


CTE Program: **Applied Engineering Technology**

Career Cluster: **Engineering & Technology Education**

|  Career Technical Education | Standard Diploma Requirements 14 Core Curriculum Credits | | | |
|--|---|---|--|----------------------------------|
| | Grade 9 | Grade 10 | Grade 11 | Grade 12 |
| English | 4 Credits in English | <i>AP - Advanced Placement, DE - Dual Enrollment, EGP - English General Paper</i> | | |
| Advanced Scholar | English 2 Honors | AP Lang | AP Lit | AP Elective or DE |
| Scholar | English 2 Honors | English 3 Honors | AICE EGP, DE, or AP Lang | AICE EGP, DE, or AP Lit |
| Merit | English 1 (R or H) | English 2 (R or H) | AICE EGP | DE or Eng 4 (R or H) |
| Mathematics | 4 Credits in Mathematics | <i>MCL - Math for College Liberal Arts, MDFL - Math for Data & Fin Lit</i> | | |
| Advanced Scholar | Algebra 2 Honors | AP Math, DE (College Algebra), or Math for College Algebra (MCA) | | |
| Scholar | Geometry Honors | Algebra 2 Honors | AP Math, MCL, MDFL, MCA, Prob/Stats (R or H) | |
| Merit | Algebra 1 or Algebra 1A | Algebra 1 or Geometry | ALG 2, MCL, MDFL, MCA, Prob/Stats (R or H) | |
| Science | 3 Credits in Science | <i>AP - Advanced Placement, DE - Dual Enrollment, EQ - Equally Rigorous Science</i> | | |
| Advanced Scholar | Biology 1 Honors | Chemistry 1 Honors | AP Science, DE, or AICE Science Courses | |
| Scholar | Biology 1 Honors | Chemistry 1 (R or H) | AP Science, DE, AICE, or other EQ Science Course | |
| Merit | Environmental or Earth Space Science | Biology 1 Honors | Other EQ HS Science Courses or CTE Courses that Substitute for EQ Science Course | |
| Social Studies | 3 Credits in Social Studies | <i>2023 Freshmen must complete a Personal Finance* course for graduation</i> | | |
| Advanced Scholar | Personal Finance & Money Management | AP World History or AP European History | AP US History | AP Gov't & AP Econ |
| Scholar/Merit | AP Human Geo, or Personal Finance & Money Management | World History (AP or H), or Personal Finance & Money Management | US History (H) | US Gov't & Econ. (H) |
| Required Courses: Algebra 1 or Geometry, Biology, World History, US History, Personal Finance, US Gov't, & Economics | | | | |
| 7.5 Elective Credits | | | | |
| Career & Technical Education Course: | Applied Engineering Technology 1 | Applied Engineering Technology 2 | Applied Engineering Technology 3 | Advanced Technology Applications |
| Recommended: | Foreign Language | Foreign Language | DE - Computer-Aided Drawing & Modeling | |
| 2.5 Other Required Courses | | | | |
| <i>1 Credit: Physical Education (H.O.P.E.)</i> | | | | |
| <i>1 Credit: Fine & Performing Arts, Speech & Debate, any CTE course, or Practical Arts</i> | | | | |
| <i>.5 Credit: Personal Finance Requirement - *CTE offers Personal Financial Literacy</i> | | | | |
| **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. | | | | |
| Dual enrollment courses may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational and CAPE Scholars Award requirements. | | | | |

Related Post-Secondary Opportunities

| Post-Secondary Opportunities | Career Certificate Programs | College Credit Certificate | Degree Programs |
|------------------------------|---------------------------------------|----------------------------|---------------------------|
| | <i>Technical College - Clock Hour</i> | <60 College Credits | Associate of Science (AS) |
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