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| Career Cluster: Engineering and Technology Education (STEM) | | | | | CTE Program: Secondary: Stellar Academy of Engineering – Engineering Pathways (9400300)Allen D. Nease High School, St. Johns County School District **Postsecondary: FL State College at Jacksonville**: Civil Engineering, (AS 1715020101), Architectural Design and Construction Technology, AS (AS-1604090100), Drafting and Design, (PSAV – C100200) | | | |
| Career Cluster Pathway: Engineering and Technology | | | | | Industry Certification: Secondary: Autodesk User-AutoCAD (ADESK002), Autodesk User-Revit (ADESK025), Autodesk User-Inventor (ADESK011), Autodesk User-Fusion 360 (ADESK032) **Postsecondary:**  Autodesk Cert. Professional – REVIT (ADESK025), Autodesk Certified Professional – AutoCAD (ADESK021) | | | |
| Stellar-Nease-Logo-4c.jpg | | 16 CORE CURRICULUM CREDITS | | | | | 8 ADDITIONAL CREDITS | |
| ENGLISH4 credits | MATH4 credits | SCIENCE3 credits, 2 with lab | SOCIAL STUDIES3 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 | * English 1 or English 1 Honors | | | | | | | |
| English 2 or English 2 Honors | English 1 or English 1 Honors | Algebra I (or Alg 1 Honors) or Geometry (or Geo 1 Honors) | Environmental Science or Biology (or Bio Honors) | World History (or Honors or AP) | HOPE – Health Opportunities through Physical Education | Introduction to Engineering Design-8600550  (Honors Credit) | Elective |
| English 3, English 3 Honors or AP Language | English 2 or English 2 Honors | Geometry or Algebra II (or Honors) | Biology, Chemistry, Physics, Anatomy (or Honors Level) | American Government & Writing for College Success | Elective or World Language | Principles of Engineering-8600520  (Honors Credit) | Elective |
| English 4 or English 4 Honors or AP Eng. Literature | English 3, English 3 Honors or AP Language | Algebra II, Probability & Statistics Honors, AP Pre-Calculus | Chemistry, Physics, Anatomy (or Honors Level) | U.S. History, U.S. History Honors or APUSH | Elective or World Language | Civil Engineering & Architecture-8600590 (Honors Credit) or Computer Integrated Manufacturing-8600560 (Honors Credit) | Elective |
| English 1 or English 1 Honors | English 4 or English 4 Honors or AP Eng. Literature | Math for College Algebra, AP Statistics, AP Pre-Calculus or AP Calculus | Marine Science, Earth/Space, or Physics, AP Physics, AP Biology, AP Chemistry | Economics & Personal Financial Literacy, AP Microeconomics | Elective or World Language | Engineering Design & Development-8600650  (Honors Credit) | 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**: Engineering Technology Support Specialist – 10 month certificate program  **Seminole State College, Sanford:** Computer-Aided Design Technical Certificate – 10 month program | | **FL State College at Jacksonville**: Engineering Technology (Advanced Manufacturing) A.S., Architectural Design and Construction Technology – A.S.  **Valencia College, Orlando:** Construction and Civil Engineering Technology Associate A.S., Engineering Technology A.S.  **Daytona State College, Daytona Beach:** Engineering Technology B.S., Engineering Technology Electrical Engineering Concentration B.S. | | | | **University of N. FL, Jacksonville: Engineering** – Civil, Electrical, Mechanical, Advanced Manufacturing B.S.  **University of FL, Gainesville: Engineering** – Civil, Environmental, Mechanical, Mechanical, Industrial, Architectural B.S.  **University of Central FL, Orlando:** Engineering -- Civil, Environmental, Electrical, Aerospace B.S. | |
| CAREER | **Sample Career Specialties – Careers from the Targeted Occupations List are in bold.** | | | | | | | |
| Draftsman | | 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 | | | | No Articulation Agreement  No CTE Dual Enrollment | |
| **Career and Technical Student Association** | | | | | | | | |
| FL – TSA - Technology Student Association  National Technical Honor Society | | | | | | | | |
| **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/academics/graduation-requirements> | | | | | | | | |