

<b>TENNESSEE STATE BOARD OF EDUCATION</b>	
<b>APPROVED HIGH SCHOOL COURSES</b>	<b>3.205</b>

### **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.

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

- 12.1. Advanced Food Science
- 12.2. Agricultural and Biosystems Engineering
- 12.3. Agricultural Business and Finance \*\*\*\*
- 12.4. Agricultural Power and Equipment
- 12.5. Agriscience\*
- 12.6. Applied Environmental Science\*
- 12.7. Food Science and Safety
- 12.8. Greenhouse Management
- 12.9. Introduction to Agricultural Sciences\*\*
- 12.10. Landscaping and Turf Science
- 12.11. Large Animal Science
- 12.12. Natural Resources Management
- 12.13. Organizational Leadership and Communications
- 12.14. Plant and Soil Science
- 12.15. Principles of Agribusiness
- 12.16. Principles of Agricultural Mechanics
- 12.17. Principles of Food Production
- 12.18. Principles of Plant Science and Hydroculture
- 12.19. Small Animal Science
- 12.20. Supervised Agricultural Experience (SAE) \*\*\*
- 12.21. Veterinary Science\*

\* Agriscience, Applied Environmental Science, and Veterinary Science satisfy one laboratory science 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.

#### 13. Architecture & Construction

- 13.1. Advanced Drafting and Design
- 13.2. Advanced Interior Design
- 13.3 Advanced Welding Applications

- 13.~~34~~. Basic Principles of Welding
- 13.~~45~~. Carpentry I
- 13.~~56~~. Carpentry II
- 13.7. Commercial Interior Design
- 13.~~68~~. Computer-Aided Drafting I
- 13.~~79~~. Computer-Aided Drafting II
- 13.~~810~~. Concrete I
- 13.~~911~~. Concrete II
- 13.~~1012~~. Construction Core
- 13.~~1113~~. Electrical I
- 13.~~1214~~. Electrical II
- 13.15 Foundations of Interior Design
- 13.~~163~~. Heating, Ventilation, Air Conditioning, and Refrigeration I
- 13.~~174~~. Heating, Ventilation, Air Conditioning, and Refrigeration II
- ~~13.15.~~ ~~Housing~~
- ~~13.16.~~ ~~Interior Design~~
- 13.~~187~~. Introduction to Welding
- 13.~~198~~. Masonry I
- 13.~~2019~~. Masonry II
- 13.~~210~~. Plumbing I
- 13.~~221~~. Plumbing II
- 13.23. Residential Interior Design

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

- 14.1. Advanced Fashion Design
- 14.2. Animation/~~and~~ Simulation and Motion Graphics
- 14.~~32~~. Audio Production I
- 14.~~43~~. Audio Production II
- 14.~~54~~. Audio Production III
- 14.~~65~~. Broadcasting I
- 14.~~76~~. Broadcasting II
- 14.~~87~~. Broadcasting III
- 14.~~98~~. Digital Arts & Design I
- 14.~~109~~. Digital Arts & Design II
- 14.~~110~~. Digital Arts & Design III
- 14.12 Fashion Design
- 14.~~131~~. ~~Fashion Design and Merchandising~~ Foundations of Fashion Design
- 14.~~142~~. Interactive Multimedia Presentations
- 14.15 Printing Graphics Technology I
- 14.~~163~~. Printing Graphics Technology II
- ~~14.14.~~ ~~Textiles and Apparel~~

#### 15. Business Management & Administration

- 15.1. Administrative Management
- 15.2. Advanced Computer Applications
- 15.3. American Business Legal Systems\*

- 15.4. Business Communications
- ~~15.5.~~ Business Economics\*\*
- ~~15.65.~~ Business Management
- ~~15.76.~~ Business Principles
- ~~15.87.~~ Computer Applications\*\*\*
- ~~15.8.~~ eBusiness Communications
- 15.9. 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.

#### 16. Education & Training

- 16.1. Fundamentals of Education
- 16.2. School Counseling
- 16.3. Teaching as a Profession I
- 16.4. Teaching as a Profession II
- 16.5. Teaching as a Profession III

#### 17. Finance

- 17.1. Accounting I
- 17.2. Accounting II
- 17.3. Banking and Finance
- 17.4. Financial Planning

#### 18. Government & Public Administration

- 18.1 Principles of Public Service
- 18.2 Public Law and Budgeting
- 18.3 Public Management and Administration

#### ~~18-19.~~ Health Science

- 19.1. Anatomy and Physiology\*
- 19.2. Behavioral and Community Health
- 19.3. Biomedical Applications\*
- 19.4. Cardiovascular Services
- ~~19.54.~~ Clinical Internship
- 19.6. Dental Science
- ~~19.75.~~ Diagnostic Medicine
- ~~19.86.~~ Emergency Medical Services
- ~~19.97.~~ Forensic Science\*
- 19.10 Global Health and Epidemiology
- ~~19.118.~~ Health Information Technology
- 19.12. Introduction to Health Science
- ~~19.139.~~ Health Science Education
- ~~19.140.~~ Medical Terminology

- 19.1~~5~~1. Medical Therapeutics
- 19.1~~6~~2. Nursing Education
- 19.17. Pharmacological Sciences
- 19.1~~8~~3. Rehabilitation Careers

\* ~~Biomedical Applications, Forensic Science, and Health Science~~ Anatomy & Physiology may be offered for one unit of science credit if the teacher is considered highly qualified.

#### ~~19-20.~~ Hospitality & Tourism

- 20.1. Culinary Arts I
- 20.2. Culinary Arts II
- 20.3. Culinary Arts III
- 20.4. Hospitality Management
- 20.5. Sports and Entertainment Marketing
- 20.6. Travel and Tourism Operations

#### ~~20-21.~~ Human Services

- 21.1. Barbering I
- 21.2. Barbering II
- 21.3. Barbering III
- 21.4. Chemistry of Cosmetology
- 21.5. Design Principles of Cosmetology
- 21.6. Early Childhood Education Careers I
- 21.7. Early Childhood Education Careers II
- 21.8. Early Childhood Education Careers III
- 21.9. Early Childhood Education Careers IV
- 21.10. Family Studies
- 21.11. Introduction to Human Studies
- 21.1~~2~~1. Introduction to Social Health\*
- 21.12. Human Services Practicum
- ~~21.13. Foundations of Social and Mental Health~~
- 21.14. Lifespan Development
- 21.15. Nutrition Across the Lifespan
- 21.16. Nutrition Science and Diet Therapy\*\*
- 21.17. 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.

#### ~~21-22.~~ Information Technology

- 22.1. Cabling and Internetworking
- 22.2. Computer Systems
- 22.3. Game Programming
- 22.4. Information Technology Foundations
- 22.5. Information Technology Clinical Internship
- 22.6. Networking

- 22.7. Programming and Logic I
- 22.8. Programming and Logic II
- 22.9. Web ~~Site I~~Page Design I—Foundations
- 22.10. Web Page Design II—Site Designer
- 22.11. Web Page Design III—eCommerce

~~22-23.~~ Law, Public Safety, Corrections, & Security

- 23.1. Court Systems and Practices
- ~~23.2.~~ Criminal Justice I
- 23.2. Criminal Justice II
- 23.3. Criminal Justice III: ~~Forensic Science~~ Investigations
- 23.4. Emergency Preparedness
- ~~23.5.~~ Fire Science I
- ~~23.6.~~ Fire Science II
- ~~23.7.~~ Principles of Fire and Emergency Services
- 23.~~8~~5. Principles of Law, Corrections, and Security

~~23-24.~~ Manufacturing

- 24.1. Digital Electronics
- 24.2. Electromechanical I
- 24.3. Electromechanical II
- 24.4. Introduction to Electromechanical
- 24.5. Manufacturing Applications
- 24.6. Mechatronics I
- 24.7. Mechatronics II
- 24.8. Principles of Machining I
- 24.9. Principles of Machining ~~II~~and Manufacturing
- 24.10. Principles of Manufacturing

~~24-25.~~ Marketing

- 25.1. Advertising and Public Relations
- 25.2. Entrepreneurship\*
- 25.3. Exploration of Organizational Leadership and Marketing
- 25.5. Market Research and Analysis
- 25.6. Marketing & Management I—Principles \*
- 25.7. Marketing & Management II—Advanced Strategies
- 25.10. Retail Operations\*
- 25.11. 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.

~~25-26.~~ Science, Technology, Engineering, & Mathematics (STEM)

- 26.1. Advanced Design Applications (EBD)
- 26.2. Advanced Technological Applications (EBD)
- 26.3. Aerospace Engineering (PLTW)
- 26.4. Automation and Robotics (PLTW)\*
- 26.~~54~~. Biotechnical Engineering (PLTW)
- 26.~~65~~. Civil Engineering and Architecture (PLTW)
- 26.~~76~~. Computer Integrated Manufacturing (PLTW)
- 26.8. Design and Modeling (PLTW)\*
- 26.~~97~~. Digital Electronics (PLTW)
- 26.10. Energy and the Environment (PLTW)\*
- 26.~~118~~. Engineering Design (EBD)
- 26.~~129~~. Engineering Design and Development (PLTW)
- 26.13. Engineering Design I
- 26.14. Engineering Design II
- 26.15. Engineering Practicum
- 26.~~160~~. Exploring Technology (EBD)\*
- 26.17. Flight and Space (PLTW)\*
- 26.~~181~~. Foundations of Technology (EBD)
- 26.19. Green Architecture (PLTW)\*
- ~~26.12. Gateway to Technology (PLTW) \*\*~~
- 26.~~2013~~. Introduction to Engineering Design (PLTW)
- 26.~~2114~~. Introduction to Geographical Information Systems
- 26.~~2215~~. Inventions and Innovations (EBD) \*\*\*
- 26.23. Magic of Electrons (PLTW)\*
- 26.24. Medical Detectives (PLTW)
- ~~26.16 Principles of Engineering~~
- 26.~~2517~~ Principles of Engineering (PLTW)
- 26.26. Principles of Engineering and Technology
- 26.27. Principles of Technology I
- 26.28. Principles of Technology II
- 26.29. Robotics and Automated Systems
- 26.30. Science and Technology (PLTW)\*
- 26.31. STEM Designers
- 26.32. STEM Explorers
- 26.33. STEM Innovators
- 26.34. STEM I: Foundation
- 26.35. STEM II: Applications
- 26.36. STEM III: STEM in Context
- 26.37. STEM IV: Practicum
- 26.~~3818~~. Technological Design (EBD)
- 26.~~3919~~. 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.

\* ~~Exploring Technology is designed for grade 6.~~

~~\*\* Gateway to Technology (PLTW) is a middle school course~~

~~\*\*\* Inventions and Innovations is designed for grade 7.~~

~~\*\*\*\* Technological Systems is designed for grade 8. Courses marked are designed for middle school~~

~~26-27.~~ Transportation, Distribution, & Logistics

~~27.1.~~ 2-4 Cycle Engines I

~~27.2.~~ 2-4 Cycle Engines II

~~27.3.~~ 2-4 Cycle Engines III

~~27.4.~~ Aviation I: Principles of Flight

~~27.5.~~ Aviation II: Advanced Flight

~~Aviation Maintenance I~~

~~27.2.~~ Aviation Maintenance II

~~27.36.~~ Collision Repair: Estimating and Customer Service

~~27.74.~~ Collision Repair: Non-Structural

~~27.85.~~ Collision Repair: Painting and Refinishing

~~27.9.~~ Collision Repair: Structural

~~27.10.~~ Diesel: Electrical/Electronics

~~27.11.~~ Diesel: Engine

~~27.12.~~ Diesel: Preventive Maintenance Inspection

~~27.13.~~ Distribution & Logistics I

~~27.14.~~ Distribution & Logistics II: Management

~~27.15.~~ Foundations of Distribution & Logistics

~~27.16.~~ Introduction to Aerospace

~~27.17.~~ Maintenance and Light Repair I

~~27.18.~~ Maintenance and Light Repair II

~~27.19.~~ Maintenance and Light Repair III

~~27.20.~~ Maintenance and Light Repair IV

~~27.11.~~ Principles of Transportation, Distribution, and Logistics

~~27.12.~~ Theory of Flight

~~27.21-23.~~ Transportation Core

~~27.14.~~ Warehouse and Distribution I

~~27.15.~~ Warehouse and Distribution II

28. Work-Based Learning

28.1. Success Skills Through Service Learning

28.2. Work-Based Learning: Core Subjects

28.3. Work-Based Learning: CTE Subjects