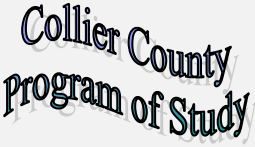


Career Cluster: Architecture and Construction
 Career Cluster Pathway: Design/Pre-Construction

CTE Program: **Bldg. Trades & Construction and Design Tech. (8722000)**
 Industry Certification: NCCER005, NCCER008

16 REQUIRED CREDITS

8 ELECTIVE CREDITS REQUIRED

	ENGLISH (4 credits)	MATH (4 credits)	SCIENCE (3 credits, 2 with lab)	SOCIAL STUDIES (3 credits)	CAREER EDUCATION PROGRAM COURSES		RECOMMENDED ELECTIVES (State University Aligned) (One virtual course is required)
	AP- Adv. Placement DE- Dual Enrollment	AP- Adv. Placement DE- Dual Enrollment	AP- Adv. Placement DE- Dual Enrollment	AP- Adv. Placement DE- Dual Enrollment	Other Requirements: Pass FCAT 2/PARC – Reading Level 3, pass Algebra I EOC, and 30% of EOC Exam for Biology, Algebra 2, Geometry, US History		

Dual enrollment and CTE courses satisfy graduation and Bright Futures Gold Seal Vocational Scholarships. 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 www.flvs.org and your counselor.

HIGH SCHOOL	9	English I or Honors (1)	Algebra 1 or Honors (1)	Earth & Space Science or Honors (1)	Digital Design Technology (1) (*Art requirement)	HOPE (1)	Bldg. Trades and Construction Design Tech. I (1)	Elective (1)	
	10	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)	Weight Training or Elective (1)	Bldg. Trades and Construction Design Tech. II (1)	Foreign Language 1 (1)	
	Students are encouraged to take the ACT, SAT or PERT during 11th grade. Scores on the FCAT, FACT 2.0 and EOCs' should determine college readiness								
	11	English 3 or Honors or DE or AP (1)	Geometry/H or Algebra 2/H Course or DE or AP (1)	Chemistry /H or Physical Science/H or Physics /H or DE or AP (1)	American History or Honors, DE or AP (1)	Elective (1)	Bldg. Trades and Construction Design Tech. III-H (1) (Art Requirement)	Foreign Language 2 (1)	
	12	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/H or Other Elective (1)	Am Gov/Economics or Honors or DE or AP (1)	Adv. Technology Application -H or Industrial OJT (1)	Bldg. Trades and Construction Design Tech. IV (1)	FL Virtual Course (1)	

PSTSECONDARY	Based on this Career Cluster and identified career and identified technical education program, the following postsecondary options are available.						
	TECHNICAL CENTER PROGRAM(S)		COMMUNITY/STATE COLLEGE PROGRAM(S)			UNIVERSITY PROGRAM(S)	
	PSAV Certification I460601 Building Construction Technologies (1050 hrs)- ITC I463112 Brick and Block Masonry (1650 hrs) - ITC I460314 Electrician (1500 hrs)- ITC		-Bldg. Const. Tech., AS (60c r.) Broward College -Architectural Design & Construction Technology, AS , (66 Cr.) - FSW -Industrial Management Technology AS (61Cr) – SFSC -Drafting & Design Technology, AS (12 cr.) - Statewide -Const. Mgmt. Tech., AS (62-65cr.) - SCF			-Civil Engineering, BS (128 cr.) - FGCU -Environmental Engineering, BS (128 cr.) - FGCU -Information Systems Mgmt, BS including (48 cr.) of Design & Drafting Track - Hodges University -Design & Drafting, AS (60 cr.) - Hodges University -Technology Education Teacher, BS , (129 cr.) - statewide	

ARTICULATIONS/ CREDIT	High School Students to PSAV Technical Center Program	Technical Center or High School to Community or State College	State and Community Colleges to Universities
	(Hours awarded are based on competencies achieved) HS 8722000 Bldg. Trades Const. Design Tech. 8722010 Bldg. Trades Const. Tech. I 8722020 Bldg. Trades Const. Tech. II 8722030 Bldg. Trades Const. Tech. III 8722040 Bldg. Trades Const. Tech. V TO: (ITEC) PSAV I460401 Building Const. Technologies BCV0400, BCV0401, BCV0402 OCP A Building Construction Helper(450) OCP B Building Construction Tech. (300) OCP C Building Construction Tech. (300)	FL Southwestern State College: PSAV 900 hour program completion =(9 cr.) toward AS in Business Mgmt. & Administration or CCC in Small Business Management Statewide Articulation: (1) PSAV program I460401 to all state community colleges in Construction Technology, AAS/AS = (3 cr.) (2) NCCER008 certification = (3 cr.) toward AAS/AS Architectural Design and Construction Tech. (and) (3 cr.) toward AAS/AS Building Construction Technology (3) NCCER005 certification = (3 cr.) toward AAS/AS in Carpentry Management	FL Southwestern State College to Hodges University -Interdisciplinary Studies, BS (62 hrs) -Computer Information Tech., BS (62 hrs) -College of Education: Technology Education Teacher, BS (62 cr.) Statewide Articulation: -Construction Technology, AS to Technology Ed. Teacher, BS (63 cr.) toward (129 cr.) -Regional AS Degree = 60 cr. toward BAS degree (120 cr.) in Applied Science
Based on the Career Cluster of interest and identified CTE program the following are sample career specialties			
CAREERS	Technical Centers	Community Colleges	4 Year Colleges and Universities
	(DOL) Carpenters (DOL) Electricians (DOL) Maintenance and Repair Workers, General (DOL) Plumbers, Pipefitters, and Steamfitters (DOL) Roofers (DOL) Sheet Metal Workers (DOL) Pipelayers (DOL) Welders, Cutters, Solderers and Brazers (DOL) Brick masons and Blockmasons	Civil Engineering Technicians (DOL) Construction Managers (HSHW) (DOL) First-Line Supervisor of Construction Extraction Workers (HSHW) (DOL) General & Operations Managers (DOL) Cost Estimator (HSHW) (DOL) Surveying and Mapping Technicians Construction Superintendent (DOL) Vocational Ed. Teachers, Postsecondary (HSHW)	General Contractor/Builder (DOL) Construction and Building Inspectors (HSHW) (DOL) General & Operations Managers (HSHW) Surveyors Urban & Regional Planner Project Manager Safety Engineer (DOL) Civil Engineers – (HSHW)
INDUSTRY CERTIFICATIONS			
All certifications offered to students in this POS: NCCER008 NCCER Construction Technology, National Center for Construction Education & Research (NCCER) NCCER005 NCCER Carpentry - Levels 1- National Center for Construction Education & Research (NCCER) NCCER Core - National Center for Construction Education & Research (NCCER)			
CAREER AND TECHNICAL STUDENT ASSOCIATION			
Skills USA, Inc.			
INTERNSHIP/WORK EXPERIENCE RECOMMENDATIONS			
Work, intern, volunteer, shadow workers on a construction site, city or county government planning office. Attend a builders' association meeting. Join Skills USA at your school and get involved in local, regional, and state competitions. Refer to http://collierschools.com/careertech/internships.htm 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: http://www.fldoe.org/academics/graduation-requirements		

Building Trades and Construction Design Technology (HS) #8722000