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| Career Cluster: *Agriculture, Food, and Natural Resources* | CTE Program: *Agricultural Machinery Mechanics* |
| Career Cluster Pathway: *Power, Structural & Technical Systems* | Industry Certification:  *NCCER Welding 1* |
| Logo for Florida Career Clusters | 16 CORE CURRICULUM CREDITS | 8 ADDITIONAL CREDITS |
| ENGLISH4 credits | MATH4 credits | SCIENCE3 credits, 2 with lab | SOCIAL STUDIES3 credits | OTHER REQUIRED COURSESFINE ARTS (1 credit) PHYSICAL EDUCATION (1 credit) | CAREER AND TECHNICAL EDUCATION COURSES | **RECOMMENDED ELECTIVES**(ALIGNED WITH COMMUNITY COLLEGE & STATE UNIVERSITY SYSTEM PROGRAMS) |
| HIGH SCHOOL | 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**
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| 9th | English I | Algebra 1, Algebra 1A, or Geometry | Biology I | None | Personal Fitness | Agri-Science Foundations | Research |
| 10th | English II | Algebra 1B or Geometry | Physical Science or Chemistry I | World History | PE/ Band / JROTC | Ag Mechanics II and Ag Mechanics III | Spanish 1 |
| 11th | English III | Algebra 2, Geometry, or Math for College Readiness | Science Elective | American History | PE / Band / JROTC | Ag Machinery Mechanics IV and Ag Machinery Mechanics V | Spanish 2 |
| 12th | English IV | Algebra 2, Math for College Readiness, or Pre-Calculus | Science Elective | American Government/ Economics | Fine Arts or Practical Arts | Ag Machinery Mechanics VI and Agribusiness Coop |  |
| 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)** |
| Universal Technical Institute | Indian River State College  | University of Central Florida, Florida Atlantic University, University of Florida, Florida State University, University of South Florida |
| CAREER | **Sample Career Specialties (The Targeted Occupations List may be used to identify appropriate careers.)** |
| Industrial Machine Mechanic, Small Engine Mechanic, Maintenance and Repair Workers, Ag Equipment Operator,  | Certified Welder, Diesel Mechanic | Agricultural/Mechanical 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/BS/BAS** |
|  | Indian River State College· AER 1020 Orientation to Vehicle Maintenance **3 credits**· DIM 1001 Introduction to Diesel Engines **4 credits***Although in Ag field, credits are issued in* *Automotive Service Technology*  |  |
| **Career and Technical Student Association** |
| ***FFA*** |
| **Internship/Work Experience Recommendations** |
| **, school or district accounting offices, banks, family tax account*****Agriscience Sales and Services OJT or Internship***  |
| **PrograPrm of Study** |

Program of Study Graduation Requirements 2013-2014: <http://www.fldoe.org/workforce/perkins/pdf/POS-GradChecklist.pdf>