of Aeronautical Science/AS220 Unmanned Aircraft Systems Advanced Technology Applications - 8601900
	12th	English 4 CP/AICE English Lit AS/ENC 2012 English Lit. (SJRSC Dual Enrollment)	AP Statistics/AP Calculus	AICE Chemistry/AICE Physics	Economics/Honors; American Government/Honors	Elective		ERAU Dual Enrollment UAS Operations AS235 / AS222 UAS Security AS121 – Private Pilot Operations Cooperative Diversified Education OJT – 8300420 (Work Based Learning)
	AICE Track	AICE English	AICE Math	AICE Science	AICE Social Studies	AICE Elective	Academy course progression, with AICE Curriculum.	https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-advanced/cambridge-aice-diploma/curriculum/
POSTSECONDARY	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.							
	TECHNICAL CENTER PROGRAM(S)		COMMUNITY COLLEGE PROGRAM(S)			UNIVERSITY PROGRAM(S)		
	First Coast Technical College: Aircraft Fabrications Florida State College of Jacksonville: Workforce certificates in Aircraft Airframe Mechanics, Aircraft Powerplant Mechanics, Aircraft Coating and Corrosion Control Technology. Technical certificate in Air Traffic Control		Florida State College of Jacksonville: Aviation Maintenance Management (A.S.), Aviation Operations (A.S.) St. Johns River State College: "The Blue Gold Connection" with Embry-Riddle Aeronautical University http://www.sjstate.edu/embry.html			Embry-Riddle Aeronautical University: Aeronautics, Aviation Maintenance, Aviation Business Administration, Aeronautical Science, Aerospace Engineering, Aerospace and Occupational Safety, Air Traffic Management, Aviation Security, Homeland Security, Meteorology, Unmanned Aircraft Vehicle Science, Aviation Finance Jacksonville University: Aviation Management, Aviation Management & Flight Operations		
CAREER	Sample Career Specialties							
	Sheet Metal Fabricator, Airframe Mechanic, Avionics Specialist, Aircraft and Powerplant Mechanic, Air Traffic Controller		Air Traffic Controller, Aerospace Accident Investigator, Radar/Navigation Specialist, Aerospace Safety Inspector			Pilot, Engineer, Airport Architect, Information System Specialist, Aviation Medical Examiner, Astronaut		
CREDIT	Articulation and CTE Dual Enrollment Opportunities							
	Secondary to Technical Center (PSAV) (Minimum # of clock hours awarded)		Secondary to College Credit Certificate or Degree (Minimum # of clock or credit hours awarded)			PSAV/PSV to AAS or AS/BS/BAS (Statewide and other local agreements included here)		
	N/A		St. Johns River State College: The Blue-Gold Connection with Embry-Riddle Aeronautical University: The Blue-Gold Connection guarantees students entry into more than 20 degree programs, aligning SJR State's associate in arts degree (transfer degree) with Embry-Riddle's programs through a personalized course transfer guide. High school students passing ERAU Dual Enrollment courses earn 3 college credits for AS120, AS220, AS222, and AS235 at ERAU. Students earn 5 college credits for passing AS121 at ERAU			High school students passing ERAU Dual Enrollment courses earn 3 college credits for AS120, AS220, AS222, and AS235 at ERAU. Students earn 5 college credits for passing AS121 at ERAU		
Career and Technical Student Association								
Florida Technology Student Association (FL-TSA)								
Internship/Work Experience Recommendations								
Career Academy students may apply for summer internships after their junior year. Sample internships job titles include: aircraft mechanic assistant, airport administrative assistant, airport concierge, aerospace engineer assistant								
Program of Study Graduation Requirements: http://www.fldoe.org/academics/graduation-requirements								