


Career Cluster: Engineering and Technology Education		STEM		CTE Program: Stellar Academy of Engineering – Allen D. Nease High School Engineering Pathways-9400300				
Career Cluster Pathway: Engineering and Technology		Industry Certification: Autodesk User-AutoCAD (ADESK002), Autodesk User-Revit (ADESK025)						
 <p>STELLAR ACADEMY OF ENGINEERING AT NEASE HIGH SCHOOL</p>	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 or English 1 Honors	Algebra I or Geometry	Physical Science or Biology	Teen Leadership/World Geography, World History or AP Human Geography	HOPE – Health Opportunities through Physical Education	Introduction to Engineering Design-8600550	Elective
	10th	English 2 or English 2 Honors	Geometry or Algebra II	Biology	World History Honors	Fine or Practical Arts	Principles of Engineering-8600520	Elective
	11th	English 3 or English 3 Honors	Algebra II or Pre-Calculus	Chemistry	American History or American History Honors or APUSH	Elective or World Language	Civil Engineering & Architecture-8600590	Elective
	12th	English 4 or English 4 CP, Comp 1/2, or AP Eng. Literature	Pre-Calculus or AP Calculus	Marine Science, Earth/Space, or Physics	American Government .5 + Economics .5 or AP Economics/Government	Elective or World Language	Engineering Design & Development-8600650	Elective
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)		
	FL State College at Jacksonville: Drafting – 10 month certificate program Seminole State College, Sanford: Computer-Aided Design Technical Certificate – 10 month program		FL State College at Jacksonville: AutoCAD Foundations T.C., Drafting T.C. Valencia College, Orlando: Civil/Surveying Engineering Technology Associate A.S. Daytona State College, Daytona Beach: AutoCAD Foundations A.S.			University of N. FL, Jacksonville: Engineering – Civil, Electrical, Mechanical B.S. University of FL, Gainesville: Engineering – Civil, Environmental, Mechanical, Architectural B.S. University of Central FL, Orlando: Engineering -- Civil, Environmental, Electrical, Mechanical, Aerospace B.S.		
CAREER	Sample Career Specialties – Careers from the Targeted Occupations List are in bold.							
	Draftsman, Carpenter; Electrician; Heating and Air Conditioning, Mason		Architectural Engineering Assistant, AutoCAD Technician, Draftsman			Engineer -Architecture, Civil, Structural, Transportation, Water Resources, Construction, Mechanical, Environmental, Geological, Surveyor, Draftsman		
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)		
	No Articulation Agreement No CTE Dual Enrollment		FSCJ: 3 credits immediately awarded upon enrollment for AutoCAD certification – Architectural Design & Construction Tech major, Course CGS2470, ETD 2395 (FSCJ value of \$343.56) No CTE Dual Enrollment			No Articulation Agreement No CTE Dual Enrollment		
Career and Technical Student Association								
FL – TSA - Technology Student Association								
Internship/Work Experience Recommendations								
Career Academy students may apply for internships at engineering firms after their junior year.								
Program of Study Graduation Requirements: http://www.fldoe.org/workforce/perkins/pdf/POS-GradChecklist.pdf								