


Career Cluster: Engineering and Technology (STEM)		CTE Program: St. Johns County Aerospace Academy 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, AS237 UAS Applications in Aerial Photography 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) St. Johns River State College:							
		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 (ALIGNED WITH COMMUNITY COLLEGE & STATE UNIVERSITY SYSTEM PROGRAMS)	
HIGH SCHOOL		<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 							
		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 - 8600580	Elective or Foreign Language
		10th	English 2/Honors/AICE Lang AL	Algebra 2/Honors	Chemistry/Honors	World History/Honors	Digital Information Technology (8207310) – Practical Arts Credit option, recommended elective	Aerospace Technology 2 - 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 - 8601780	Elective or Foreign Language/ ASC1000 Principle of Aeronautical Science (ERAU Dual Enrollment)/ ASC 2560 Unmanned Aircraft Systems (ERAU Dual Enrollment)
		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	ASC1000 Principle of Aeronautical Science (ERAU Dual Enrollment) /ASC 2560 Unmanned Aircraft Systems (ERAU Dual Enrollment)	Elective or Foreign Language/ERAU Dual Enrollment Options (TBD)
		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.sjrstate.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	<p>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.</p> <p>High school students passing ERAU Dual Enrollment courses earn 3 college credits for ASC 1000 and ASC 2560 at ERAU.</p>	<p>High school students passing ERAU Dual Enrollment courses earn 3 college credits for ASC 1000 and ASC 2560 at ERAU.</p>
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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>