



Career Cluster: Architectural Drafting	 <p>ACADEMY OF ARCHITECTURAL DESIGN & TECHNOLOGY PEDRO MENENDEZ HIGH SCHOOL</p>	CTE Program: The Academy of Architectural Design and Technology Secondary: Pedro Menendez High School, St. Johns County School District: Drafting 872500
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Career Cluster Pathway: Architectural and Engineering Design/Drafting	Industry Certification: Secondary: Autodesk AutoCAD (ADESK002), Revit (ADESK008), Inventor (ADESK011)
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	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 (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 xello.world 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. • Cumulative GPA of 2.0 on a 4.0 scale for 24 credit programs 							
	9th	English 1 (H)	Algebra 1 or Geometry (H)	Environmental Science	World History (H)	HOPE – Health Opportunities through Physical Education	Architectural Drafting 1-8725010	Elective or Foreign Language
	10th	English 2 (H)	Geometry (H) or Algebra 2 (H)	Biology (H)	Government (H)	Fine or Practical Arts (optional)	Architectural Drafting 2-8725020	Elective or Foreign Language
	11th	English 3 (H, DE)	<u>ONE Each Year</u> Algebra 2 (H) AP Pre-Calculus Statistics (H)	<u>ONE Each Year</u> Anatomy (H) Physics (H)	US History (H)	Elective	Architectural Drafting 3-8725030	Additional Architectural Drafting or Elective
	12th	English 4 (H, DE)	Math for College Liberal Arts Math for Data & Financial Literacy	<u>ONE Each Year</u> Marine Science (H) Earth Space (H) Chemistry (H)	Economics (H/DE)/Financial Literacy	Elective	Architectural Drafting 4-8725040 and Coop	Additional Architectural Drafting or Elective

CAREER 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)		UNIVERSITY PROGRAM(S)				FL COLLEGE SYSTEM(S)	
	FL State College at Jacksonville: Drafting 10 month certificate program in AutoCAD Foundations and Drafting Seminole State College, Sanford: Computer-Aided Design Technical Certificate – 10 month program		University of N FL, Jacksonville – Civil/Electrical/Mechanical Engineering B.S., Advanced Manufacturing Engineering B.S. University of FL, Gainesville: Engineering – Civil/Mechanical B.S., Architecture B.D., Electrical Engineering B.S., Materials Science and Engineering B.S., Mechanical Engineering B.S., University of Central FL, Orlando: Engineering -- Civil, Environmental, Electrical, Mechanical, Materials Science,				Daytona State College AutoCAD Foundations A.S. Tallahassee Community College Drafting and Design Technology A.S. Valenica College, Orlando: Civil/Surveying Engineering Technology Associate A.S.	

CAREER	Sample Career Specialties							
	Engineer of Architecture, or Civil, or Structural, Transportation, Water Resources, Construction, Mechanical, Environmental, Geological, Surveyor, Draftsman							

CREDIT	Articulation and CTE Dual Enrollment Opportunities							
	Secondary to College Credit Certificate or Degree (Minimum # of clock or credit hours awarded)							
	Autodesk Certified User – AutoCAD (ADESK002) three (3) college credits to the AS degree in Architectural Design & Construction Technology (1604090100) OR Computer-Aided Drafting and Design (1615130202) Autodesk Certified User – Revit Architecture (ADESK008) three (3) college credits to the AS degree in Architectural Design & Construction Technology (1604090100) OR Computer-Aided Drafting and Design (1615130202) OR Building Construction Technology (1615100102) Autodesk Certified User – Inventor (ADESK011) three (3) college credits to the AS degree in Engineering Technology (1615000001)							

Career and Technical Student Association	Other Student Organization
Skills USA	ACE mentor program of Northeast Florida-Architecture-Construction-Engineering

Internship/Work Experience Recommendations Career Academy students may apply for summer internships after their junior year. Sample internships: Engineering Firms-Russel Rowland and Matthews Group, Northrop Grumman and more.
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ARCHITECTURAL DESIGN AND TECHNOLOGY Academy Progression

Architectural Drafting 1
Students learn the latest in 2D and 3D drafting skills.
Students can earn certification in *AutoCAD.
8725010



Architectural Drafting 2
Expand drafting skills used by structural engineers, architects, MEP engineers, designers, and contractors.
Students can earn their industry *Revit certification.
8725020



Architectural Drafting 3
Internship and business mentorship opportunities to enhance drafting skills.
Students can earn their industry *Inventor certification.
8725030



Architectural Drafting 4
Deepen understanding of drafting skills to make students workforce or college ready.
Opportunity for work-based internships.
8725040



Architectural Drafting 5
Advanced architectural design including mechanical, electrical and plumbing engineering for residential designing.
8725050



Architectural Drafting 6
Advanced architectural design including mechanical, electrical and plumbing engineering for commercial designing.
8725060

***Certification can earn college credit**