



| CTE Program: <b>Machining Technology</b>   |   |   |   |   |
|--|---|---|---|---|
| Career Cluster: <b>Manufacturing</b>   |   |   |   |   |
| <b>**This document is intended for course planning. Course offerings may vary by school. Please contact your school's guidance department, program director, or assistant principal for site specific information.</b> |   |   |   |   |
|   | <b>Standard Diploma Requirements</b><br><b>14 Core Curriculum Credits</b>                                 |   |   |   |
|  | Grade 9   | Grade 10  | Grade 11  | Grade 12  |
| <b>Pathways in HS English</b>  | <b>4 Credits in English</b>   | <b>AP - Advanced Placement, DE - Dual Enrollment, EGP - English General Paper</b>   |   |   |
| <b>Advanced Scholar</b><br>(accelerating through MS & HS)  | English 2H  | AP LANG   | AP LIT  | AP ELECTIVE or DE   |
| <b>Scholar</b><br>(accelerating in GR 8/9, FAST PM3 Level 1 or 2 in GR 9)  | English 2H  | ENG 3H*   | AICE EGP, or DE, or AP LANG   | AICE EGP, or DE, or AP Lit  |
| <b>Merit</b><br>(on-grade level grades 8-10)   | English 1 (R/H)   | ENG 2 (R/H)   | AICE EGP, or ENG 3 (R/H)*   | DE ENG  |
| <b>Pathways in HS Mathematics</b>  | <b>4 Credits in Mathematics</b>   | <b>MCL - Math for College Liberal Arts, MDFL - Math for Data &amp; Fin Lit</b>      |   |   |
| <b>Advanced Scholar/Scholar</b>  | ALG 2H  | AP Math Courses, DE (College Algebra) or Math for College Algebra                   |   |   |
| <b>Scholar</b>   | GEO H   | ALG 2H  | AP Math Courses, MCL, MDFL, Math for College Algebra, Prob/Stats H, AP PreCalc    |   |
| <b>Merit</b>   | ALG 1/ALG 1A<br>(Refer to Placement and Support Recommendations)  | ALG 1 or GEO  | MCL, MDFL, Math for College Algebra, Prob/Stats H, AP PreCalc                     |   |
| <b>Pathways in HS Science</b>  | <b>3 Credits in Science</b>   | <b>AP - Advanced Placement, DE - Dual Enrollment, EQ - Equally Rigorous Science</b> |   |   |
| <b>Advanced Scholar/Scholar</b>  | BIO 1H  | Chemistry 1H  | AP, DE, or AICE Science Courses   |   |
| <b>Scholar</b>   | BIO 1H  | Chemistry 1 (R/H)   | AP, DE, AICE Science Courses, or other EQ Science Courses                         |   |
| <b>Merit</b>   | Environmental Science   | BIO 1H  | Other EQ HS Science Courses or CTE Courses that Substitute for EQ Science Courses |   |
| <b>Pathways in HS Social Studies</b>   | <b>3 Credits in Social Studies</b>  | <b>2023 Freshmen must complete a Personal Finance* course for graduation</b>        |   |   |
| <b>Advanced Scholar/Scholar</b>  | AP Human Geo, AP World History, AP European History, AP US Gov't., or Personal Finance & Money Management | AP World History or AP European History, or Personal Finance and Money Management H | AP US History, and/or Personal Finance & Money Management H                       | AP Gov't. & AP Econ. (Macro or Micro), or Personal Finance and Money Management H |
| <b>Scholar/Merit</b>   | AP Human Geo, World History (AP/H), US Gov't. (AP or H), or Personal Finance & Money Management H         | World History (AP/H), or Personal Finance & Money Management H                      | US History (AP/H), or Personal Finance & Money Management H                       | US Gov't H & Econ. H (or AP versions), or Personal Finance & Money Management H   |
| <b>Required Courses: Algebra 1 or Geometry, Biology, World History, US History, Personal Finance, US Gov't, &amp; Economics</b>  |   |   |   |   |
| <b>7.5 Elective Credits</b>  |   |   |   |   |
| <b>Career &amp; Technical Education Course:</b>  | Machining Technology 1  | Machining Technology 2  | Machining Technology 3  | Machining Technology 4  |
| <b>Recommended:</b>  | Foreign Language  | Foreign Language  | DE - Machining Technologies   |   |
| <b>2.5 Other Required Courses</b>  |   |   |   |   |
| 1 Credit: Physical Education (H.O.P.E.)  |   |   |   |   |
| 1 Credit: Fine & Performing Arts, Speech & Debate, any CTE course, or Practical Arts   |   |   |   |   |
| .5 Credit: Personal Finance Requirement - *CTE offers Personal Financial Literacy  |   |   |   |   |
| Dual enrollment courses may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational and CAPE Scholars Award requirements.   |   |   |   |   |
| <b>Related Post-Secondary Opportunities</b>  |   |   |   |   |
| <b>Post-Secondary Opportunities</b>  | <b>Career Certificate Programs</b>  |   | <b>Degree Programs</b>  |   |
|  | <i>Pinellas Technical College - Clock Hour</i>  |   | Associate of Science (AS)   |   |
|  | Machining Technologies  |   | Industrial Management Technology  |   |
|  |   |   | Manufacturing Technology  |   |
|  |   | <b>College Credit Certificate</b>   |   |   |
|  |   | <60 College Credits   |   |   |
|  |   | Industrial Operations Specialist  |   |   |
|  |   | CNC Machinist/Fabricator  |   |   |
|  |   |   |   |   |
|   |   |   |   |   |