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| Career Cluster: Engineering and Technology (STEM) | | | | CTE Program: St. Johns County Aerospace AcademySecondary: 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 | |
| ENGLISH4 credits | MATH4 credits | | SCIENCE3 credits, 2 with lab | SOCIAL STUDIES3 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 | 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 | | 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 ASC 1000 and ASC 2560 at ERAU. | | | | | High school students passing ERAU Dual Enrollment courses earn 3 college credits for ASC 1000 and ASC 2560 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 | | | | | | | | | |