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| Career Cluster: Architecture and Construction (STEM) | | CTE Program: Secondary: Academy of Innovation in the Built Environment – Building Construction Management (8104600) Tocoi 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), HBI Pre-Apprenticeship Certificate Training (PACT), Core (HBINS004), HBI Pre-Apprenticeship Certificate Training (PACT), Core Green (HBINS005) | | | | | | | |
|  | | 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 | | | | | | | | |
| | 9 th | English 1, English Honors 1 | Algebra I, 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 | Construction Management Foundations (8104610) | Elective | |
| | 10 th | 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 Design and Technique (8104620) | Elective | |
| | 11 th | 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 Project Management (8104630) | Elective | |
| | 12 th | 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 | Entrepreneurship in Architecture, Construction, and Engineering (8104640) | 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 | | | 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 | | | |

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| | | Certificate Programs: Carpentry Apprenticeship, Air Conditioning, Refrigeration, and Heating Technology, Heating and Air Conditioning Installer/Service, Plumbing Apprenticeship, Plumbing Technology | Management (MSCM), International Construction Management (MICM) |
| CAREERS | Sample Career Specialties from the Demand Occupations List | | |
| | 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 | Construction Managers, Cost Estimators, First-Line Supervisors of Construction Trades and Extraction Workers, General and Operations Managers |
| 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 | | | |