


Career Cluster: Science, Technology, Engineering & Mathematics					Secondary CTE Program: Technology Education			
Career Cluster Pathway: Pathways to Engineering (Program # 9400300)					Eligible Recipient: All Students			
	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		CAREER AND TECHNICAL EDUCATION COURSES Major Area of Interest:	RECOMMENDED ELECTIVES (Aligned with State University System Admissions)
					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 I	Algebra or higher	Earth & Space Science or Biology	World History	9th Grade Transition	Introduction to Engineering Design 860055001	
	10	English II	Geometry or higher	Biology or Chemistry	Physical Education	Foreign Language or Other Elective	Principles of Engineering 860052001	
	11	English III	Algebra II or higher	Chemistry or Physics or Physical Science	American History	Foreign Language or Other Elective	Engineering Design & Development 860065001	
	12	English IV	Pre-calculus or Other Mathematics Course	Science Elective or Other Elective	American Government/Economics	Fine Arts	Civil Engineering & Architecture 860059001	
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) Engineering Technology Miami Lakes Educational Center Robert Morgan Educational Center		COMMUNITY COLLEGE PROGRAM(S) Miami Dade College Recommended Associate of Science (AS) Degrees Civil Engineering Technology			UNIVERSITY PROGRAM(S) UNIVERSITY PROGRAMS GO TO: www.facts.org to find all Florida university programs STEP 1: Click on "Finding a College or Program" STEP 2: Click on "Find a Degree Program" STEP 3: Complete a search by selecting Institution Type, and specifying the Program Area and Degree Level.		
CAREER	SAMPLE CAREER SPECIALTIES (The Targeted Occupations List may be used to identify appropriate careers.)							
							Engineer	
CREDIT	ARTICULATION AND CTE DUAL ENROLLMENT OPPORTUNITIES							
	Secondary to Technical Center (PSAV)		Secondary to College Credit Certificate or Degree			PSAV/PSV to AAS or AS to BS or BAS		
	NOT APPLICABLE		Dual Enrollment Recommendations ENC 1101 English Composition I MAC 1105 College Algebra EGN 2033 Civilization and Engineering 1 MDC Articulated Courses with Civil Engineering (AS) EGS 1001C Introduction to Engineering ETD 1340 Computer Aided Drawing and Design			NOT APPLICABLE		
*Possible Industry Certifications (Students):								
Secondary:	Autodesk Certified User – AutoCAD, Autodesk Certified Associate – AutoCAD, Autodesk Certified Associate Inventor, Autodesk Certified Associate AutoCAD Civil 3D							
Postsecondary:								