

The following courses may be offered for credit in grades 9-12.

**Academic Program**

- 1. Academic Intervention**
  - 1.1 Special Education Intervention
  - 1.2 Tier II English Language Arts
  - 1.3 Tier III English Language Arts
  - 1.4 Tier II Mathematics Intervention
  - 1.5 Tier III Mathematics Intervention
  
- 2. Automobile Driver Education**
  
- 3. Computer Technology**
  - 3.1 Computer Literacy
  - 3.2 BASIC
  - 3.3 Pascal
  - 3.4 FORTRAN
  - 3.5 C
  - 3.6 C++
  - 3.7 JAVA
  - 3.8 Advanced Placement Computer Science A
  - 3.9 Advanced Placement Computer Science Principles
  - 3.10 Computer Applications
  - 3.11 Adventures in Computing
  
- 4. Visual and Performing Arts**
  - 4.1 General Music
  - 4.2 Instrumental Music I, II, III, IV
  - 4.3 Vocal/Choral Music I, II, III, IV
  - 4.4 Class Piano I, II, III, IV
  - 4.5 Music History
  - 4.6 Music Theory
  - 4.7 Visual Art I, II, III, IV
  - 4.8 Visual Art History
  - 4.9 Dance I, II, III, IV
  - 4.10 Theater I, II, III, IV
  - 4.11 Advanced Placement Music Theory
  - 4.12 Advanced Placement Art History
  - 4.13 Advanced Placement Studio Art: 2-D Design
  - 4.14 Advanced Placement Studio Art: 3-D Design
  - 4.15 Advanced Placement Studio Art: Drawing
  
- 5. General Education Exploratory**
  - 5.1 Preparing for the ACT, Postsecondary, and Career
  
- 6. Health, Physical Education, and Wellness**
  - 6.1 Physical Education
  - 6.2 Health Education

6.3 Wellness

**7. Language Arts**

- 7.1 English Language Arts I, II, III, IV
- 7.2 Advanced Placement English Language & Composition
- 7.3 Advanced Placement English Literature & Composition
- 7.4 International Baccalaureate English III
- 7.5 International Baccalaureate English III, HL
- 7.6 International Baccalaureate English IV, HL
- 7.7 International Baccalaureate English Literature SL/ HL
- 7.8 International Baccalaureate Theory of Knowledge I
- 7.9 English as a Second Language
- 7.10 Speech
- 7.11 Journalism
- 7.12 Competency English
- 7.13 Creative Writing

**8. Mathematics**

- 8.1 Foundations I, II, Algebra IA
- 8.2 Algebra I
- 8.3 Geometry
- 8.4 Algebra II
- 8.5 Advanced Algebra and Trigonometry
- 8.6 Statistics
- 8.7 Discrete Mathematics with Statistics & Probability
- 8.8 Precalculus
- 8.9 Calculus
- 8.10 Advanced Placement Statistics
- 8.11 Advanced Placement Calculus AB
- 8.12 Advanced Placement Calculus BC
- 8.13 Bridge Math Course
- 8.14 Senior Finite Math

**9. JROTC Military Science**

**10. Science**

- 10.1 Physical Science
- 10.2 Biology I, II
- 10.3 Biology I A, B
- 10.4 Human Anatomy and Physiology
- 10.5 Chemistry I, II
- 10.6 Chemistry I A, B
- 10.7 Earth Science
- 10.8 Geology
- 10.9 Environmental Science
- 10.10 Ecology
- 10.11 Physics
- 10.12 Physics I A, B
- 10.13 Physical World Concepts
- 10.14 Scientific Research

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- 10.15 Advanced Placement Biology
- 10.16 Advanced Placement Chemistry
- 10.17 Advanced Placement Environmental Science
- 10.18 Advanced Placement Physics I
- 10.19 Advanced Placement Physics II
- 10.20 Advanced Placement Physics C: Electricity & Magnetism
- 10.21 Advanced Placement Physics C: Mechanics

### 11. Social Studies

- 11.1 United States History
- 11.2 Economics
- 11.3 United States Government
- 11.4 Psychology
- 11.5 Sociology
- 11.6 World Geography
- 11.7 World History and Geography
- 11.8 Contemporary Issues
- 11.9 Ancient History
- 11.10 African-American History
- 11.11 Statewide Dual Credit: Introduction to Sociology
- 11.12 Advanced Placement United States History
- 11.13 Advanced Placement European History
- 11.14 Advanced Placement World History
- 11.15 Advanced Placement Macroeconomics
- 11.16 Advanced Placement Microeconomics
- 11.17 Advanced Placement U.S. Government & Politics
- 11.18 Advanced Placement Comparative Government & Politics
- 11.19 Advanced Placement Human Geography
- 11.20 Advanced Placement Psychology
- 11.21 International Baccalaureate, History of the Americas HL
- 11.22 Personal Finance

### 12. Service Learning

- 12.1 Service-Learning

### Career and Technical Education.

CTE courses are listed below by career cluster. All students who enter high school must earn three (3) credits in an elective focus. If CTE is used to satisfy this requirement, students are required to take three (3) credits in a Department of Education approved program of study or career cluster. All courses are aligned to a primary career cluster. Some programs of study may include courses from multiple career clusters, early postsecondary, and/or academic programs.

In addition to the courses listed below, there are also course codes available for postsecondary dual credit and dual enrollment courses in all CTE programs of study. Please see the department of education's website for a full list of available courses codes.

### 13. Advanced Manufacturing

- 13.1 Advanced Electromechanical Technology

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- 13.2 Digital Electronics
- 13.3 Introduction to Electromechanical
- 13.4 Manufacturing Practicum
- 13.5 Mechatronics I
- 13.6 Mechatronics II
- 13.7 Principles of Machining I
- 13.8 Principles of Machining II
- 13.9 Principles of Manufacturing
- 13.10 Welding I
- 13.11 Welding II

### 14. Agriculture, Food, & Natural Resources

- 14.1 Advanced Food Science
- 14.2 Agricultural and Biosystems Engineering
- 14.3 Agricultural Business and Finance
- 14.4 Agricultural Power and Equipment
- 14.5 Agriscience
- 14.6 Applied Environmental Science
- 14.7 Food Science and Safety
- 14.8 Greenhouse Management
- 14.9 Introduction to Agricultural Sciences
- 14.10 Landscaping and Turf Science
- 14.11 Large Animal Science
- 14.12 Natural Resources Management
- 14.13 Organizational Leadership and Communications
- 14.14 Plant and Soil Science
- 14.15 Principles of Agribusiness
- 14.16 Principles of Agricultural Mechanics
- 14.17 Principles of Food Production
- 14.18 Principles of Plant Science and Hydroculture
- 14.19 Small Animal Science
- 14.20 Statewide Dual Credit: Introduction to Agriculture Business
- 14.21 Statewide Dual Credit: Introduction to Plant Science
- 14.22 Supervised Agricultural Experience (SAE)
- 14.23 Veterinary Science

### 15. Architecture & Construction

- 15.1 Architectural & Engineering Design I
- 15.2 Architectural & Engineering Design II
- 15.3 Architectural & Engineering Design III
- 15.4 Advanced Interior Design
- 15.5 Commercial Interior Design
- 15.6 Construction Practicum
- 15.7 Electrical Systems
- 15.8 Foundations of Interior Design
- 15.9 Fundamentals of Construction
- 15.10 HVAC
- 15.11 Mechanical, Electrical, & Plumbing Systems (MEP)
- 15.12 Plumbing Systems
- 15.13 Residential & Commercial Construction I

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- 14.14 Residential & Commercial Construction II
- 14.15 Residential Interior Design
- 14.16 Structural Systems I
- 14.17 Structural Systems II

### 16. Arts, Audio/Visual Technology, & Communications

- 16.1 Advanced Fashion Design
- 16.2 Applied Arts Practicum
- 16.3 A/V Production I
- 16.4 A/V Production II
- 16.5 A/V Production III
- 16.6 Digital Arts & Design I
- 16.7 Digital Arts & Design II
- 16.8 Digital Arts & Design III
- 16.9 Fashion Design
- 16.10 Foundations of Fashion Design\*

### 17. Business Management & Administration

- 17.1 Advanced Computer Applications
- 17.2 American Business Legal Systems
- 17.3 Business & Entrepreneurship Practicum
- 17.4 Business Communications
- 17.5 Business Economics
- 17.6 Business Management
- 17.7 Computer Applications
- 17.8 Introduction to Business & Marketing
- 17.9 Personal Finance
- 17.10 Health Information Technology
- 17.11 Health Services Administration Practicum
- 17.12 Human Resources Management
- 17.13 Human Resources Management Practicum

### 18. Education & Training

- 18.1 Early Childhood Education Careers I
- 18.2 Early Childhood Education Careers II
- 18.3 Early Childhood Education Careers III
- 18.4 Early Childhood Education Careers IV
- 18.5 Educational Therapy and Support I
- 18.6 Educational Therapy and Support II
- 18.7 Educational Therapy and Support III
- 18.8 Educational Therapy and Support Practicum
- 18.9 Fundamentals of Education
- 18.10 Teaching as a Profession I
- 18.11 Teaching as a Profession II
- 18.12 Teaching as a Profession III

### 19. Finance

- 19.1 Accounting I
- 19.2 Accounting II
- 19.3 Banking and Finance

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19.4 Financial Planning

**20. Government & Public Administration**

20.1 Principles of Public Service

20.2 Public Law and Budgeting

20.3 Public Management and Administration

**21. Health Science**

21.1 Anatomy and Physiology

21.2 Behavioral and Community Health

21.3 Cardiovascular Services

21.4 Clinical Internship

21.5 Dental Science

21.6 Diagnostic Medicine

21.7 Emergency Medical Services

21.8 Emergency Medical Services Practicum

21.9 Exercise Science

21.10 Global Health and Epidemiology

21.11 Introduction to Health Science

21.12 Health Science Education

21.13 Medical Terminology

21.14 Medical Therapeutics

21.15 Nursing Education

21.16 Pharmacological Sciences

21.17 Public Health Practicum

21.18 Rehabilitation Careers

**22. Hospitality & Tourism**

22.1 Culinary Arts I

22.2 Culinary Arts II

22.3 Culinary Arts III

22.4 Culinary Arts IV

22.5 Event Planning & Management

22.6 Hospitality Management

22.7 Hospitality Marketing

22.8 Hospitality & Tourism Exploration

**23. Human Services**

23.1 Barbering I

23.2 Barbering II

23.3 Barbering III

23.4 Cosmetology I

23.5 Cosmetology II

23.6 Cosmetology III

23.7 Cosmetology IV

23.8 Family Studies

23.9 Introduction to Human Studies

23.10 Introduction to Social Health

23.11 Human Services Practicum

23.12 Lifespan Development

23.13 Nutrition Across the Lifespan

23.14 Nutrition Science and Diet Therapy

**24. Information Technology**

- 24.1 Cabling and Internetworking
- 24.2 Coding I
- 24.3 Coding II
- 24.4 Coding Practicum
- 24.5 Computer Science Foundations
- 24.6 Computer Systems
- 24.7 Cybersecurity I
- 24.8 Cybersecurity II
- 24.9 Cybersecurity Practicum
- 24.10 IT Clinical Internship
- 24.11 Mobile App Development
- 24.12 Networking
- 24.13 Web Design Foundations
- 24.14 Web Site Development
- 24.15 Web Design Practicum

**25. Law, Public Safety, Corrections, & Security**

- 25.1 Court Systems and Practices
- 25.2 Criminal Justice I
- 25.3 Criminal Justice II
- 25.4 Criminal Justice III: Investigations
- 25.5 Emergency Preparedness
- 25.6 Fire Prevention
- 25.7 Fire Science I
- 25.8 Fire Science II
- 25.9 Principles of Fire and Emergency Services
- 25.10 Principles of Law, Corrections, and Security

**26. Marketing**

- 26.1 Advertising and Public Relations
- 26.2 Entrepreneurship
- 26.3 Marketing & Management I—Principles
- 26.4 Marketing & Management II—Advanced Strategies
- 26.5 Retail Operations\*
- 26.6 Virtual Enterprise International

**27. Science, Technology, Engineering, & Mathematics (STEM)**

- 27.1 Advanced Design Applications (EBD)
- 27.2 Advanced Technological Applications (EBD)
- 27.3 Aerospace Engineering (PLTW)
- 27.4 Automation and Robotics (PLTW)
- 27.5 Biotechnical Engineering (PLTW)
- 27.6 Civil Engineering and Architecture (PLTW)
- 27.7 Computer Integrated Manufacturing (PLTW)
- 27.8 Design and Modeling (PLTW)
- 27.9 Digital Electronics (PLTW)
- 27.10 Energy and the Environment (PLTW)

- 27.11 Engineering Design (EBD)
- 27.12 Engineering Design and Development (PLTW)
- 27.13 Engineering Design I
- 27.14 Engineering Design II
- 27.15 Engineering Practicum
- 27.16 Exploring Technology (EBD)
- 27.17 Flight and Space (PLTW)
- 27.18 Foundations of Technology (EBD)
- 27.19 Green Architecture (PLTW)
- 27.20 Introduction to Engineering Design (PLTW)
- 27.21 Introduction to Geographical Information Systems
- 27.22 Inventions and Innovations (EBD)
- 27.23 Magic of Electrons (PLTW)
- 27.24 Medical Detectives (PLTW)
- 27.25 Principles of Engineering (PLTW)
- 27.26 Principles of Engineering and Technology
- 27.27 Principles of Technology I
- 27.28 Principles of Technology II
- 27.29 Robotics and Automated Systems
- 27.30 Science and Technology (PLTW)
- 27.31 STEM Designers
- 27.32 STEM Explorers
- 27.33 STEM Innovators
- 27.34 STEM I: Foundation
- 27.35 STEM II: Applications
- 27.36 STEM III: STEM in Context
- 27.37 STEM IV: STEM Practicum
- 27.38 Technological Design (EBD)
- 27.39 Technological Systems (EBD)

EBD signifies a course is part of the “Engineering by Design” curriculum package. PLTW signifies a course is part of the “Project Lead the Way” curriculum package. These STEM programs may require additional equipment and certifications to operate.

**28. Transportation, Distribution, & Logistics**

- 28.1 Aviation I: Principles of Flight
- 28.2 Aviation II: Advanced Flight
- 28.3 Collision Repair: Damage Analysis, Estimating, and Customer Service
- 28.4 Collision Repair: Non-Structural
- 28.5 Collision Repair: Painting and Refinishing
- 28.6 Collision Repair: Structural
- 28.7 Distribution & Logistics I
- 28.8 Distribution & Logistics II: Management
- 28.9 Foundations of Distribution & Logistics
- 28.10 Introduction to Aerospace
- 28.11 Introduction to Collision Repair
- 28.12 Maintenance and Light Repair I
- 28.13 Maintenance and Light Repair II
- 28.14 Maintenance and Light Repair III
- 28.15 Maintenance and Light Repair IV

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- 29. **Work-Based Learning**
  - 29.1 Work-Based Learning: Career Practicum
- 30. **General Electives**
  - 30.1 Career Exploration
  - 30.2 Jobs for Tennessee Graduates (JTG)

### Course Substitutions

The following course substitutions have been approved:

- (a) Advanced Placement English Language & Composition (7.2) and Advanced Placement English Literature & Composition (7.3) may substitute for English III or English IV.
- (b) The Physics requirement may be satisfied by completion of Principles of Technology I and II (27.27, 27.8).
- (c) The United States History and Geography requirement may be satisfied by completion of AP United States History (11.11); or IB History of the Americas HL (11.20).
- (d) The United States government requirement may be satisfied by completion of American Business Legal Systems (17.2); three (3) years of JROTC; AP Comparative Government & Politics (11.17); or AP U.S. Government & Politics (11.16).
- (e) The World History and Geography requirement may be satisfied by completion of AP Human Geography (11.18); AP European History (11.12); AP World History (11.13); or IB History of Europe.
- (f) The Economics requirement may be satisfied by completion of Entrepreneurship (26.2); Business Economics (17.5); Virtual Enterprise International (26.6); Marketing & Management I (26.3); or Retail Operations (26.5).
- (g) The Fine Arts requirement may be satisfied by completion of Foundations of Interior Design (15.8); Visual Art (4.7); Digital Arts & Design I (16.6); Web Design Foundations (24.9); or Foundations of Fashion Design (16.10).
- (h) The Personal Finance requirement may be satisfied by completion of Agriculture Business and Finance (14.3); or three (3) years of JROTC.
- (i) The wellness requirement may be satisfied by completion of Nutrition Across the Lifespan (23.17); or two (2) credits of JROTC.
- (j) For students that have met the ACT and/or SAT college readiness benchmarks in mathematics, the following courses may satisfy the requirement for being enrolled in a mathematics course for a fourth (4th), or more credit, option: Physics (10.11); Advanced Placement Physics I (10.18); Advanced Placement Physics II (10.19); Advanced Placement Physics C (10.20); or Advanced Placement Computer Science A (3.8).

- (k) Algebra I, Geometry, and Algebra II may be substituted (if available) with an equivalent course (same content standards) with different instructional methodology such as honors, CTE, or extended time (A/B courses). A courses are elective credit only. Math content credit is awarded upon completion of the B courses. Note: Integrated Math I, II, & III courses may substitute for Algebra I, Geometry, & Algebra II in its entirety.
- (l) Course work in English as a second language (7.28) may be used to satisfy the English language arts requirement for graduation, not to exceed two (2) units. Additional English as a second language course work may be awarded elective credits.
- (m) Lifespan Development (23.16) and Court Systems and Practices (25.1) may be counted as a Social Studies elective.
- (n) A student who completes an approved Supervised Agricultural Experience project consisting of at least 180 hours will be given one-half credit as an out-of- school experience.
- (o) The third (3<sup>rd</sup>) lab science requirement may be satisfied by completion of the following courses:
- i. Agriscience (14.5)
  - ii. Veterinary Science (14.23)
  - iii. Applied Environmental Science (14.6)
  - iv. Anatomy and Physiology (21.1)
  - v. Nutrition Science & Diet Therapy (23.18)
  - vi. Engineering Design I (27.13)
  - vii. Engineering Design II (27.14)
  - viii. STEM I (27.34)
  - ix. STEM II (27.35)
  - x. Principles of Engineering (PLTW) (27.25)