


Career Cluster: Health Science					CTE Program: Agriculture Biotechnology 8003100			
Career Cluster Pathway: Biotechnology Research Career Path					Industry Certification: Ag Biotechnology Certification FLFBR002 CERHB001 Biotechnical Assistant			
		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 flchoices.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 or higher	Algebra 1 or higher	Earth Space Science or Agriscience Foundations	Elective: Intro to Information Tech (on-line)	Physical Education (1credit) (Not required for ACCEL Program)	Agriscience Foundations	
	10 th	English 2 or higher	Geometry or higher	Biology	World History	Practical Arts or Fine Arts course (1 credit)	Agriculture Biotechnology 2	
	11 th	English 3 or higher	Algebra II or higher	Chemistry	American History	Elective	Agriculture Biotechnology 3	Other elective course appropriate for student's career and education plan.
	12 th	English 4 or higher	Pre-Calculus or Higher	Elective	American Gov't & Economics	Elective or Dual Enrollment	Animal or Plant Biotechnology	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 CENTER PROGRAM(S)		COMMUNITY or STATE COLLEGE PROGRAM(S)				UNIVERSITY PROGRAM(S)	
	NONE		Santa Fe College: <i>Biotechnology Laboratory Technology A.S. 3620</i> <i>Clinical Laboratory Science B.A.S.</i>				UF - BS Biology, Biotechnology, Microbiology, Biochemistry, Botany, Biochemistry and Cell Science	
CAREER	Sample Career Specialties (The Targeted Occupations List may be used to identify appropriate careers.)							
			Technician, Biotechnology Research, Biological Technician, Cell Culture Technician, Biotechnology Manufacturing Technician				Medical Technologist, Molecular Biologist, Bacteriologist, Research Assistant	

CREDIT	Articulation and CTE Dual Enrollment Opportunities		
	Secondary to Technical Center (PSAV)	Secondary to College Credit Certificate or Degree (Minimum # of clock or credit hours awarded) See below	PSAV/PSV to AAS or AS/BS/BAS
Career and Technical Student Association: FFA			
Internship/Work Experience Recommendations: Local research facilities, quality control testing laboratories, genetics laboratories, and medical laboratories			
Agriculture Biotechnology High School to College Career Pathway Program of Study Plan			
High School Course(s)	SFC Course(s)	College Credits	Appropriate Dual Enrollment Course(s)
8106810 Ag Foundations 8106850 Ag Biotechnology 2 8106860 Ag Biotechnology 3	BSC 1421 Intro to Biotechnology BSC 1421L Intro to Biotechnology Lab	3 1	MAC 1105 College Algebra - 3 credits
2003340 Chemistry I Or 2003350 Chemistry I Honors	CHM 1030 Elements of Chemistry I CHM 1030L Elements of Chemistry I Lab	3 1	ENC 1101 Freshman Comp -- 3 Credits
			Industry Certification Opportunities: CERHB001 Biotechnician Assistant