


Career Cluster: Architecture and Construction (STEM)	CTE Program: Secondary: Academy of Innovation in the Built Environment – Building Trades and Construction Design Technology (8722000) Toco Creek High School, St. Johns County School District							
Career Cluster Pathway: Construction	Industry Certification: Secondary: Autodesk Certified Professional - AutoCAD (ADESK002), Autodesk Certified User - Revit Architecture (ADESK008), LEED Green Associate (GRBC1002)							
	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 STATE COLLEGE & UNIVERSITY SYSTEM PROGRAMS)	
HIGH SCHOOL	<ul style="list-style-type: none"> 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, English Honors 1	Algebra 1, Algebra 1 Honors, Geometry Honors, Algebra 2 Honors	Environmental Science, Physical Science, Biology 1 Honors	AP Human Geography or Elective	HOPE – Health Opportunities through Physical Education	Introduction to Construction Management (Building Trades and Construction Design Technologies 1 – 8722010)	Elective
	10th	English 2, English Honors 2	Liberal Arts Math 1, Geometry, Geometry Honors, Pre-Calculus Honors	Biology, Biology Honors, Chemistry, Chemistry Honors	AP World History, World History, World History Honors	World Language 1	Construction Management Foundations (Building Trades and Construction Design Technologies 3 – 8722030)	Elective
	11th	English 3, English Honors 3 DE Freshman English 1 ENC 1101, AP Language	Geometry, Algebra 2, Algebra 2 Honors, AP Calculus AB	Marine Science, Marine Science Honors, Earth Science, Anatomy and Physiology Honors, Chemistry, Chemistry Honors, Physics Honors	AP US History, US History, Dual Enrollment AMH 2010	World Language 2	Construction Design and Technique (Course code pending FLDOE approval)	Elective
	12th	English 4, English Honors 4, AP or DE Freshman English 1 (ENC1102), AP Literature	Financial Algebra, Math for College Readiness, Probability and Statistics, AP Statistics, AP Calculus BC	AP Biology, AP Chemistry, AP Environmental Science, AP Physics	American Government .5 + Economics .5, AP Macro/Micro Econ, AP US Fed Gov't	Elective	Construction Project Management (Building Trades and Construction Design Technologies 6 – 8722060)	Elective
Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.								
POSTSECONDARY	TECHNICAL COLLEGE PROGRAM(S)	STATE COLLEGE PROGRAM(S)				UNIVERSITY PROGRAM(S)		
	First Coast Technical College, St. Augustine: Heating, Ventilation, Air Condition/Refrigeration	Florida State College at Jacksonville: College Credit Certificates (CCC): Computer Aided Technical Design (T.C.), Heating Ventilation, Air Condition/Refrigeration (C.C.) Associate in Science (A.S.) Degree in Building Construction Technology (Construction Management) Santa Fe State College, Gainesville: Associate in Arts Advisement Track (A.A.) Building Construction Associate in Science (A.S.) Building Construction Management Technology Certificate Programs: Carpentry Apprenticeship, Air Conditioning, Refrigeration, and Heating Technology, Heating and Air Conditioning Installer/Service, Plumbing Apprenticeship, Plumbing Technology				University of North Florida, Jacksonville: College of Computing, Engineering & Construction – Building Construction (B.S.), MBA with concentration in Construction Management, Minor in Construction Management University of Florida, Gainesville: College of Design, Construction & Planning - Construction Management (B.S.), Construction Management (MCM), Construction Management (MSCM), International Construction Management (MICM)		

Sample Career Specialties from the Demand Occupations List

CAREER

Brickmasons and Blockmasons, Carpenters, Cement Masons and Concrete Finishers, Construction and Building Inspectors, Construction Laborers, Drywall and Ceiling Tile Installers, Electricians, First-Line Supervisors of Mechanics, Installers, and Repairers, Heating, Air Conditioning, and Refrigeration Mechanics and Installers, Operating Engineers and Other Construction Equipment Operators, Painters, Construction and Maintenance, Plumbers, Pipefitters, and Steamfitters, Roofers

Construction Managers, Cost Estimators, First-Line Supervisors of Construction Trades and Extraction Workers, General and Operations Managers,

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Career and Technical Student Association

Architecture, Construction, Engineering (ACE) Mentor Program; Skills USA

Internship/Work Experience Recommendations

Career Academy students may apply for summer internships after their junior year.

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