**Career Cluster:** Engineering & Technology Education

**Career Cluster Pathway:** Engineering & Technology

**Industry Certification:** Secondary: FAA Ground School (FEDAA013); Small UAS Safety Certification (USINS001), Aerospace Technician (SPACE001)

**CTE Program:** St. Johns County Aerospace Academy

**Secondary:** St. Augustine High School, St. Johns County School District

**Postsecondary:**

- St. Johns River State College: St. Augustine: The Blue Gold Connection gives students an AA degree from SJR State College and automatic acceptance into the Aerospace Programs at Embry Riddle Aeronautical University
- FL State College at Jacksonville: Aviation Maintenance Management (A.S.-1649010401), Aviation Operations (A.S.-1649010404)

**16 CORE CURRICULUM CREDITS**

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>SOCIAL STUDIES</th>
<th>OTHER REQUIRED COURSES</th>
<th>PHYSICAL EDUCATION</th>
<th>CAREER AND TECHNICAL EDUCATION COURSES</th>
<th>RECOMMENDED ELECTIVES</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 credits</td>
<td>4 credits</td>
<td>3 credits, 2 with lab</td>
<td>3 credits</td>
<td>Digital Information Technology-8207510 (Recommended Elective) (Practical/Fine Arts Credit)</td>
<td>Aerospace Technology 1 - 8600580</td>
<td>Elective or Foreign Language</td>
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</tbody>
</table>

**RECOMMENDED ELECTIONS (ALIGNED WITH COMMUNITY COLLEGE & STATE UNIVERSITY SYSTEM PROGRAMS)**

- Elective or Foreign Language

<table>
<thead>
<tr>
<th>8 ADDITIONAL CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Technology 2 - 8600680</td>
</tr>
</tbody>
</table>

**HIGH SCHOOL**

- **9th**
  - English 1/Honors/AICE Lang AS
  - Geometry/Honors
  - Physical Science/Honors
  - Teen Leadership/AP Human Geography
  - Digital Information Technology-8207510 (Recommended Elective) (Practical/Fine Arts Credit)
  - Aerospace Technology 1 - 8600580
  - Elective or Foreign Language

- **10th**
  - English 2/Honors/AICE Lang A
  - Algebra 2/Honors
  - Biology/Honors
  - World History/Honors
  - HOPE = Health Opportunities through Physical Education
  - Aerospace Technology 2 - 8600680
  - Elective or Foreign Language

- **11th**
  - English 3/AICE General Paper/AICE Lit AS
  - Pre-Calculus
  - Earth Space Science/Honors
  - American History/Honors, SJRSC Dual Enrolment – US History (AMH 2010 & 2020)
  - Elective
  - Aerospace Technology 3 - 8600178
  - Elective or Foreign Language

- **12th**
  - English 4 CP/Any AICE Level Course (SJRSC Dual Enrolment - Composition I & II (ENC 1101 & 1102)
  - AP Statistics/AP Calculus, SJRSC Dual Enrolment – College Algebra (MAC 1105)
  - Chemistry/Honors, Physics/Honors, SJRSC Dual Enrolment – General Biology + Lab (BSC 1005), Introduction to Chemistry (CHM 1020)
  - Economics/Honors; American Government/Honors
  - Elective
  - ASC3471 Flight Physiology (ERAU Dual Enrollment) /ASC 2560 Unmanned Aircraft Systems (ERAU Dual Enrollment)
  - Elective or Foreign Language

**POSTSECONDARY**

- 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
- Embry Riddle Aeronautical University: Certificates in Aircraft Dispatcher, Aircraft Maintenance Technician, Part 65

- 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 (A.S.), Aviation Business Administration (A.S.), Aviation Maintenance (A.S.)
- Embry-Riddle Aeronautical University: Aeronautics, Aviation Maintenance, Aviation Business Administration, Aeronautical Science, Aerospace Engineering, Air Traffic Management, Unmanned Aircraft Vehicle Science
- Jacksonville University: Aviation Management, Aviation Management & Flight Operations
## CAREER

<table>
<thead>
<tr>
<th>Sample Career Specialties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheet Metal Fabricator, Airframe Mechanic, Avionics Specialist, Aircraft and Powerplant Mechanic, Air Traffic Controller</td>
</tr>
<tr>
<td>Air Traffic Controller, Aerospace Accident Investigator, Radar/Navigation Specialist, Aerospace Safety Inspector, Aviation Operations, Aviation Mechanic</td>
</tr>
<tr>
<td>Pilot, Aerospace Engineer, Airport Architect, Aviation Medical Examiner, Astronaut, Unmanned Aircraft Pilot, Air Traffic Controller</td>
</tr>
</tbody>
</table>

## ARTICULATION AND CTE DUAL ENROLLMENT OPPORTUNITIES

<table>
<thead>
<tr>
<th>Secondary to Technical Center (PSAV) (Minimum # of clock hours awarded)</th>
<th>Secondary to College Credit Certificate or Degree (Minimum # of clock or credit hours awarded)</th>
<th>PSAV/PSV to AAS or AS/BS/BAS (Statewide and other local agreements included here)</th>
</tr>
</thead>
<tbody>
<tr>
<td>------------</td>
<td>N/A</td>
<td>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 Embry Riddle Aeronautical University Dual Enrollment courses earn 3 college credits for ASC 3471 and ASC 2560 and 5 college credits for ATF 1103 at ERAU.</td>
</tr>
</tbody>
</table>

## 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](http://www.fldoe.org/academics/graduation-requirements)