


Career Cluster: Science, Technology, Engineering, Math (STEM)				CTE Program: Industrial Biotechnology				
Career Cluster Pathway: Manufacturing				Eligible Recipient: Pinellas County Schools				
		16 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
 <p>PCS PINELLAS COUNTY SCHOOLS Career Technical & Adult Education</p>	ENGLISH 4 credits H – Honors AP – Advanced Placement	MATH 4 credits H – Honors AP – Advanced Placement	SCIENCE 3 credits, 2 with lab H – Honors AP – Advanced Placement	SOCIAL STUDIES 3 credits H – Honors AP – Advanced Placement	OTHER REQUIRED COURSES		CAREER AND TECHNICAL EDUCATION COURSES Major Area of Interest: Automotive Collision Repair & Refinishing	RECOMMENDED ELECTIVES (ALIGNED WITH COMMUNITY COLLEGE & STATE UNIVERSITY SYSTEM PROGRAMS)
					FINE ARTS (1 cdt)			
					PHYSICAL EDUCATION (1 cdt)			
HIGH SCHOOL	Career Cluster of interest identified by students enrolled in required middle school career education course that includes interest assessment and career exploration through CHOICES and ePersonal Education Planner through FACTS.org.							
	9	English 1 or H	Algebra 1 or H, Geometry or H	Earth/Space Science or Biology 1 or H	American Government or H	Fine Arts Elective	Biotechnology 1	Foreign Language
	10	English 2 or H	Geometry or H, Algebra 2 or H	Biology 1 or H; or Chemistry, H or AP	World History, H or AP	H.O.P.E	Biotechnology 2	Foreign Language
	11	English 3 or H	3 rd Math Credit	3 rd Science Credit	American History, H or AP	Elective	Biotechnology 3	Elective
	12	English 4, H, or AP	4 th Math Credit	4 th Science Credit	Economics or H	Elective	Elective	Elective
	Dual enrollment courses may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements - see the Articulation Coordinating Committee's Dual Enrollment Equivalency List and the Bright Futures Comprehensive Course Table.							
POSTSECONDARY	Secondary career and technical education programs may lead to industry recognized certificates, occupational opportunities or postsecondary education options. 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)	
						Biotechnology Pharmacology		
CAREER	Sample Career Specialties (The Targeted Occupations List may be used to identify appropriate careers.)							
	Research Technician Medical Researcher			Scientist			Biotechnology Engineer Pharmaceuticals Physician	
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 may be included here)	
*Possible Industry Certifications (Students):								
Secondary:	n/a							
Postsecondary:	n/a							