


Career Cluster: Science, Technology, Engineering & Math STEM					CTE Program: Academy of Biotechnology and Medical Research			
Career Cluster Pathway: health sciences/Biotechnology Research & Development					Industry Certification: University of Florida Biomedical Technician (H170206) Biomedical Equipment Maintenance and Repair Technology (workforce certificate); Bioinformatics (Advanced Certificate) FSCJ: Biotechnician Assistant (CERHB001)			
	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	<ul style="list-style-type: none"> Students are encouraged to use fchoices.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	Geometry (H)	Biology 1 Honors	Social Studies	HOPE – Health Opportunities through Physical Education	Biotechnology I –(H)	Foreign Language (Latin recommended)
	10th	English 2	Algebra II (H)	Chemistry Honors	Social Studies	Fine or Practical Art	Biotechnology II –(H)	Foreign language (Latin recommended)
	11th	English 3	math	Physics or AP Biology	Social Studies	Elective	Biotechnology III –(H)	Foreign Language (Latin recommended)
	12th	English 4	math	AP science	American Government .5 + Economics.5 DE Macro/Micro Econ & DE US Fed Gov't	Elective	Biotechnology elective –(H)	Foreign language (Latin recommended)
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)		COMMUNITY COLLEGE PROGRAM(S)			UNIVERSITY PROGRAM(S)		
	Biomedical Equipment Maintenance and Repair Technology (workforce certificate); Bioinformatics (Advanced Certificate) Fortis Institute in West Palm Beach, Florida State College Jacksonville		Keiser University: Associate in Biotechnology, FSCJ- Biotechnician Assistant (CERHB001)			Keiser University: BA in Biotechnology University of Florida/Jacksonville University Biomedical Science; Nanotechnology; Agricultural biological engineering; Chemical technology; Biomedical Engineering Technology;		
CAREER	Sample Career Specialties – Careers from the Targeted Occupations List are in bold.							
	Biomedical Equipment Maintenance and Repair Technician; Bioinformatics technicianClerk		Biological Illustration; biomedical technician; laboratory assistant			Molecular Biologist; Analytical Chemist; Biomedical Engineer; Ecologist; Geologist; Microbiology Cell Scientist; Plant Pathologist		
CREDIT	Articulation and CTE Dual Enrollment Opportunities							
	Secondary to Technical Center (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 included here)		
	Florida State College at Jacksonville		FSC at Jax.: Bio I, II, III at PVHS transfers as 4 crdts. Intro to Biotech Methods, Intro to Biotech, Princ. of Biology, and Human Biology UNF: Contemporary Ethics PHI2630- 3crdts http://www.sirstate.edu/workforce/careerpathways.html			University of Florida; Jacksonville University		
Career and Technical Student Association								
Florida HOSA-Future Health Professionals (FL-HOSA) HOSA: Future Health Professionals (National)								
Internship/Work Experience Recommendations								
Career Academy students may apply for summer internships after their junior year. Sample internships: veterinary clinic, Mayo Clinic,								
Program of Study Graduation Requirements: http://www.fdoe.org/workforce/perkins/pdf/POS-GradChecklist.pdf								