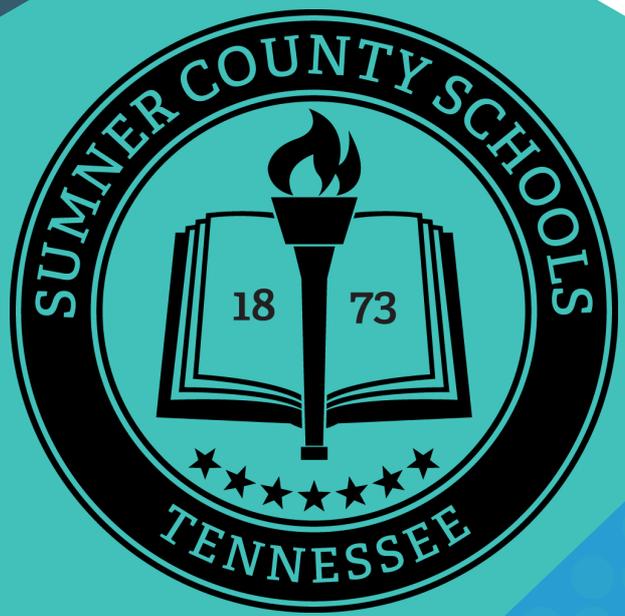


Career & Technical Education



2024-2025

CAREER PATHWAYS GUIDE

Sumner County Schools

www.sumnerschools.org



TENNESSEE Promise

ABOUT

Seniors may apply for the Tennessee Promise scholarship, which will provide two years of tuition-free assistance at a Technical College (including TCAT-Portland/Nashville/Hartsville) and/or a Community College (including Volunteer State Community College) in Tennessee.

OVERVIEW

Tennessee Promise is both a scholarship and mentoring program focused on increasing the number of students that attend college in our state. It provides students a last-dollar scholarship, meaning the scholarship will cover the cost of tuition and mandatory fees not covered by the Pell grant, the HOPE scholarship, or the Tennessee Student Assistance Award. Students may use the scholarship at any of the state's 13 community colleges, 27 colleges of applied technology, or other eligible institution offering an associate degree program.

While removing the financial burden is key, a critical component of Tennessee Promise is the individual guidance each participant will receive from a mentor who will assist the student as he or she navigates the college admission process. This is accomplished primarily via mandatory meetings that students must attend in order to remain eligible for the program. In addition, Tennessee Promise participants must complete and submit eight (8) hours of community service per term enrolled, as well as maintain satisfactory academic progress (2.0 GPA) at their respective institution.

Visit tnpromise.gov for additional information



Sumner County Students and Parents,

Career and Technical Education courses offer a wide variety of opportunities to explore different career pathways and help students find out what they may want to pursue after graduating from high school. The skills taught in CTE courses prepare students to be successful in both college and career, and course standards are aligned to employer expectations in the local job market. Participating in a CTE course also provides students the opportunity to participate in Career and Technical Student Organizations (CTSOs) such as FFA and HOSA where students can eventually compete in international conferences against other students throughout the United States and across the world. Additional information on CTSOs can be found on page 24.

We are extremely excited to provide CTE students with a number of early postsecondary opportunities in their CTE classes as well. In some courses, students can participate in dual enrollment or dual credit options where students can earn college credit while still in high school. Many courses also allow students to earn industry certifications that enhance a student's ability to obtain employment in that particular career pathway. If a cluster has early postsecondary opportunities or industry certifications available then it will be listed at the bottom of that cluster's page.

While in middle school, Sumner County students have the ability to uncover their aptitudes and interests through YouScience (www.youscience.com). For students who may not know which CTE classes to enroll in, YouScience results can help students make those decisions. A worksheet is provided on page 25 to assist students who have completed the YouScience assessment.

We hope this Career Pathways Guide be will an asset to you as you plan which CTE classes to enroll in during your high school career. Sumner County Schools offers 40 different Programs of Study spread across 15 Career Clusters, so hopefully you will find an area of interest to you. An explanation of how Programs of Study and Career Clusters are organized can be found on page 1. Each high school in Sumner County offers different Programs of Study, so please be sure to pay attention to what is available at the high school you will be attending.

If you have any questions please do not hesitate to reach out to me at chase.moore@sumnerschools.org.

Sincerely,

Chase Moore
Supervisor of CTE and STEM
Sumner County Schools

CONTINUOUS NOTICE OF NONDISCRIMINATION

The Sumner County School System does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities; and provides equal access to all programs and youth groups. The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

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CTE Staff

Chase Moore - Supervisor of CTE and STEM

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Becky Roy - CTE and STEM Analyst

Early Postsecondary Opportunities (EPSOs) in CTE

Early postsecondary opportunities include a course and/or exam that gives students a chance to obtain postsecondary (community college, technical college, or university) credit while still in high school. Sumner County Schools is excited to offer a wide variety of opportunities in CTE courses to earn postsecondary credits, with research showing that students who participate in early postsecondary courses are more likely to enroll and persist in postsecondary environments. Throughout this Career Pathways Guide, each CTE career cluster includes a list of the potential early postsecondary opportunities that are available to our students. Industry certifications are also an integral part of this process, and these are included on each cluster page as well.

Early postsecondary opportunities allow students to:

- earn postsecondary credits while still in high school
- become familiar with postsecondary rigor and expectations
- develop confidence and skills for success in postsecondary learning
- make informed postsecondary and career decisions
- decrease the time and cost of completing a certificate or degree

CTE Career Clusters Available at Each High School

CTE courses are divided into Programs of Study, which are grouped into broader Career Clusters. A Program of Study includes industry-aligned, rigorous courses that progress a student in knowledge year after year. These courses provide opportunities for students to experience a subject they are passionate about and explore interests that lead to postsecondary learning and future career paths. Each school contains career clusters relevant to career opportunities in the local area. A student must earn two or more credits within a Program of Study to be considered a CTE Concentrator. A third course within the same Career Cluster meets the graduation requirement for an elective focus.

EXAMPLE

The Career Cluster of Business Management & Administration is divided into two Programs of Study:

1. Business Management
2. Office Management

Each Program of Study offers different courses unique to the specific technical skills required at the postsecondary level and as a career. The remaining pages of this Career Pathways Guide detail the specific Programs of Study and CTE courses available at each high school.



Agriculture, Food, & Natural Resources
Architecture & Construction
Arts, Audio/Visual Technology, & Communications
Business Management & Administration
Education & Training
Finance
Health Science
Human Services
Information Technology
Law, Public Safety, Corrections, & Security
Marketing, Distribution, & Logistics
Science, Technology, Engineering, & Mathematics (STEM)

Advanced Manufacturing
Agriculture, Food, & Natural Resources
Arts, Audio/Visual Technology, & Communications
Business Management & Administration
Education & Training
Finance
Health Science
Hospitality & Tourism
Human Services
Law, Public Safety, Corrections, & Security
Marketing, Distribution, & Logistics
Transportation



Agriculture, Food, & Natural Resources
Architecture & Construction
Arts, Audio/Visual Technology, & Communications
Business Management & Administration
Finance
Health Science
Human Services
Information Technology
Law, Public Safety, Corrections & Security
Marketing, Distribution, & Logistics
Science, Technology, Engineering, & Mathematics (STEM)



Advanced Manufacturing
Agriculture, Food, & Natural Resources
Business Management & Administration
Education & Training
Finance
Health Science
Hospitality & Tourism
Law, Public Safety, Corrections & Security
Marketing, Distribution, & Logistics
Transportation

Business Management & Administration
Finance
Marketing, Distribution, & Logistics



Advanced Manufacturing
Agriculture, Food, & Natural Resources
Architecture & Construction
Arts, Audio/Visual Technology, & Communications
Business Management & Administration
Education & Training
Health Science
Human Services
Information Technology
Law, Public Safety, Corrections, & Security
Marketing, Distribution, & Logistics



Agriculture, Food, & Natural Resources
Architecture & Construction
Arts, Audio/Visual Technology, & Communications
Business Management & Administration
Health Science
Human Services
Information Technology
Marketing, Distribution, & Logistics

Advanced Manufacturing
Agriculture, Food, & Natural Resources
Architecture & Construction
Arts, Audio/Visual Technology, & Communications
Business Management & Administration
Education & Training
Health Science
Human Services
Marketing, Distribution, & Logistics



Agriculture, Food, & Natural Resources
Arts, Audio/Visual Technology, & Communications
Business Management & Administration
Health Science
Human Services
Information Technology
Marketing, Distribution, & Logistics
Science, Technology, Engineering, & Mathematics (STEM)
Transportation

Middle Technical College High School (located at TCAT-Portland)

Advanced Manufacturing
Architecture & Construction
Business Management & Administration
Human Services
Information Technology



More information on pages 22-23

Advanced Manufacturing

Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Machining Technology	Principles of Manufacturing	Principles of Machining I	Principles of Machining II or Dual Enrollment	Manufacturing Practicum or Dual Enrollment	GHS, LCHS, PHS, WHS, MTCHS
Mechatronics	Principles of Manufacturing	Robotics and Automated Systems	Dual Enrollment I	Dual Enrollment II	LCHS, MTCHS
Welding	Principles of Manufacturing	Welding I	Welding II or Dual Enrollment	Manufacturing Practicum or Dual Enrollment	LCHS, PHS, WHS, MTCHS

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Computer-Control Machine Tool Operator (\$37,460)
Production Certification Machining Level 1 American Welding Society (TCAT)	Certificate/Apprenticeship	Welder (\$42,922) Manufacturing Production Technicians (\$56,390) Industrial Engineer Technician (\$47,250)
Industrial Technology Applied Manufacturing Mechatronics Technology	Associate	Manufacturing Production Technician (\$56,390) Mechanical Engineer Technician (\$52,640)
Mechanical Engineering Materials Engineering Electrical Engineering	Bachelor's	Mechanical Engineer (\$91,500) Materials Engineer (\$113,380)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

OSHA 10 industry certification
 Machining Level 1 (NIMS) industry certification
 NC3 Lincoln Electric Welding Safety industry certification
 NC3 Lincoln Electric Shielded Metal Arc Welding Level 1 industry certification
 Industrial Safety dual credit exam (Vol State)
 Dual Enrollment Machine Tool Technology (TCAT Hartsville & TCAT Nashville)
 Dual Enrollment Mechatronics (TCAT Hartsville)
 Dual Enrollment Welding (TCAT Hartsville or TCAT Nashville)

Agriculture, Food, & Natural Resources

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Agricultural Engineering, Industrial, and Mechanical Systems	Agriscience	Principles of Agricultural Mechanics	Agricultural Power and Equipment	Agricultural Fabrication & Biosystems Engineering	BHS, HHS, PHS, WHHS
Environmental & Natural Resource Management	Agriscience	Applied Environmental Science	Plant and Soil Science	Natural Resources Management or AP Environmental Science	HHS
Horticulture Science	Agriscience	Principles of Plant Science & Hydroculture	Greenhouse Management	Landscaping and Turf Science	BHS, GHS, HHS, LCHS, PHS, SCHS, WHS, WHHS
Veterinary & Animal Science	Agriscience	Small Animal Science	Large Animal Science	Veterinary Science	BHS, GHS, HHS, LCHS, PHS, SCHS, WHS, WHHS

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Animal Trainer (\$23,740) Greenhouse Worker (\$25,090)
Agriculture Applications Animal Care Technology Veterinary Assignment	Certificate/Apprenticeship	Landscaping and Groundskeeping (\$30,090) Agricultural Equipment Operator (\$35,330)
Plant Science Animal Science	Associate	First-Line Supervisors of Landscaping Workers (\$38,860)
Animal Science Horticulture Veterinary Medicine	Bachelor's +	Natural Sciences Manager (\$114,440) Soil and Plant Scientist (\$54,040) Veterinarian (\$94,760)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

OSHA 10 industry certification
 Elanco Fundamentals of Animal Science industry certification
 Elanco Veterinary Medical Applications industry certification
 Intro to Ag Leadership dual credit exam (MTSU)
 Agribusiness dual credit exam (MTSU)
 Plant Science dual credit exam (MTSU)
 Various Dual Enrollment Courses online through UT Martin

Architecture & Construction

Careers in designing, planning, managing, building and maintaining the built environment.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Architectural & Engineering Design	Architectural & Engineering Design I	Architectural & Engineering Design II	Architectural & Engineering Design III	Engineering Practicum or AP Calculus or AP Physics	HHS, PHS, WHS
Interior Design	Foundations of Interior Design	Residential Interior Design	Commercial Interior Design	Advanced Interior Design	BHS, HHS, SCHS
Residential & Commercial Construction	Fundamentals of Construction	Residential & Commercial Construction I	Residential & Commercial Construction II	Construction Practicum	WHS, MTCHS
Structural Systems	Fundamentals of Construction	Structural Systems I	Structural Systems II	Construction Practicum	WHS

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Roofer (\$36,659) Construction Laborers (\$41,238)
Building Construction Technology Interior Design Masonry Technology	Certificate/Apprenticeship	Concrete Finishers (\$38,168) Brick and Block Masons (\$51,926)
A.A.S. Interior Design Technology	Associate	Interior Designer (\$46,299)
Architecture Construction Science Interior Design	Bachelor's	Interior Designer (\$46,299) Architecture (\$76,801) Civil Engineers (\$82,086)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

OSHA 10 industry certification
NCCER Core Curriculum industry certification
NCCER Carpentry Level One industry certification
AutoCAD User industry certification

Arts, Audio/Visual Technology, & Communications

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Audio/Visual Production	A/V Production I	A/V Production II	A/V Production III	Applied Arts Practicum	HHS
Digital Arts and Design	Digital Arts & Design I	Digital Arts & Design II	Digital Arts & Design III	Applied Arts Practicum	BHS, GHS, HHS, PHS, SCHS, WHHS
Fashion Design	Visual Art I	Foundations of Fashion Design	Fashion Design	Advanced Fashion Design	BHS, HHS, PHS, SCHS

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Merchandise Displayers (\$29,050) Camera Operators (\$44,228)
Photography 3D Design and Graphics	Certificate/Apprenticeship	First Line Supervisors of Retail Workers(\$35,950) Web Developer (\$58,060)
Digital Media Design & Production Art (Nash. Community College) Entertainment Media Production	Associate	Wholesale and Retail Buyers (\$49,640) Broadcast Technicians (\$49,400)
Graphic Design Graphic Arts Technology Fashion Merchandising	Bachelor's	Art Directors (\$73,936) Fashion Designers (\$72,800) Producer and Director (\$52,358)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

Adobe Certified Associate industry certification
Design Composition dual credit exam (Nossi College of Art)

Business Management & Administration

Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Business Management	Introduction to Business and Marketing	Business Communications or Accounting I	Business Management	Business and Entrepreneurship Practicum or Virtual Enterprise International	BHS, GHS, LCHS, MHMS, PHS, SCHS, WHS, WHHS
Office Management	Computer Applications	Business Communications	Business Management	Advanced Computer Applications	BHS, GHS, HHS, LCHS, PHS, SCHS, WHS, WHHS

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	General Office Clerk (\$36,120)
Business Management Concentration (Vol State)	Certificate/Apprenticeship	Administrative Assistant (\$39,720)
Computer Information Technology	Associate	Human Resource Assistant (\$42,840)
Computer Science	Bachelor's	General Operations Manager (\$95,980) Administrative Services Manager (\$80,730)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

Lean Six Sigma industry certification
 Microsoft Office Specialist - Excel industry certification
 Microsoft Office Specialist - PowerPoint industry certification
 Microsoft Office Specialist - Word industry certification

Education & Training

Planning, managing and providing education and training services, and related learning support services.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Early Childhood Education Careers	Early Childhood Education Careers I	Early Childhood Education Careers II	Early Childhood Education Careers III	Early Childhood Education Careers IV	BHS
Teaching as a Profession (K-12)	Intro to Teaching as a Profession	Teaching as a Profession I	Teaching as a Profession II	Teaching as a Profession Practicum	GHS, LCHS, PHS, WHS

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Childcare Worker (\$26,490)
Education Early Childhood Education	Certificate/Apprenticeship	Teacher's Assistant (\$26,340) Tutor (\$31,356)
Early Childhood Education	Associate	Preschool Teacher (\$37,980)
Education	Bachelor's	School Social Workers (\$43,360) Education Administrator (\$79,470) School Teachers (\$51,980) Speech- Language Pathologist (\$78,000)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

Child Development Associate industry certification
Introduction to Early Childhood dual credit exam (Vol State)
Dual Enrollment Introduction to Education (Vol State)

Finance

Planning services for financial and investment planning, banking, insurance, and business financial management.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Accounting	Introduction to Business and Marketing	Accounting I	Accounting II	Financial Planning or Statistics or AP Statistics	BHS, GHS, HHS, LCHS, MHMS, WHHS
Banking and Finance	Introduction to Business and Marketing	Accounting I	Banking and Finance	Financial Planning	BHS, HHS

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
Accounting Assistant Technical Accounting	Certificate/Apprenticeship	Accounting Assistant (\$35,300)
A.A.A. Accounting A.S. Accounting	Associate	Billing and Account Collectors (\$36,990) Bookkeeping, Auditing, or Accounting Clerk (\$40,070) Payroll Clerk (\$42,340)
Accounting	Bachelor's	Budget Analyst (\$68,340) Accountant (\$64,130) Financial Manager (\$100,290)

Health Science

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Diagnostic Services	Health Science Education	Diagnostic Medicine	Anatomy and Physiology	Cardiovascular Services or Clinical Internship	BHS, HHS
Emergency Services	Health Science Education	Medical Therapeutics	Anatomy and Physiology	Emergency Medical Services or Emergency Medical Services Practicum	GHS, WHS
Nursing Services	Health Science Education	Medical Therapeutics	Anatomy and Physiology	Nursing Education or Clinical Internship	BHS, HHS, LCHS, PHS, SCHS, WHS
Sport and Human Performance	Health Science Education	Rehabilitation Careers	Anatomy and Physiology	Exercise Science or Clinical Internship	BHS, LCHS, SCHS, WHS, WHHS
Therapeutic Services	Health Science Education	Pharmacological Science or Nutrition Science and Diet Therapy or Medical Therapeutics or Medical Assisting or Public Health and Epidemiology	Anatomy and Physiology	Clinical Internship	GHS, HHS, LCHS, PHS, WHHS

*Medical Terminology can be offered in addition to courses within the Health Science Career Cluster, but does not count toward concentrator status.

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Physical Therapy Aide (\$31,249)
Certified Nursing Assistant (CNA) Certified Clinical Medical Assistant (CCMA) Diagnostic Medical Sonography Certificate (Vol State)	Certificate/ Apprenticeship	Nursing Assistant (\$34,420) Massage Therapist (\$52,321)
Practical Nursing (TCAT) Physical Therapist Assistant (Vol State) Radiologic Technology (Vol State)	Associate	Licensed Practical Nurse (\$41,640) Physical Therapy Assistant (\$59,640)
Nursing Master of Science in Nursing (Union University of Hendersonville)	Bachelor's +	Registered Nurse (\$65,470) Microbiologist (\$56,526)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

CPR/AED/First Aid industry certification
 Certified Clinical Medical Assistant (CCMA) industry certification
 Certified EKG Technician industry certification
 Certified Nursing Assistant (CNA) industry certification
 Certified Patient Care Technician (CPCT) industry certification
 Certified Personal Trainer (CPT) industry certification
 Emergency Medical Responder industry certification
 OSHA 10 industry certification
 Medical Terminology dual credit exam (Vol State)
 Dual Enrollment EMT courses (Vol State)
 Dual Enrollment Intro to Health Professions (Welch)

Hospitality & Tourism

Hospitality and Tourism encompasses the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Culinary Arts	Culinary Arts I	Culinary Arts II	Culinary Arts III	Culinary Arts IV or Dual Enrollment	GHS, LCHS

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Food Prep Worker (\$26,560)
ServSafe Food Manager Culinary Arts Technician (NSCC)	Certificate/Apprenticeship	Restaurant Manager (\$46,594) Restaurant Assistant Manager (\$32,890)
Culinary Arts	Associate	Head Chef (\$51,206)
Culinary Arts Management	Bachelor's	Private Chef (\$68,643) Executive Chef (\$63,772)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

ServSafe Manager industry certification
 ServSafe Food Handler industry certification
 Dual Enrollment Culinary Arts
 (Nashville State Community College)

Human Services

Human Services prepares individuals for employment within career pathways that relate to families and human needs.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Cosmetology	Cosmetology I	Cosmetology II	Cosmetology III	Cosmetology IV	BHS, GHS, PHS, WHHS, MTCHS
Dietetics & Nutrition	Intro. to Human Studies	Nutrition Across the Lifespan	Nutrition Science and Diet Therapy	Human Services Practicum and/or Psychology and/or Sociology	BHS, HHS, PHS, SCHS
Human & Social Sciences	Intro. to Human Studies	Lifespan Development	Family Studies	Human Services Practicum and/or Psychology and/or Sociology	BHS, HHS, PHS

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Cosmetologist (\$30,430)
Cosmetologist License	Certificate/Apprenticeship	Esthetician (\$46,459)
Human Services	Associate	Dietetic Technician (\$41,010)
Sociology and/or Nutrition	Bachelor's+	Social Worker (\$51,739) Dietician and Nutritionist (\$55,560)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

Cosmetologist License industry certification
 TSIC for Dietetics and Nutrition industry certification
 TSIC for Human and Social Sciences industry certification

Information Technology

Building linkages in the IT occupations framework: for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Coding	Computer Science Foundations	Coding I	Coding II or Mobile App Development	Coding Practicum and/or AP Computer Science A and/or AP Computer Science Principles	GHS, HHS, PHS, SCHS, WHS, WHHS
Web Design	Computer Science Foundations	Web Design Foundations	Web Site Development	Web Design Practicum and/or AP Computer Science Principles	BHS

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Desktop Publisher (\$35,210) Computer Operator (\$39,230)
IT Network Support Specialist IT Security Specialist CompTIA Certifications	Certificate/Apprenticeship	Cybersecurity Specialist (\$45,730) Web Developer (\$58,060)
Computer Information Technology	Associate	Web Administrator (\$72,100)
Computer Science	Bachelor's	Computer Programmer (\$77,490) Computer System Analyst (\$73,480) Software Developer (\$91,340)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

AP Computer Science A
AP Computer Science Principles

Law, Public Safety, Corrections & Security

Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Criminal Justice and Correction Services	Criminal Justice I	Criminal Justice II	Criminal Justice III: Forensic Criminal Investigations	Criminal Justice Practicum	BHS, GHS, HHS, LCHS, PHS
Fire Management Services	Dual Enrollment Principles of Emergency Service	Dual Enrollment Fire Prevention	Dual Enrollment Building Construction & Fire Protection	Dual Enrollment Fire Safety and Survival	GHS
Pre-Law	Pre-Law I	Pre-Law II	Pre-Law III	Pre-Law Practicum and/or AP U.S. Gov and Politics	HHS, LCHS

CAREER OPPORTUNITIES

MAJOR/FOCUS AREA	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Police Patrol Officer (\$47,270)
Criminal Justice Fire Science Paralegal Studies	Associate	Corrections Officer and Jailer (\$43,890) Municipal Firefighter (\$44,610) Paralegal (\$45,770)
Criminal Justice	Bachelor's	Probation Officer (\$43,930) Criminal Investigator (\$86,940) Police Detective (\$67,290)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

Intro. to Criminal Justice dual credit exam (Vol State)
Intro. to Crime Scene Investigation dual credit exam (Vol State)
Various Dual Enrollment courses available through MTSU

Marketing, Distribution, & Logistics

Planning, managing, and performing marketing activities to reach organizational objectives, as well as careers involved in the planning, management, and movement of people, materials, and products by road, air, rail, and water.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Entrepreneurship	Introduction to Entrepreneurship	Marketing and Management I: Principles	Entrepreneurship	Business & Entrepreneurship Practicum or Virtual Enterprise International	BHS, MHMS, SCHS, WHHS
Marketing Management	Introduction to Business & Marketing	Marketing and Management I: Principles	Marketing and Management II or Social Media Marketing	Advertising & Public Relations or Retail Operations or Event Planning & Management	BHS, GHS, HHS, LCHS, MHMS, PHS, SCHS, WHS, WHHS

CAREER OPPORTUNITIES

MAJOR/FOCUS	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Retail Salesperson (\$27,984)
Microsoft Office Specialist Certification (TCAT)	Certificate/Apprenticeship	General Office Assistant (\$33,323)
Business-Marketing Concentration	Associate	Meeting/Event Planner (\$42,135) Retail Supervisor (\$39,950)
Business Administration with emphasis in Marketing MBA	Bachelor's+	Marketing Specialist (\$49,739) Advertising/Promotions Manager (\$59,517) Marketing Manager (\$105,460)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

Lean Six Sigma industry certification
Hootsuite Social Media Marketing industry certification
Principles of Marketing dual credit exam (Vol State)
Online Dual Enrollment classes in Supply Chain Management (Vol State)

Science, Technology, Engineering, & Mathematics (STEM)

Planning, managing, and providing scientific research and professional and technical services (e.g. physical science, social science, engineering) including laboratory and testing services, and research and development services

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Advanced STEM Applications	STEM I: Foundation	STEM II: Applications or AP Computer Science Principles	STEM III: STEM in Context or AP Computer Science Principles	STEM IV: STEM Practicum	WHHS
Engineering	Principles of Engineering & Technology	Engineering Design I or AP Computer Science Principles	Engineering Design II or AP Computer Science Principles	Engineering Practicum and/or AP Physics	BHS, HHS

CAREER OPPORTUNITIES

MAJOR/FOCUS	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Electrical Installer and Repairer (\$44,420)
Mechatronics Technology	Associate	Electric Engineering Technician (\$54,600) Mechanic Engineering Technician (\$52,640) GIS Technician (\$72,220)
Civil, Mechanical, or Electrical Engineering Mechatronics Engineering	Bachelor's	Electrical Engineer (\$97,130) Mechanical Engineer (\$91,500) Mechatronics Engineer (\$76,260) Software Developer (\$91,340)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

AP Computer Science A
AP Computer Science Principles
Autodesk Fusion360 industry certification
Autodesk Inventor industry certification

Transportation

Transportation prepares students for careers involving automotive repair, automotive collision repair, and aviation. The nation's dependence on automobiles means the job demand will remain strong in the automotive fields.

EDUCATION OPPORTUNITIES IN HIGH SCHOOL

Program	Level 1	Level 2	Level 3	Level 4	Locations
Automotive Maintenance and Light Repair	Maintenance and Light Repair I	Maintenance and Light Repair II	Maintenance and Light Repair III	Maintenance and Light Repair IV	GHS, WHHS
Aviation Flight	Introduction to Aerospace	Aviation I: Principles of Flight	Aviation II: Advanced Flight	Unmanned Aircraft Systems Pilot	LCHS

CAREER OPPORTUNITIES

MAJOR/FOCUS	LEVEL OF EDUCATION	POTENTIAL CAREERS
High School CTE	High School Diploma	Automotive Service Technicians (\$39,020)
Light Maintenance Repair Technician (TCAT) Automotive Technician (TCAT)	Certificate	Bus and Truck Mechanics and Diesel Engine Specialists (\$45,160) Drone Pilots (\$65,240) Automotive and Body Related Repairers (\$42,590)
Automotive Service Technology Mechanical Engineering Technology	Associate	Electrical and Electronics Engineering Tech (\$53,320) Air Traffic Controllers (\$123,400)
Mechanical Engineering	Bachelor's	Airline Pilots (\$105,830) Aerospace Engineers (\$93,920)

POTENTIAL EARLY POSTSECONDARY OPPORTUNITIES

FAA Part 107 Drone Pilot industry certification
Private Pilot Knowledge Exam industry certification
OSHA 10 industry certification

Work-Based Learning

Work-Based Learning (WBL) is a proactive approach to bridging the gap between high school and in-demand, high-skill careers in Tennessee. Students build on classroom-based instruction to develop employability skills that prepare them for success in postsecondary education and future careers. WBL experiences should align with student interest and provide exposure to professional work settings and expectations. Student work is judged by professional standards, and students are motivated by feedback from workplace supervisors, customers, and clients. WBL experiences may culminate in capstone experiences such as internships, apprenticeships, clinicals, and practicums for high school credit.

STUDENTS WHO PARTICIPATE IN WBL CAN:

- Set and pursue career, educational, and personal goals
- Understand the connection between school and their postsecondary and career goals
- Model mature professional behaviors and rise to the expectations of employers while demonstrating good work habits
- Develop leadership skills and a sense of responsibility
- Solve problems cooperatively and creatively
- Build social networks that will support their learning and expand future opportunities
- Access opportunities for economic and social prosperity to support themselves and their families

JOB SHADOWS

In addition to the Work-Based Learning: Career Practicum course, some Sumner County high schools also offer job shadow opportunities through CTE classes. These experiences provide CTE students with a career exploration activity where students observe the workday of a professional, interact with clients or customers, and attend meetings or other appointments. Job shadows are designed to help students explore a field of interest while developing research skills and building occupational knowledge through a facilitated, active learning process.

Sumner County Middle Technical College High School At Portland



Why should you consider MTCHS?

Students can enjoy a more independent, self-paced learning environment with an emphasis on hands-on training.

MTCHS is designed to give students an opportunity to receive a high school diploma while earning credits that can lead to an industry certification and/or Tennessee College of Applied Technology (TCAT) diploma.

Families can save money while their student receives postsecondary credits for little to no cost.

Programs Offered

PROGRAMS	SKILLS
Industrial Maintenance/ Mechatronics	Electricity, Hydraulics, Pneumatics, Robotics
Residential, Commercial, & Industrial Electricity	Electrical
Computer Information Technology	Technical Support, Networking, Security
Cosmetology	Cutting, Styling, Coloring, Esthetics, Manicures
Machine Tool Technology	Manual Lathe and Milling, CNC Machining
Welding Technology	Multi-Welding Process (MIG, TIG, Stick, Pipe)

Student Criteria

GPA of 2.5, MTCHS Application, Parent/Student Agreement, Teacher Recommendation, Counselor/Administrator Recommendation, Current High School Transcript

Must be entering junior or senior year in high school

In addition to the above items, a review of the student's attendance and discipline records will be conducted by the Middle Technical College High School Administration.

Application Process

1. Sumner County Middle Technical College High School Applications may be obtained, completed, and submitted to the student's high school guidance office.
2. Parent/Student Agreement and required Recommendations must also be submitted to the school's guidance office.
3. Once accepted to MTCHS, a separate application for Tennessee College of Applied Technology-Nashville (TCATN) is required.
4. A mandatory parent and student meeting is required for all attending students.

FOR ADDITIONAL INFORMATION, CONTACT:
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(615) 745-3126
MTC.SUMNERSCHOOLS.ORG

Career and Technical Student Organizations



Welcome to the world of Tennessee Career and Technical Student Organizations (CTSO)! This CTSO Information Sheet provides a quick reference guide for each of the seven Tennessee CTSOs. These organizations engage students through focus on CTE application activities such as developing and practicing leadership roles and applying specific occupational and academic content knowledge as an integral part of the instructional program.



Tennessee DECA Website
www.decatn.org
 National DECA Website
www.deca.org
 Connect with Tennessee DECA:
 Twitter and Instagram: @DECATN

Career Clusters served by DECA:
 Marketing
 Business Management & Administration
 Finance
 Hospitality & Tourism



Tennessee FBLA Website:
www.fblatn.org
 National FBLA Website:
www.fbla-pbl.org
 Connect with Tennessee FBLA:
 Twitter and Instagram: @FBLATN

Career Clusters served by FBLA:
 Arts, A/V Technology & Communications
 Business Management & Administration
 Finance
 Government & Public Administration
 Information Technology
 Marketing



Tennessee FCCLA Website:
www.Tennesseefccla.org
 National FCCLA Website:
www.fcclainc.org
 Connect with FCCLA:
 Twitter: @TennesseeFCCLA

Career Clusters served by FCCLA:
 Architecture & Construction
 Arts, A/V Technology & Communication
 Education & Training
 Hospitality & Tourism
 Human Services



Tennessee FFA Website
www.tnffa.org
 National FFA Website
www.ffa.org
 Connect with Tennessee FFA:
 Twitter: @TNFFA

Career Cluster served by FFA:
 Agriculture, Food, and Natural Resources



Tennessee HOSA Website
www.tennesseehosa.org
 National HOSA Website
www.hosa.org
 Connect with Tennessee HOSA:
 Twitter: @TNHOSA

Career Cluster served by HOSA:
 Health Science



Tennessee SkillsUSA Website
www.tnskillsusa.com
 National SkillsUSA Website
www.skillsusa.org
 Connect with Tennessee SkillsUSA:
 Twitter: @SkillsUSATN
 Instagram: tn_skillsusa

Career Clusters served by SkillsUSA:
 Architecture & Construction
 Arts, A/V Technology & Communications
 Government & Public Administration
 Hospitality & Tourism (Culinary Arts)
 Human Services (Cosmetology & Barbering)
 Information Technology
 Law, Public Safety, Corrections, & Security
 Manufacturing
 STEM (Science, Technology, Engineering, & Mathematics)
 Transportation, Distribution, & Logistics



Tennessee TSA Website
www.tntsa.org
 National TSA Website
www.tsaweb.org
 Connect with Tennessee TSA:
 Twitter: @TNTSA

Career Clusters served by TSA:
 Architecture & Construction
 Arts, A/V Technology & Communications
 Information Technology
 Manufacturing
 STEM (Science, Technology, Engineering, and Mathematics)



YouScience Worksheet for Rising 9th Graders

LOG-IN

1. Visit www.bit.ly/SumnerClever to login through Clever
2. Click on Student & Teacher Google Login
3. Use your sumnerk12.net account and password to log in; contact your Counselor if you need assistance logging in

WHAT ARE “YOUR TOP 2 TALENTS”?

- 1.
- 2.

Pick one of these talents – What does this aptitude say about you? (hint: look at the aptitude description in the box below “Explore More of Your Talents”)

TOP INTEREST AREAS

Identify the types of work you think would be fun or enjoyable. Scroll down to “Your Top 3 Types of Work that Interest You” to view your three highest interest areas.

- 1.
- 2.
- 3.

CAREER CLUSTER EXPLORATION

Click on the icon ” View Career Matches”

TOP 3 FITS BY APTITUDE*

- 1.
- 2.
- 3.

TOP 3 FITS BY INTEREST*:

- 1.
- 2.
- 3.

*Click on a Career Cluster (hexagon) to learn more about the careers associated with each one.

MY NOTES

PARENT NOTES

COUNSELOR NOTES



Check out our Sumner County CTE page on YouTube for additional information about each program.