

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

* The following CTE courses satisfy one unit of fine art credit toward graduation:

 - Foundations of Interior Design
 - Digital Arts & Design I
 - Foundations of Fashion Design
 - Web Design Foundations
5. **General Education Exploratory**
 - 5.1. General Agriculture
 - 5.2. General Home Economics

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

* Advanced Placement English Language & Composition and Advanced Placement English Literature & Composition may substitute for English III or English IV.

** Course work in English as a Second Language may be used to satisfy the English Language requirement for graduation, not to exceed two units. Additional English as a Second Language course work may be awarded elective credits.

8. Mathematics

- 8.1. Mathematics Course Sequence *
 - 8.1.1. Foundations I, II, Algebra IA**
 - 8.1.2. Algebra I***
 - 8.1.3. Geometry***
 - 8.1.4. Algebra II***
 - 8.1.5. Advanced Algebra and Trigonometry

- 8.1.6. Statistics
- 8.1.7. Discrete Mathematics with Statistics & Probability
- 8.1.8. Precalculus
- 8.1.9. Calculus
- 8.1.10. Advanced Placement Statistics
- 8.1.11. Advanced Placement Calculus AB
- 8.1.12. Advanced Placement Calculus BC
- 8.1.13. Bridge Math Course****
- 8.1.14. Senior Finite Math****
- 8.1.15. Tier III Mathematics Intervention

* All students who enter high school beginning in 2009-10 must earn four credits in high school mathematics including Algebra I, Geometry, and Algebra II or the equivalent, and another mathematics course beyond Algebra I. Students must be enrolled in a mathematics course each school year.

For those students who 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 (or more) credit option: Physics, Advanced Placement Physics I, II, or C (Mechanics and/or Electricity & Magnetism), or Advanced Placement Computer Science A.

Students enrolled in high school prior to 2009-10 must earn at least three credits in high school mathematics which must include a course equivalent to Algebra I. Students who entered high school in 2005-06 will also be required to complete one of the following: Geometry, Technical Geometry, Algebra II, or Integrated Mathematics II as part of the three required units.

** Foundations I & II courses are elective credit only for students who enter high school beginning in 2009-10. Students who entered high school prior to 2009-10 may receive a maximum of one mathematics credit for a course in Foundations I, Foundations II, Technical Math (formerly known as Mathematics for Technology I) or Algebra IA. Students who enter high school prior to 2005-06 may receive a maximum of two credits for these courses. Note: Technical Math will no longer be offered effective 2009-10.

*** 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.

**** The Bridge Math course is designed for students who have not scored 19 or higher on the ACT by the beginning of the senior year. The Finite Senior Math course is designed for students who do not wish to take a more traditional STEM math course. These courses are currently under development with planned implementation to serve students graduating under the Ready Core requirements pending board approval.

9. JROTC Military Science*

- * Two credits of JROTC may be substituted for one credit of wellness required for graduation, provided that the local board of education has complied with the requirements of the State Board of Education.
- * Three credits of JROTC may be substituted for one-half unit of United States Government required for graduation.
- * Four credits of JROTC may be substituted for one-half unit of Personal Finance.

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

- * The following CTE courses satisfy one unit of science credit toward graduation:
 - Agriscience
 - Veterinary Science
 - Applied Environmental Science
 - Anatomy and Physiology
 - Biomedical Applications
 - Forensic Science
 - Nutrition Science & Diet Therapy
 - Engineering Design I and II
 - STEM I and II
 - Principles of Engineering (PLTW)

** The completion of Principles of Technology I and II fulfills the requirement for a credit in Physics.

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*****

* The following AP course will satisfy the graduation requirement for United States History and Geography: AP United States History.

The following IB courses will satisfy the graduation requirements for United States History and Geography, United States Government and Civics, and Economics: History of America I and History of America II (credits must be received in both courses).

** The economics requirement for graduation may be satisfied by business economics, international business/marketing, one credit in a core marketing education course if the teacher is highly qualified to teach economics, or out-of-school experiences through Junior Achievement.

*** The United States government requirement for graduation may be satisfied by American Business Legal Systems or by three years of JROTC. AP Comparative Government & Politics and AP U.S. Government & Politics would also satisfy the graduation requirement.

**** AP Psychology will satisfy the graduation requirement for Psychology

***** The following AP courses will satisfy the graduation requirement for World History and Geography: AP Human Geography, AP European History, or AP World History. The IB courses will satisfy the graduation requirements for World History and

Geography: History of Europe

***** The United States History and Geography and United States Government requirements may be satisfied by completion of the two-year sequence International Baccalaureate, History of the Americas HL.

***** The graduation requirement for Personal Finance may be satisfied by taking the following courses: three years of JROTC or Agriculture Business and Finance.

- 12. **Service Learning**
- 12.1. Service-Learning

Career and Technical Education.

CTE courses are listed below by career cluster. Beginning in 2009-10, all students who enter high school must earn three credits in an elective focus. If CTE is used to satisfy this requirement, students are required to take three 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*

- * Agriscience, Applied Environmental Science, and Veterinary Science satisfy one laboratory credit required for graduation.
- ** Introduction to Agricultural Sciences is a middle school course.
- *** 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.
- **** Agricultural Business and Finance satisfies the Personal Finance graduation requirement.

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

* Foundations of Interior Design satisfies one fine art credit in visual art.

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*

* Digital Arts & Design I and Foundations of Fashion Design satisfy one fine art credit in visual art.

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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

* American Business Legal Systems satisfies one-half credit in U.S. Government if the teacher is Highly Qualified to teach U.S. Government.

** Business Economics satisfies one-half credit in economics if the teacher is Highly Qualified to teach Economics.

*** Computer Applications may be used as a middle school course.

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

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

* Biomedical Applications, Forensic Science, and Anatomy & Physiology may be offered for one unit of science credit if the teacher is considered Highly Qualified.

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
- 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

* Introduction to Social Health is a middle school course.

** Nutrition Science and Diet Therapy satisfies a laboratory science credit required for graduation.

*** Lifespan Development can be counted as a Social Studies elective credit in place of Psychology.

**** Nutrition Across the Lifespan satisfies one credit in wellness required for graduation.

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 Programming and Logic I
- 24.7 Programming and Logic II
- 24.8 Programming & Software Development Practicum
- 24.9 Web Design Foundations
- 24.10 Web Site Development
- 24.11 Web Design Practicum

*Web Design Foundations satisfies one unit of fine art credit toward graduation.

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

* Court Systems and Practices can be used as a social studies elective credit.

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*

* Completion of one credit of a core marketing education course satisfies the economics requirement for graduation if the teacher is Highly Qualified to teach Economics.

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)

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- 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.

* Courses marked are designed for middle school

** Courses marked will satisfy a laboratory science credit required for graduation.

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

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- 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
- 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)