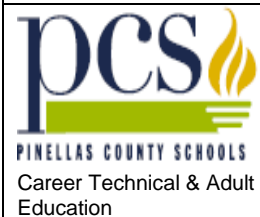


Career Cluster: STEM

CTE Program: Pathways to Engineering ((PLTW)

Career Cluster: Engineering

Eligible Recipient: Pinellas County Schools



16 CORE CURRICULUM CREDITS

8 ADDITIONAL CREDITS

ENGLISH
4 credits
H – Honors
AP – Advanced Placement

MATH
4 credits
H – Honors
AP – Advanced Placement

SCIENCE
3 credits, 2 with lab
H – Honors
AP – Advanced Placement

SOCIAL STUDIES
3 credits
H – Honors
AP – Advanced Placement

OTHER REQUIRED COURSES

FINE ARTS (1 cdt)

PHYSICAL EDUCATION (1 cdt)

CAREER AND TECHNICAL EDUCATION COURSES

RECOMMENDED ELECTIVES
(ALIGNED WITH COMMUNITY COLLEGE & STATE UNIVERSITY SYSTEM PROGRAMS)

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.

HIGH SCHOOL

9	English 1 or H	Algebra 1 or H, Geometry or H	Earth/Space Science or Biology 1 or H	American Government or H	Fine Arts Elective	Introduction to Engineering Design	Foreign Language
10	English 2 or H	Geometry or H, Algebra 2 or H	Biology 1 or H; or Chemistry, H or AP	World History, H or AP	H.O.P.E	Principles of Engineering	Foreign Language
11	English 3 or H	3 rd Math Credit	3 rd Science Credit	American History, H or AP	Digital Electronics	Computer Integrated Manufacturing	Civil Engineering and Architecture
12	English 4, H, or AP	4 th Math Credit	4 th Science Credit	Economics or H	Biotechnical Engineering	Engineering Design and Development	Aerospace Engineering

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)

COMMUNITY COLLEGE PROGRAM(S)

UNIVERSITY PROGRAM(S)

Machining

Engineering

Engineering

Sample Career Specialties (The Targeted Occupations List may be used to identify appropriate careers.)

CAREER

Machinist
CNC Operator

Computer Engineer
Industrial Engineer

Civil Engineer
Mechanical Engineer
Computer Engineer
Industrial Engineer

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)
MSSC001 Certification = 3 credit hours in Engineering Technology

PSAV/PSV to AAS or AS/BS/BAS
(Statewide and other local agreements may be included here)

***Possible Industry Certifications (Students):**

Secondary:

MSSC, AutoCad

Postsecondary: