

Career Cluster: Engineering and Technology Education (STEM)  
 Career Cluster Pathway: Engineering and Technology

CTE Program: **Aerospace Technologies (8600080)**  
 Industry Certifications: ADESK002 and 011, FEDAA011

**16 REQUIRED CREDITS**

**8 ELECTIVE CREDITS REQUIRED**

<i>Collier County Program of Study</i>	<b>ENGLISH</b> (4 credits)	<b>MATH</b> (4 credits)	<b>SCIENCE</b> (3 credits, 2 with lab)	<b>SOCIAL STUDIES</b> (3 credits)	<b>CAREER EDUCATION PROGRAM COURSES</b>		<b>RECOMMENDED ELECTIVES</b> (State University Aligned)	
	AP- Adv. Placement DE- Dual Enrollment	AP- Adv. Placement DE- Dual Enrollment	AP- Adv. Placement DE- Dual Enrollment	AP- Adv. Placement DE- Dual Enrollment	<b>Other Requirements:</b> Pass FCAT 2/PARC – Reading Level 3, pass Algebra I EOC, and 30% of EOC Exam for Biology, Algebra 2, Geometry, US History		(One virtual course is required)	
<b>Dual enrollment and CTE courses satisfy graduation and Bright Futures Gold Seal Vocational Scholar requirements. Agriscience Foundations and Aerospace Technology satisfy core science requirements. State Approved industry certifications lead to college credit and may substitute for up to two high school credits of math and one credit of science. One online course and a 2.0 is required for graduation. Visit <a href="http://www.flvs.org">www.flvs.org</a> and your counselor.</b>								
<b>HIGH SCHOOL</b>	<b>9</b>	English I or Honors (1)	Algebra 1 or Honors (1)	Earth & Space Science or Honors (1)	Foreign Lang.1 or Elective (1)	HOPE (1) or Elective (1)	Technical Design 1 or Digital Info Tech. (1)(Art Requirement)	
	<b>10</b>	English 2 or Honors (1)	Algebra I/H or Informal Geometry or Geometry/ H (1)	Biology or Honors (1)	World History or Honors or AP (1)	Foreign Language 2* or Elective (1)	Aerospace Technologies I (1) & Embry Riddle Dual Enrollment ASC1000 (3 college Credits)	
	<b>Students are encouraged to take the ACT, SAT or PERT during 11<sup>th</sup> grade. Scores on the FCAT, FACT 2.0 and EOCs' should determine college readiness</b>							
	<b>11</b>	English 3 or Honors or DE or AP (1)	Geometry/H or Algebra 2/H or DE or AP (1)	Chemistry or Physical Science or Physics or DE or AP (1)	American History or Honors, DE or AP (1)	Science/Math or Elective (1)	Aerospace Technologies II (1)	Embry Riddle Dual Enrollment ASC2560 (3 college credits)
	<b>12</b>	English 4 or Honors or DE or AP (1)	Algebra 2/H or College Ready Math or DE or AP (1)	Environmental Science or Physics or Other Elective (1)	Am Gov/Economics or Honors or DE or AP (1)	Elective or Executive Internship or Apprenticeship (1)	Aerospace Technologies III -H(1) (science credit)	Embry Riddle Dual Enrollment ATF1103 (5 college credits)
<b>POSTSECONDARY</b>	<b>Based on this Career Cluster and identified career and identified technical education program, the following postsecondary options are available.</b>							
	<b>TECHNICAL CENTER PROGRAM(S)</b>		<b>COMMUNITY COLLEGE PROGRAM(S)</b>			<b>UNIVERSITY PROGRAM(S)</b>		
	<b>Statewide PSAV Certification</b> -I470612 Aircraft/Airframe Mech. (1440 hrs) -I470622 Aircraft Powerplant Mech.(1440 hrs ) -I490105 Air Traffic Control (1600 hrs)		<b>Statewide South Florida Community College</b> -Aerospace Technology – AS/AAS, (64 cr.), -Professional Pilot Technology-AS, (64 cr.) -Aviation Maintenance Management, AS, (64 cr.) -Aviation Operations, AS, (64 cr.) -Air Traffic Control, AS, (64 cr.)			<b>Embry Riddle Aeronautical University</b> -Aerospace Engineering, BSAE, (129 cr.)– with Astronautics, Aeronautics, and Propulsion Tracts -Air Traffic Management, BS, (120 cr.) -Aeronautics, BS, (120 cr.) -Certificate of Management in Aviation Safety – 3 Education Security (CASE) courses -Aerospace Engineering, BSAE, (128 hrs.)- UCF		

<b>ARTICULATIONS/ CREDIT</b>	<b>High School Students to PSAV Technical Center Program</b>	<b>Technical Center or High School to Community or State College</b>	<b>State and Community Colleges to Universities</b>
	No articulations for Aerospace Technologies at this time	<p><b>Statewide Industry Certifications:</b>            FEDAA001 = 3 cr. to <b>AS</b>, Professional Pilot Tech.            ADESK011 = 3 cr. to <b>AS</b>, Engineering Technology</p> <p><b>PSAV Program completion = 9 credits</b> toward <b>AS</b> degree in Business Administration or <b>CCC</b> in Small Business Management- <b>FSW</b></p> <p><b>Dual Enrollment:</b> Embry-Riddle Aeronautical Univ., Daytona Beach, FL (ERAU) toward <b>AS</b></p>	<p><b>FL Southwestern State College to Hodges University:</b>            Interdisciplinary Studies, <b>BS</b> (62 hrs)</p> <p>-Regional <b>AS</b> Degree = (60 cr.) toward <b>BAS</b> degree (120 cr.) in Applied Science</p> <p>-ERAU: <b>AS to BS</b> degree, various majors</p>
<b>Based on the Career Cluster of interest and identified CTE program the following sample career specialties</b>			
<b>CAREERS</b>	<b>Technical Centers</b>	<b>Community Colleges</b>	<b>4 Year Colleges and Universities</b>
	(DOL) Aircraft Mechanic & Service Technicians, (HSHW) Aircraft Airframe Mechanic	(DOL) Vocational Ed. Teacher, Secondary –(HSHW) Power Systems Technician Aviation Maintenance Assistant Manager Pilot	Aviation Safety Manager Commercial Pilots Transportation Engineers Aerospace Engineer Power Systems Engineer Aviation Maintenance Operations Manager
<b>INDUSTRY CERTIFICATIONS</b>			
<p><b>All certifications students have the opportunity to take while in this POS:</b>  <b>ADESK002</b> Autodesk Certified User- AutoCAD  <b>ADESK011</b> Autodesk Certified User Autodesk Inventor  <b>ADESK012</b> Autodesk Certified User-Inventor  <b>FEDAA011</b> Private Pilot  <b>FEDAA013</b> FAA Ground School</p>			
<b>CAREER AND TECHNICAL STUDENT ASSOCIATION</b>			
Florida Technology Student Association (FL-TSA)			
<b>INTERNSHIP/WORK EXPERIENCE RECOMMENDATIONS</b>			
Intern or volunteer at local airport. Shadow airplane mechanic or pilot. Take flying lessons. Shadow the areas of air traffic control, airframe, aeronautics, airplane mechanic shop. Refer to <a href="http://collierschools.com/careertech/internships.htm">http://collierschools.com/careertech/internships.htm</a> for district approved internship opportunities.			
****	Reviewed May 1, 2016 and updated annually. See your Counselor for the most recent plan as student schedules will vary based on the needs of the student. Find detailed graduation requirements at: <a href="http://www.fldoe.org/academics/graduation-requirements">http://www.fldoe.org/academics/graduation-requirements</a>		

**Aerospace Technologies (HS) #8600080**