


**Career Cluster:** Architecture & Construction

**CTE Program: Secondary: Design Academy – Drafting strand (8725000)**  
**Bartram Trail High School, St. Johns County School District**  
**Postsecondary:** Florida State College at Jacksonville: Drafting (PSAV-C100200), Architectural Design & Construction Technology (AS - 1604090100) AutoCAD Foundations (A.S. 0615130204), Geospatial Information Systems Technology (PSAV-T860020), Building Construction Technology (A.S. 1615100102)

**Career Cluster Pathway:** Design Pre/Construction

**Industry Certification, Secondary:** Autodesk Certified User-AutoCad (ADESK002) and Autodesk Certified Professional-Revit (ADESK008)  
**Postsecondary:** Florida State College at Jacksonville: Autodesk Cert. Professional – REVIT (ADESK025), Autodesk Certified Professional – AutoCAD (ADESK021)

	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)	

<b>HIGH SCHOOL</b>	<ul style="list-style-type: none"> <li>Students are encouraged to use <a href="http://mycareershines.org">mycareershines.org</a> to explore careers and postsecondary options.</li> <li>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.</li> <li>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</li> </ul>								
		* - Honors weighting in CTE classes							
	<b>9<sup>th</sup></b>	English 1 or English 1 Honors	Algebra I or Algebra 1 Honors	Environmental Science, Physical Science Honors or Biology Honors	AP Human Geography or World Cultural Geography	HOPE – Health Opportunities through Physical Education	Drafting 1 Honors-8725010 <b>(Meets the Fine Arts Requirement)</b>	Elective	
	<b>10<sup>th</sup></b>	Eng 2 or Eng 2 Honors	Geometry or Geometry Honors	Biology or Chemistry or Chemistry Honors	World History or AP World History	World Language	Drafting 2 Honors-8725020	Elective	
	<b>11<sup>th</sup></b>	Eng 3 or Eng 3 Honors or AP Eng Lang	Algebra 2 or Algebra 2 Honors	Chemistry, Chemistry H, or Physics Honors	US History or AP US History	World Language	Drafting 3 Honors-8725030	Elective	
<b>12<sup>th</sup></b>	Eng 4 or Eng 4 Honors or AP Eng Lit	Pre Calc Honors, Math for College Readiness, Adv Topics in Math, AP Stats, AP Calculus	AP Chem, AP Bio, AP Physics, AP Enviro, Marine Science Honors or Anatomy Honors	US Gov & Econ or AP US Gov/US Gov Honors & AP Micro/Macro Econ	Elective or World Language	Drafting 4 Honors-8725040	Elective		

<b>POSTSECONDARY</b>	<b>Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.</b>		
	TECHNICAL CENTER PROGRAM(S)	COMMUNITY COLLEGE PROGRAM(S)	UNIVERSITY PROGRAM(S)
	FL State College at Jacksonville: Drafting – 10-month certificate program  Seminole State College, Sanford: Computer-Aided Design Technical Certificate – 10-month program	FL State College at Jacksonville, Building Construction Technology A.S., AutoCAD Foundations T.C., Drafting T.C.  Valencia College, Orlando: Civil/Surveying Engineering Technology Associate A.S.  Daytona State College, Daytona Beach: AutoCAD Foundations A.S.	<b>University of North Florida</b> , Jacksonville – Building Construction, Mechanical Engineering University of N. FL, Jacksonville: Engineering – Civil, Electrical, Mechanical University of FL, Gainesville: Engineering – Civil, Environmental, Mechanical, Architectural University of Central FL, Orlando: Engineering -- Civil, Environmental, Electrical, Mechanical, Aerospace

<b>CAREER</b>	<b>Sample Career Specialties – Careers from the Targeted Occupations List are in bold.</b>		
	Drafting Assistant, Drafting Detailer, Mechanical Drafter, Electronics Drafter	Architectural Engineering Assistant, Draftsman, Chief Design Draftsman, Project Manager	Architect, Engineer, Construction Manager, Cost Estimator

<b>CREDIT</b>	<b>Articulation and CTE Dual Enrollment Opportunities</b>		
	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)
	No articulation agreement. No CTE Dual Enrollment.	FSCJ: 3 credits immediately awarded upon enrollment for AutoCAD certification – Architectural Design & Construction Tech major, Course CGS2470, ETD 2395	No articulation agreement. No CTE Dual Enrollment.

**Career and Technical Student Association**

SkillsUSA

**Internship/Work Experience Recommendations**

Career Academy students may apply for summer internships after their junior year. Sample internship is drafting assistant.

**Program of Study Graduation Requirements:** <http://www.fldoe.org/academics/graduation-requirements>