

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

Academic Program

- 1. Academic Intervention**
 - 1.1 Special Education 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, College, 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 Speech
- 7.5 Journalism
- 7.6 Competency English
- 7.7 Creative Writing
- 7.8 Latin I, II, III, IV
- 7.9 French I, II, III, IV
- 7.10 German I, II, III, IV
- 7.11 Spanish I, II, III, IV
- 7.12 Russian I, II, III, IV
- 7.13 Japanese I, II, III, IV
- 7.14 Chinese I, II, III, IV
- 7.15 Other Languages I, II, III, IV
- 7.16 Advanced Placement Chinese Language & Culture
- 7.17 Advanced Placement French Language & Culture
- 7.18 Advanced Placement German Language & Culture
- 7.19 Advanced Placement Italian Language & Culture
- 7.20 Advanced Placement Japanese Language & Culture
- 7.21 Advanced Placement Spanish Language & Culture
- 7.22 Advanced Placement Spanish Literature & Culture
- 7.23 Advanced Placement Latin
- 7.24 Advanced Placement Seminar
- 7.25 Advanced Placement Research
- 7.26 IB German A Language and Literature I SL/HL
- 7.27 IB German A Language and Literature II SL/HL
- 7.28 English as a Second Language
- 7.29 Tier III English Language Arts

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
- 8.15 Tier III Mathematics Intervention

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
- 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 Advanced Placement United States History
- 11.12 Advanced Placement European History
- 11.13 Advanced Placement World History
- 11.14 Advanced Placement Macroeconomics
- 11.15 Advanced Placement Microeconomics
- 11.16 Advanced Placement U.S. Government & Politics
- 11.17 Advanced Placement Comparative Government & Politics
- 11.18 Advanced Placement Human Geography
- 11.19 Advanced Placement Psychology
- 11.20 International Baccalaureate, History of the Americas HL
- 11.21 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
- 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
- 14.13. Residential & Commercial Construction I
- 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

18. Education & Training

- 18.1 Fundamentals of Education
- 18.2 School Counseling
- 18.3 Teaching as a Profession I
- 18.4 Teaching as a Profession II
- 18.5 Teaching as a Profession III

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3.205

19. Finance

- 19.1 Accounting I
- 19.2 Accounting II
- 19.3 Banking and Finance
- 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 Biomedical Applications
- 21.4 Cardiovascular Services
- 21.5 Clinical Internship
- 21.6 Dental Science
- 21.7 Diagnostic Medicine
- 21.8 Emergency Medical Services
- 21.9 Exercise Science
- 21.10 Forensic Science
- 21.11 Global Health and Epidemiology
- 21.12 Health Information Technology
- 21.13 Introduction to Health Science
- 21.14 Health Science Education
- 21.15 Medical Terminology
- 21.16 Medical Therapeutics
- 21.17 Nursing Education
- 21.18 Pharmacological Sciences
- 21.19 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 Chemistry of Cosmetology
- 23.5 Design Principles of Cosmetology
- 23.6 Early Childhood Education Careers I
- 23.7 Early Childhood Education Careers II

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3.205

- 23.8 Early Childhood Education Careers III
- 23.9 Early Childhood Education Careers IV
- 23.10 Family Studies
- 23.11 Introduction to Human Studies
- 23.12 Introduction to Social Health
- 23.13 Human Services Practicum
- 23.14 Lifespan Development*
- 23.15 Nutrition Across the Lifespan
- 23.16 Nutrition Science and Diet Therapy
- 23.17 Principles of Cosmetology

- 24. Information Technology**
 - 24.1 Cabling and Internetworking
 - 24.2 Computer Systems
 - 24.3 Information Technology Foundations
 - 24.4 Information Technology Clinical Internship
 - 24.5 Networking
 - 24.6 Coding I
 - 24.7 Coding II
 - 24.8 Coding Practicum
 - 24.9 Web Design Foundations
 - 24.10 Web Site Development
 - 24.11 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)

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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: 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: 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

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3.205

- 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
- 28.16 Transportation Core

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, 27.28).
- (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 (3rd) 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)