

CAREER - TECHNICAL EDUCATION

2016-2017 CAREER PATHWAYS PLANNING GUIDE

The School Board of Hardee County





A Message From The Director

Dear Parents and Students:

Career and Technical Education (CTE) offers vocational programs at both Hardee Junior High and Hardee High School. Career and technical programs of study are designed to supplement the core academics for all students and are counted as elective graduation requirements.

Career and Professional Education (CAPE) Academies are CTE programs which also meet additional statutory requirements for high standards. These academies provide students the opportunity to earn industry certifications, including Agricultural Technician, ServSafe (Culinary), Microsoft Office Specialist, Certified Nursing Assistant (CNA), Early Childhood Professional Certificate (ECPC), Automotive Maintenance and Light Repair, Administrative Office Specialist and Carpentry Level 1. 8th grade students have the opportunity to earn high school credit by taking Introduction to Information Technology (begin Microsoft Office certifications), Ag Foundations which is the first course for the Ag Tech and Ag Biotech programs.

The information contained in this publication reflects high school opportunities and a wide range of postsecondary possibilities. After high school, graduates may decide to go directly into a career, further their education or do a combination thereof.

Students, please take the time to read this information. You are beginning to explore the world of work and higher education; this guide will help as you begin developing a plan to reach your goals. Your personal college and career plan will assist you in obtaining a great foundation that will give you a "jump start" on your future! CTE truly prepares students to be College and Career ready!

Sincerely,
Mike Wilkinson, Director of Career, Technical and Adult Education

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Hardee District does not discriminate on the basis of race, color, national origin, gender, age, disability, marital status or genetic information in its educational programs, services or activities, or in its hiring or employment practices. The district also provides equal access to its facilities to the Boy Scouts and other patriotic youth groups, as required by the Boys Scout of America Equal Access Act. Questions, complaints, or requests for additional information regarding discrimination or harassment may be sent to:

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What is CTE?

CTE stands for Career and Technical Education, which prepares you for more than just a good job!

- CTE programs introduce students to education pathways that allow them to explore their interests and careers while in high school in addition to normal graduation requirement classes.
- All CTE programs naturally emphasize core academic subjects within a real-world, career context. For example, in Construction Technology, students apply knowledge and skills learned in geometry and physics.
- CTE students develop both technical skills and employability skills related to a career area.



Did You Know? *Students who complete a rigorous academic core coupled with a career concentration have test scores that equal or exceed non-CTE college preparatory students. These dual concentrators are more likely to pursue postsecondary education, have a higher GPA in college and are less likely to drop out in the first year. - Southern Regional Education Board "Facts About High School Career/Technical Studies"*

Who are CTE students?

All students can be CTE students because Career and Technical Education is for everyone!

CTE programs are for all students and encompass a variety of challenging careers requiring varying levels of education from high school to advanced college degrees.

Hardee County Schools offer CTE programs in the following career clusters:

Agriculture, Food
and Natural
Resources

Architecture
and
Construction

Education and
Training

Health Science

Hospitality
and Tourism

Information
Technology

Transportation
Distribution
and Logistics

**Why
should I be
in CTE?**

Career and Technical Education offers many benefits that help you prepare for your future!

Gain job training through real-world experiences

Earn or work toward an industry certification


Take advantage of scholarship opportunities

Participate in hands-on activities and instruction

Acquire relevant skills for employment

Improve academic achievement

Develop life skills such as leadership, teamwork and citizenship

 **Did You Know?** *A person with a CTE-related associate degree or credential will earn on average between \$4,000 and \$19,000 more a year than a person with a humanities associate degree.*

- Jacobson and Mokher, Pathways to Boosting the Earnings of Low- Income Students by Increasing Their Educational Attainment, Hudson Institute Center for Employment Policy and CNA for the Bill and Melinda Gates Foundation, 2009.

How do I get started in CTE?

Choose the career pathway that is right for you!

- **Know your interests.** Career interest surveys help you to identify specific careers that match your personality and abilities.
- **Talk with others.** Discuss your career interests with your parents, teachers, counselors and friends.
- **Try something new.** CTE programs allow you to explore many career opportunities. You may discover one that is perfect for you!



Did You Know?

*Florida provides a free website, www.floridashines.org, which “helps middle school and high school students understand their options, select a graduation plan and map out their high school coursework and postsecondary education needed to prepare them for their chosen career path.” From the home page, select **Find a Career** then click on **MyCareerShines**. Follow the prompts for Middle or High School and create an account by registering.*




Did You Know?

You can find more detailed information concerning Bright Futures Scholarships by visiting: www.FloridaStudentFinancialAid.org/SSFAD/bf

How will CTE prepare me for a career?

Students in CTE Career and Professional (CAP) Academies can earn industry certifications within their chosen career field.

Program	Certification/Credential Title	Issuing Organization/Provider	Primary Career Cluster ¹
Administrative Office Specialist	Microsoft Office Specialist (MOS) Bundle Certification (3 of 6)	Microsoft Corporation	Business Management and Administration
Ag Biotechnology	Agricultural Biotechnology Certification	Agricultural Education Services and Technology Inc.	Agriculture, Food and Natural Resources
Agritechnology	Agritechnology Certification	Agricultural Education Services and Technology Inc.	Agriculture, Food and Natural Resources
Auto Technology	ASE - Auto Maintenance and Light Repair (G1)	National Institute for Automotive Service Excellence	Transportation, Distribution & Logistics
Construction Technology	NCCER Carpentry - Level 1 (Secondary)	National Center for Construction Education & Research (NCCER)	Architecture & Construction
Culinary Arts	Certified Food Protection Manager (ServSafe®)	National Restaurant Association Educational Foundation	Hospitality & Tourism
Early Childhood	Child Development Associate (CDA)	Council for Professional Recognition	Education & Training
Nursing Assistant	Certified Nursing Assistant (CNA)	Florida Department of Health	Health Science

 **Did you know?** *A person with an associate degree or two-year credential will earn, on average, over \$5,000 a year more than a person with just a high school diploma. - Jacobson, L., et al, Pathways to Boosting the Earnings of Low Income Students by Increasing Their Educational Attainment, Gates Foundation/Hudson Institute, 2009*

What programs are offered?

Career And Technical Education Program Descriptions

Agriculture Biotechnology The content includes the history of biotechnology, applications of biotechnology as it relates to culture, society and potential applications, scientific investigation, problem solving, laboratory skills and safety procedures, application of genetic principles in agricultural production, application of biotechnology to Agriculture, Food and Natural Resources(AFNR), quality control procedures, regulatory guidelines, tissue/cell culture techniques, application of biotechnology in the environment, agribusiness, leadership, employability, communication and human relations skills. Science and mathematics are embedded within this curriculum.



Agritechnology The content includes the history of agriculture, agriculture's impact on the economy, safety, plant science, animal science, use of tools and equipment, agribusiness, employability, human relation skills, leadership, citizenship, animal health/nutrition, animal production and reproduction, exhibiting animals, plant production systems, fertilizers, irrigation, pest control, harvesting and marketing, agribusiness finance, oral and written communication, problem solving, critical thinking, innovation, information technology, teamwork, environmental management, regulatory compliance, entrepreneurship, ethics, legal responsibilities and personal money-management. Science and mathematics concepts are the academic focus of this program of study.

Automotive Maintenance and Light Repair The content includes safety regulations, routine maintenance, transmission and transaxle, brakes, electrical system, fuel systems, chassis, engine performance, cooling systems, lubrication, mechanical systems, tires, passenger restraint system, diagnostics, preventative maintenance, communication, human relations and employability skills. Mathematics and science concepts are the academic focus of this program of study.





Building Construction Technologies The content includes safety and disaster plans, the construction industry, basic hand tools, power tools, blueprints/construction documents, masonry, carpentry, roofing, plumbing, heating ventilation and air-cooling (HVAC) systems, floor systems, stairs, walls and ceilings, exterior finishes, drain waste and vent systems (DWV), electrical systems, codes and regulations, site preparation/maintenance, cost estimating, sustainability issues, communication skills, employability skills, human-relation skills, career exploration. This program of study naturally integrates the academic subjects of mathematics and science.

Culinary Arts The content includes food preparation and serving, food identification, food storage, selection, presentation, dining room operations skills, equipment operation skills, general housekeeping, entrepreneurship, communication, leadership, human relations, employability skills, safety and efficient work practices. Science and mathematics concepts are naturally embedded within this program of study.



Early Childhood Education Whether you want to be a teacher, a childcare professional, a babysitter, a parent someday or a knowledgeable aunt or uncle the content of this course will benefit you. The content includes the following: characteristics and principles of human development, developmentally appropriate practices for children from birth through age eight, discipline, creating curriculum, and setting up an appropriate environment. Social studies, science, language arts and mathematics are naturally embedded within this curriculum.

Administrative Office Specialist This program presents the opportunity for students to learn the skills needed to not only become more employable, but also to be a well-rounded businessperson. These goals are met by offering a sequence of courses where the content includes workplace communications, problem-solving, job readiness, career exploration, human relation skills, employability, management and supervision, office technology, office procedures, customer service strategies, decision-making skills, professional ethics and legal responsibilities, efficiency, quality control, leadership, teamwork, personal money management, digital design, work-based learning, software applications and relevant employment portfolios.

Nursing Assistant The content includes anatomy and physiology, medical terminology, cells and tissues, wellness and disease, health care delivery, careers, communication, professional ethics, legal responsibilities, safety, regulatory compliance, emergency response, infection control, information technology, employability, entrepreneurship, personal money-management, problem solving, critical thinking, creativity and innovation, teamwork, leadership, human resources, nurse assisting, patient care, nutrition, geriatrics, biological/psychosocial/ social support, supervising organizational functions, patients plan of care, restorative (rehabilitative) activities and adult patient care. Mathematics, science and language arts are naturally integrated within the curriculum.






Did You Know?



Eighty percent of high school students taking a college preparatory academic curriculum with rigorous CTE met college and career readiness goals, compared to only 63 percent of students taking the same academic core who did not experience rigorous CTE. - Southern Regional Education Board, High Schools That Work 2012 Assessment



Credit is given to Lake County Career and Technical Education Department for brochure design and some content.



The following pages outline the program of study for each CTE pathway. Information includes courses to be taken, training available beyond high school and employment options.



Career Cluster: Business Management and Administration				CTE Program: Administrative Office Specialist (8212500)				
Career Cluster Pathway: Administrative Office Specialist				Industry Certification: Microsoft Office Specialist (MICR0079)				
		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)
 HIGH SCHOOL	<p>Students are encouraged to use flchoices.org to explore careers and postsecondary options.</p> <p>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.</p> <p>Students planning to enroll in any postsecondary <i>degree</i> program should take the Postsecondary Education Readiness Test (PERT) in eleventh grade if they do not earn college-ready scores on the FCAT/FSA or subject area end-of-course exam.</p>							
	9 th	English I	Algebra 1	Physical Science		Leadership	Introduction to Information Technology	Elective course appropriate for student's career and education plan.
	10 th	English II	Geometry	Biology	World History	Physical Education (Per. Fitness/ PE Elective)	Administrative Office Technology 1	Spanish I for SUS admission or other elective appropriate for student's career and education plan.
	11 th	English III	Algebra II or Liberal Arts Math	Chemistry	American History	Practical Arts or Fine Arts course (1 credit)	Digital Design 1	Spanish II for SUS admission or other elective appropriate for student's career and education plan.
	12 th	English IV	ADDITIONAL MATH (INCLUDING DUAL ENROLLMENT)	Additional Science appropriate for career plans	US Government/ Economics		Administrative Office Technology 2	Other elective course appropriate for student's career and education plan.
POSTSECONDARY	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.							
	TECHNICAL Occupational PROGRAM(S)	COMMUNITY COLLEGE PROGRAM(S)				UNIVERSITY PROGRAM(S)		
	Certificates: Accounting Operations, Administrative Office Specialist, Digital Design	South Florida State College A.S. Degrees A.S. Degrees: Business Administration, Office Administration, Accounting Technology, Supply Chain Management, Office Administration A.S. to B.A.S Career Path: Organizational Management Certificates: Business management, Business Operations, Business Specialist; Office Management, Office Specialist, Office Support				B.S. Degrees: Accounting, Economics, Finance, General Business Administration, Management, Marketing, Real Estate M.B.A. Degree: Business Administration		
CAREER	Administrative Assistant, Bookkeeping/Accounting/Auditing Clerk, Business Operations Specialist, Executive Secretary, Human Resource Assistant	Administrative Assistant, Bookkeeping/Accounting/Auditing Clerk, Business Operations Specialist, Executive Secretary, Human Resource Assistant , Entrepreneur/Business Owner				Accountant, Auditor, Economist, Entrepreneur/Business Owner, General/Operations Manager, Marketing Manager, Real Estate Agent/Broker, Vocational (Business) Teacher		
CAREER CREDIT	Articulation and CTE Dual Enrollment Opportunities							
	Secondary to Technical Occupational (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 may be included here)		
Career and Technical Student Association								
Business Professionals of America (BPA) & FBLA								
Internship/Work Experience Recommendations								



Career Cluster: Agriculture, Food and Natural Resources				CTE Program: Agriculture Biotechnology (8003100)				
Career Cluster Pathway: Agritechnology				Industry Certification: Agriculture Biotechnology (FLFBR002)				
	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)	
HIGH SCHOOL 	<p>Students are encouraged to use filchoices.org to explore careers and postsecondary options.</p> <p>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.</p> <p>Students planning to enroll in any postsecondary <i>degree</i> program should take the Postsecondary Education Readiness Test (PERT) in eleventh grade if they do not earn college-ready scores on the FCAT/FSA ELA or subject area end-of-course exam.</p>							
	9 th	English I	Algebra 1	Physical Science		Leadership	Ag Foundations	Elective course appropriate for student's career and education plan.
	10 th	English II	Geometry	Biology	World History	Physical Education (Per. Fitness/PE Elective)	Biotechnology 2	Spanish I for SUS admission or other elective appropriate for student's career and education plan.
	11 th	English III	Algebra II or Liberal Arts Math I	Chemistry	American History	Practical Arts or Fine Arts course (1 credit)	Biotechnology 3	Spanish II for SUS admission or other elective appropriate for student's career and education plan.
	12 th	English IV	ADDITIONAL MATH (INCLUDING DUAL ENROLLMENT)	Additional Science appropriate for career plans	US Government/ Economics			Other elective course appropriate for student's career and education plan
POSTSECONDARY	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available. Agricultural biotechnology is a collection of scientific techniques used to improve plants, animals and microorganisms.							
	TECHNICAL Occupational PROGRAM(S)		COMMUNITY COLLEGE PROGRAM(S)			UNIVERSITY PROGRAM(S)		
	None <u>South Florida State College</u>		<u>South Florida State College</u> College Credit Certificates BioMass Cultivation Specialist Landscape and Horticulture Professional Landscape and Horticulture Technician Associate in Science Degree Programs (A.S.) BioMass Cultivation Specialist Landscape and Horticulture Technology			<u>South Florida State College</u> BAS - Bachelor of Supervision and Management with a concentration in Agriculture		
CAREER	<u>First-Line Supervisors of Landscaping, Lawn Service, Groundskeeping, Greenhouse or Field Technician</u>		Grower, Foreperson or Manager, Agriculture Equipment operator, Harvest Supervisor, Biofuels Technology			Supervisor or Manager in the Agriculture Industry.		
	Articulation and CTE Dual Enrollment Opportunities							
CAREER CREDIT	Secondary to Technical Occupational (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 may be included here)		
Career and Technical Student Association								
FFA								
Internship/Work Experience Recommendations								

Career Cluster: Agriculture, Food and Natural Resources				CTE Program: Agritechnology (8106800)				
Career Cluster Pathway: Agritechnology				Industry Certification: Agriculture Technician (FLFBR001)				
	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)	
 HIGH SCHOOL	<p>Students are encouraged to use flchoices.org to explore careers and postsecondary options.</p> <p>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.</p> <p>Students planning to enroll in any postsecondary <i>degree</i> program should take the Postsecondary Education Readiness Test (PERT) in eleventh grade if they do not earn college-ready scores on the FCAT/FSA or subject area end-of-course exam.</p>							
	9 th	English I	Algebra 1	Physical Science		Leadership	Ag Foundations	Elective course appropriate for student's career and education plan.
	10 th	English II	Geometry	Biology	World History	Physical Education (Per. Fitness/PE Elective)	Ag Tech 1	Spanish I for SUS admission or other elective appropriate for student's career and education plan.
	11 th	English III	Algebra II or Liberal Arts Math I	Chemistry	American History	Practical Arts or Fine Arts course (1 credit)	Ag Tech 2	Spanish II for SUS admission or other elective appropriate for student's career and education plan.
	12 th	English IV	ADDITIONAL MATH (INCLUDING DUAL ENROLLMENT)	Additional Science appropriate for career plans	US Government/Economics			Vet Assistant
POSTSECONDARY	<p>Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.</p> <p>Pathway Description: People who work in this group of occupations study plants and how they grow. They help farmers to take care of natural resources and protect the environment. They also figure out ways to increase the food value of crops and how to make them less subject to pests and lack of rain.</p>							
	TECHNICAL Occupational PROGRAM(S)	COMMUNITY COLLEGE PROGRAM(S)				UNIVERSITY PROGRAM(S)		
		<u>South Florida State College</u> College Credit Certificates BioMass Cultivation Specialist Landscape and Horticulture Professional Landscape and Horticulture Technician Associate in Science Degree Programs (A.S.) BioMass Cultivation Specialist Landscape and Horticulture Technology				<u>South Florida State College</u> BAS - Bachelor of Supervision and Management with a concentration in Agriculture Other Institutions Agriculture Business Operations Ag (Food and Resource) Economics Agricultural Science Animal Science Food Sciences and Technology Horticulture Science Plant Science Soils Science		
CAREER	First-Line Supervisors of Landscaping, Lawn Service, Groundskeeping, First-Line Supervisors of Logging Workers, First Line Supervisors of Retail Sales Workers, Floral Designers Retail, Salespersons, Tree Trimmers and Pruners	Agricultural and Food Science Technicians, Agricultural Technicians, First-Line Supervisors of Agricultural Crop and Horticultural Workers, First-Line Supervisors of Farming, Fishing, and Forestry Workers, Food Science Technicians, Nursery and Greenhouse Managers, Pesticide Handlers, Sprayers, and Applicators, Vegetation, Grower, Foreperson or Manager, Agriculture Equipment operator, Harvest Supervisor, Biofuels Technology				Aquacultural Managers, Farm and Ranch Managers, Farmers, Ranchers, and Other Agricultural Managers, First-Line Supervisors of Aquacultural Workers, Food Scientists and Technologists, Foresters, Soil and Water Conservationists		
CAREER CREDIT	Articulation and CTE Dual Enrollment Opportunities							
	Secondary to Technical Occupational (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 may be included here)		
Career and Technical Student Association								
FFA								
Internship/Work Experience Recommendations								

Career Cluster: Transportation, Distribution and Logistics				CTE Program: Auto Technology (9504100)				
Career Cluster Pathway: Transportation				Industry Certification: Auto Maint. & Light Repair (NIASE076)				
	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)	
 HIGH SCHOOL	<p>Students are encouraged to use fichoices.org to explore careers and postsecondary options.</p> <p>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.</p> <p>Students planning to enroll in any postsecondary <i>degree</i> program should take the Postsecondary Education Readiness Test (PERT) in eleventh grade if they do not earn college-ready scores on the FCAT/FSA or subject area end-of-course exam.</p>							
	9 th	English I	Algebra 1	Physical Science		Leadership	Auto 1	Elective course appropriate for student's career and education plan.
	10 th	English II	Geometry	Biology	World History	Physical Education (Per. Fitness/PE Elective)	Auto 2	Computing for College and Careers
	11 th	English III	Algebra II or Liberal Arts Math I	Chemistry	American History	Practical Arts or Fine Arts course (1 credit)	Auto 3	Spanish I for SUS admission or other elective appropriate for student's career and education plan.
	12 th	English IV	ADDITIONAL MATH (INCLUDING DUAL ENROLLMENT)	Additional Science appropriate for career plans	US Government/ Economics	Other elective course appropriate for student's career and education plan.	Auto 4	Spanish II for SUS admission or other elective appropriate for student's career and education plan.
POSTSECONDARY	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.							
	TECHNICAL Occupational PROGRAM(S)	COMMUNITY COLLEGE PROGRAM(S)				UNIVERSITY PROGRAM(S)		
	<u>South Florida State College</u> Automotive Service Technology	A.A.S. – Automotive Technology A.S. Degree - Automotive Service Management Technology A.S. Degree - Dealer - Specific Automotive Technology				<u>South Florida State College</u> B.A.S. Bachelor's of Applied Science in Supervision and Management		
CAREER	Automotive Service Technician Heavy Duty Equipment Technician Transportation Supervisor Small Engine Mechanic Diesel Service Technician or Mechanic, Helpers--Installation, Maintenance, and Repair Workers	Automotive Dealership Technician, Fleet Maintenance Technician, Automotive Technician, <u>Automotive Master Mechanics, Automotive Service Technicians and Mechanics, Automotive Specialty Technicians, Avionics Technicians, Bus and Truck Mechanics and Diesel Engine Specialists, Electrical and Electronics Installers and Repairers, Transportation Equipment, Electronic Equipment Installers and Repairers, Motor Vehicles, Mobile Heavy Equipment Mechanics- Except Engines, Motorboat Mechanics and Service Technicians, Motorcycle Mechanics, Signal and Track Switch Repairer</u>				Municipal Fleet Service Manager, Automotive Dealership Service Manager, <u>Aerospace Engineering and Operations Technicians</u>		
CAREER CREDIT	Articulation and CTE Dual Enrollment Opportunities							
	Secondary to Technical Occupational (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 may be included here)		
Career and Technical Student Association								
Skills USA								
Internship/Work Experience Recommendations								
Laboratory activities are an integral part of this program. On-the-Job-Training is appropriate but not required.								

Career Cluster: Architecture and Construction				CTE Program: Construction Technology (8720300)				
Career Cluster Pathway: Construction				Industry Certification: NCCER Carpentry (NCCER032)				
	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)	
 HIGH SCHOOL	<p>Students are encouraged to use fchoices.org to explore careers and postsecondary options.</p> <p>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.</p> <p>Students planning to enroll in any postsecondary <i>degree</i> program should take the Postsecondary Education Readiness Test (PERT) in eleventh grade if they do not earn college-ready scores on the FCAT/FSA or subject area end-of-course exam.</p>							
	9 th	English I	Algebra 1	Physical Science		Leadership	Building Construction 1	Elective course appropriate for student's career and education plan.
	10 th	English II	Geometry	Biology	World History	Physical Education (Per. Fitness/PE Elective)	Building Construction 2	Spanish I for SUS admission or other elective appropriate for student's career and education plan
	11 th	English III	Algebra II or Liberal Arts Math I	Chemistry	American History	Practical Arts or Fine Arts course (1 credit)	Building Construction 3	Spanish II for SUS admission or other elective appropriate for student's career and education plan.
	12 th	English IV	ADDITIONAL MATH (INCLUDING DUAL ENROLLMENT)	Additional Science appropriate for career plans	US Government/ Economics		Building Construction 4	Other elective course appropriate for student's career and education plan.
POSTSECONDARY	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.							
	TECHNICAL Occupational PROGRAM(S)		COMMUNITY COLLEGE PROGRAM(S)			UNIVERSITY PROGRAM(S)		
	<u>Other Technical Institutions</u> Carpentry 1 & 2 Building Construction Technologies Building Trades & Construction Design Technology Cabinet making Drafting		Carpentry A.A.S. Civil Engineering Technology A.S. Building Construction Technologies A.S. Architectural Design and Construction Technology A.S. Drafting and Design Technology A.S.			<u>South Florida State College</u> B.A.S. – Bachelor of Applied Science, Supervision and Management <u>Other institutions</u> Civil Engineering BS Landscape Architecture BS Architecture BS Building Construction (Mngt.) BS		
CAREER	<u>Brickmasons and Blockmasons, Carpenters, Carpet Installers, Cement Masons and Concrete Finishers, Construction Carpenters, Construction Laborers, Dredge Operators, Drywall and Ceiling Tile Installers, Earth Drillers-Except Oil and Gas, Electromechanical Equipment Assemblers, Excavating and Loading Machine and Dragline Operators, Explosives Workers, Ordnance Handling Experts and Blasters, Fence Erectors, Floor Layers- Except Carpet, Wood, and Hard Tiles, Floor Sanders and Finishers, Glaziers,</u>		<u>Carpenters, Construction and Building Inspectors, Crane and Tower Operators, Electrical and Electronics Repairers, Powerhouse, Substation, and Relay Electrical Power-Line Installers and Repairers, Electricians, Elevator Installers and Repairers, First-Line Supervisors of Construction Trades and Extraction Workers, Heating and Air Conditioning Mechanics and Installers, Heating, Air Conditioning, and Refrigeration Mechanics and Installers, Maintenance and Repair Workers, General Mechanical Engineering Technicians, Pipe Fitters and Steamfitters, Plumbers, Pipefitters, and Steamfitters, Plumbers, Refrigeration Mechanics and Installers, Security and Fire Alarm Systems Installers, Signal and Track Switch Repairers, Solar Energy Installation Managers, Stationary Engineers and Boiler Operators, Stonemasons, Structural Metal Fabricators and Fitters</u>			<u>Construction Managers, Cost Estimators</u> General Contractor/Builder Construction & Building Inspector		
CAREER CREDIT	Articulation and CTE Dual Enrollment Opportunities							
	Secondary to Technical Occupational (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 may be included here)		
Career and Technical Student Association								
Skills USA, Skills Florida USA								
Internship/Work Experience Recommendations								

Career Cluster: Hospitality and Tourism				CTE Program: Culinary Arts (8800500)				
Career Cluster Pathway: Food Service and Management				Industry Certification: ServSafe (NRAEF003)				
	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)	
 HIGH SCHOOL	<p>Students are encouraged to use fchoices.org to explore careers and postsecondary options.</p> <p>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.</p> <p>Students planning to enroll in any postsecondary <i>degree</i> program should take the Postsecondary Education Readiness Test (PERT) in eleventh grade if they do not earn college-ready scores on the FCAT/FSA or subject area end-of-course exam.</p>							
	9 th	English I	Algebra 1	Physical Science		Leadership	Culinary 1	Elective course appropriate for student's career and education plan.
	10 th	English II	Geometry	Biology	World History	Physical Education (Per. Fitness/PE Elective)	Culinary 2	Spanish II for SUS admission or other elective appropriate for student's career and education plan.
	11 th	English III	Algebra II or Liberal Arts Math I	Chemistry	American History	Practical Arts or Fine Arts course (1 credit)	Culinary 3	Spanish I for SUS admission or other elective appropriate for student's career and education plan.
	12 th	English IV	ADDITIONAL MATH (INCLUDING DUAL ENROLLMENT)	Additional Science appropriate for career plans	US Government/ Economics		Culinary 4	Principles of Food Preparation (Baking and Pastry)
POSTSECONDARY	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.							
	TECHNICAL Occupational PROGRAM(S)		COMMUNITY COLLEGE PROGRAM(S)			UNIVERSITY PROGRAM(S)		
	South Florida State College Food Management, Production, and Services Occupational Certificate		Baking and Pastry Management AS Baking and Pastry Management AAS Culinary Arts CCC Culinary Arts Management Operations CCC Chef's Apprentice CCC Restaurant Management AS Restaurant Management AAS			Restaurant and Food Service Mngt. Hospitality Management B.S. Culinary Nutrition B.S., Baking & Pastry B.S.		
CAREER	Bakers, Bartenders, Butchers and Meat Cutters, Cooks, All Other Cooks, Institution and Cafeteria, Cooks, Restaurant First-Line Supervisors of Food Preparation and Serving Workers		<u>Chefs and Head Cooks, Cooks, Private Household Food Service Managers, Gaming Managers</u>			Food Service Manager		
CAREER CREDIT	Articulation and CTE Dual Enrollment Opportunities							
	Secondary to Technical Occupational (PSAV) (Minimum # of clock hours awarded)		Secondary to College Credit Certificate or Degree (Minimum # of clock or credit hours awarded) Students earning the Certified Culinarian (ACFED002) while in a secondary program will earn 3 credits towards the AS/AAS in Culinary Management.			PSAV/PSV to AAS or AS/BS/BAS The 1500 clock hour program in Commercial Foods and Culinary Arts OR the 750 clock hour program in Commercial Foods and Culinary Arts 1 AND the 750 clock hour program in Commercial Foods and Culinary Arts 2 shall articulate twenty four (24) (accredited programs) or fifteen (15) (non-accredited programs) college credit hours to the AAS/AS Degree in Culinary Management.		
Career and Technical Student Association								
Skills USA; Family, Career and Community Leaders of America (FCCLA)								

Career Cluster: Health Science					CTE Program: Nursing Assistant (8417210)			
Career Cluster Pathway: Therapeutic Services					Industry Certification: Certified Nursing Assistant (FDMQA00200)			
	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)	
 HIGH SCHOOL	<p>Students are encouraged to use flchoices.org to explore careers and postsecondary options.</p> <p>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.</p> <p>Students planning to enroll in any postsecondary <i>degree</i> program should take the Postsecondary Education Readiness Test (PERT) in eleventh grade if they do not earn college-ready scores on the FCAT/FSA or subject area end-of-course exam.</p>							
	9th	English I	Algebra 1	Physical Science		Leadership	Medical Skills and Service	
	10th	English II	Geometry	Biology	World History	Physical Education (Per. Fitness/PE Elective)	Health Science Anatomy and Physiology	Spanish I for SUS admission or other elective appropriate for student's career and education plan.
	11th	English III	Algebra II or Liberal Arts Math	Chemistry	American History	Practical Arts or Fine Arts course (1 credit)	Health Science Foundations	Spanish II for SUS admission or other elective appropriate for student's career and education plan.
	12th	English IV	ADDITIONAL MATH (INCLUDING DUAL ENROLLMENT)	Anatomy and Physiology	US Government/ Economics		Nursing Assistant 3	Psychology and Sociology
POSTSECONDARY	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.							
	TECHNICAL Occupational PROGRAM(S)		COMMUNITY COLLEGE PROGRAM(S)			UNIVERSITY PROGRAM(S)		
	<u>South Florida State College</u> Nurse Assistant Nursing (Practical) ATD – Emergency Technician		<u>South Florida State College</u> CCC – Paramedic A.S. – Nursing (Generic RN) A.S. – Nursing (Transition LPN to RN)			<u>South Florida State College</u> Registered Nurse RN/B.S. <u>Other University Programs</u> Adult Gerontology MS Primary Care Acute Care Clinical Nurse Leader MS Family Nurse Practitioner MS Nurse Anesthesia MS Nursing Education MS		
CAREER	Certified Nursing Assistant Medical Assistant Health Unit Coordinator/Unit Clerk Patient Care Technician Surgical Technologist Emergency Medical Responder Emergency Medical Technician EKG Technician		Paramedic Emergency Medical Responder or Technician			Registered Nurse Nurse Educator Nursing Specializations Health Care Administrator Nursing Home Administrator		
CAREER CREDIT	Articulation and CTE Dual Enrollment Opportunities							
	Secondary to Technical Occupational (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 PSAV/PSV to AAS or AS - 1350 clock hour program in Practical Nursing shall articulate ten (10) college credit hours to the AAS/AS Degree in Registered Nursing. AS to BSN - The total hours required for the AS to BS articulated nursing degree program shall be no more than 128 credit hours.		
Career and Technical Student Association								
HOSA								
Internship/Work Experience Recommendations								
Work, volunteer, intern, shadow at hospitals, clinics, nursing and rehabilitation facilities and school nurse or district or community clinics.								

