

Advanced Manufacturing

Mechatronics

Level 1: Principles of Manufacturing

Level 2: Digital Electronics

Level 3: Mechatronics I

Level 4: Mechatronics II or Manufacturing Practicum

Dual Enrollment Courses (MTSU): Fluid Power; Digital Fundamentals and Programmable Logic Controllers; Electrical Components; Mechanical Components and Electrical Devices; Pneumatic and Hydraulic Control Circuits; Digital; Industrial Robotics; Motor Control

Dual Enrollment Courses (TCAT): Mechatronics I; Mechatronics II

Industry Certifications: Machining Level 1 – Measurement, Materials, and Safety Certification (NIMS); Snap-On Precision Measurement; FANUC (Robotics and Automated Systems); Level 1 Siemens Certified Mechatronic Systems Assistant

Schools

Oakland

Machining Technology

Level 1: Principles of Manufacturing

Level 2: Principles of Machining I

Level 3: Principles of Machining II

Level 4: Manufacturing Practicum

Schools

Rockvale

Industry Certifications: OSHA 10; OSHA 30; Production Certification (CPT)

Agriculture, Food, and Natural Resources – Page 1

Agribusiness

- Level 1:** Agriscience
- Level 2:** Principles of Agribusiness
- Level 3:** Organizational Leadership & Communications
- Level 4:** Agricultural Business and Finance

Statewide Dual Credit: Introduction to Agricultural Business

Industry Certifications: OSHA 10; OSHA 30; TSIC: Animal Science

Schools

Eagleville

Horticulture Science

- Level 1:** Agriscience
- Level 2:** Principles of Plant Science and Hydroculture
- Level 3:** Greenhouse Management
- Level 4:** Landscaping & Turf Science

Dual Enrollment Courses (UT-M): Landscaping and Turf Science*

Industry Certifications: OSHA 10; OSHA 30

Schools

Blackman
Eagleville*
LaVergne
Rockvale
Siegel
Smyrna
Stewarts Creek

Environment and Natural Resource Management

- Level 1:** Agriscience
- Level 2:** Applied Environmental Science
- Level 3:** Plant and Soil Science
- Level 4:** Natural Resource Management

Statewide Dual Credit: Introduction to Plant Science

Industry Certifications: OSHA 10; OSHA 30

Schools

Riverdale

Agricultural Engineering and Applied Technologies

- Level 1:** Agriscience
- Level 2:** Principles of Agriculture Mechanics
- Level 3:** Agricultural Power and Equipment
- Level 4:** Agricultural and Biosystems Engineering

Industry Certifications: OSHA 10; OSHA 30

Schools

Oakland
Riverdale

Veterinary and Animal Science

Level 1: Agriscience

Level 2: Small Animal Science

Level 3: Large Animal Science

Level 4: Veterinary Science

Dual Enrollment Courses (UT-M): Veterinary and Animal Science*

Schools

Blackman

Eagleville*

LaVergne

Oakland

Riverdale

Siegel

Smyrna

Stewarts Creek*

Industry Certifications: OSHA 10; OSHA 30; TSIC: Animal Science

Architecture and Construction

Architectural & Engineering Design

- Level 1:** Architectural and Engineering Design I
- Level 2:** Architectural and Engineering Design II
- Level 3:** Architectural and Engineering Design III
- Level 4:** Engineering Practicum

Local Dual Credit (TCAT): Computer Aided Design Technology

Industry Certifications: OSHA 10; OSHA 30

Schools

Siegel
Central

Interior Design

- Level 1:** Foundations of Interior Design
- Level 2:** Residential Interior Design
- Level 3:** Commercial Interior Design
- Level 4:** Advanced Interior Design

Industry Certifications: N/A

Schools

Smyrna

Mechanical, Electrical, and Plumbing (MEP) Systems

- Level 1:** Fundamentals of Construction
- Level 2:** MEP Systems
- Level 3:** HVAC
- Level 4:** Construction Practicum

Local Dual Credit (TCAT): Industrial Electricity

Industry Certifications: OSHA 10; NCCER Core Curriculum; HVAC Excellence, Heating, Electrical, Air Conditioning Technology (H.E.A.T.); HVAC Excellence Employment Ready Certifications; Universal R-410A; EPA Section 608 Universal

Schools

Oakland
Rockvale

Residential and Commercial Construction

- Level 1:** Fundamentals of Construction
- Level 2:** Residential and Commercial Construction I
- Level 3:** Residential and Commercial Construction II
- Level 4:** Construction Practicum

Industry Certifications: OSHA 10; NCCER Core Curriculum; NCCER Construction Technology; OSHA 30

Schools

Oakland

Arts, Audio/Visual Technology, & Communications

Audio/Visual Production

Level 1: A/V Production I

Level 2: A/V Production II

Level 3: A/V Production III

Level 4: Applied Arts Practicum

Schools

Blackman
Oakland
Stewarts Creek

Industry Certifications: N/A

Audio Production

Level 1: Introduction to Audio Production

Level 2: Audio Recording

Level 3: Event Audio

Level 4: Applied Arts Practicum

Schools

Stewarts Creek

Industry Certifications: N/A

Digital Arts & Design

Level 1: Digital Arts & Design I

Level 2: Digital Arts & Design II

Level 3: Digital Arts & Design III

Level 4: Applied Arts Practicum

Advanced Placement: AP Studio Art: 2-D Design*

Schools

Blackman*
Oakland
Riverdale
Rockvale
Siegel
Smyrna

Industry Certifications: N/A

Business Management and Administration

Business Management

Level 1: Introduction to Business & Marketing

Level 2: Business Communications or Accounting I

Level 3: Business Management

Level 4: Business Entrepreneurship or Virtual Enterprise International

Statewide Dual Credit: Introduction to Business*

Industry Certifications: N/A

Schools

Blackman
Oakland
Riverdale*
Rockvale
Siegel
Smyrna

Human Resource Management

Level 1: Introduction to Business & Marketing and/or Computer Applications

Level 2: Business Communications

Level 3: Human Resource Management

Level 4: Human Resource Practicum

Statewide Dual Credit: Introduction to Business

Industry Certifications: Google Suite

Schools

Riverdale

Office Management

Level 1: Introduction to Business & Marketing and/or Computer Applications

Level 2: Business Communications

Level 3: Business Management

Level 4: Advanced Computer Applications

Local Dual Credit (TCAT): Advanced Computer Applications

Industry Certifications: Microsoft Office Specialist; Microsoft Office Expert; Microsoft Office Master

Schools

Blackman
Eagleville
Holloway
Siegel

Education and Training

Teaching as a Profession (K-12)

Level 1: Fundamentals of Education

Level 2: Teaching as a Profession I

Level 3: Teaching as a Profession II

Level 4: Teaching as a Profession Practicum

Dual Enrollment Courses (MSCC): Teaching as a Profession (K-12)*; Education and Training*

Dual Enrollment Courses (MTSU): Teaching as a Profession (K-12)**

Schools

Blackman
Oakland*
Riverdale**
Rockvale
Siegel
Smyrna

Industry Certifications: N/A

Early Childhood Education

Level 1: Early Childhood Education Careers I

Level 2: Early Childhood Education Careers II

Level 3: Early Childhood Education Careers III

Level 4: Early Childhood Education Careers IV

Schools

Holloway

Industry Certifications: Child Development Associate (CDA)

Finance

Accounting

Level 1: Introduction to Business & Marketing and/or Computer Applications

Level 2: Accounting I

Level 3: Accounting II

Level 4: Financial Planning

Schools

Siegel
Stewarts Creek

Banking and Finance

Level 1: Introduction to Business & Marketing and/or Computer Applications

Level 2: Accounting I

Level 3: Accounting II

Level 4: Banking & Finance

Schools

Blackman
Central
Smyrna

Industry Certifications: N/A

Industry Certifications: N/A

Health Science – Page 1

Diagnostic Services

- Level 1:** -----
- Level 2:** Health Science Education
- Level 3:** Anatomy and Physiology
- Level 4:** Diagnostic Medicine

Schools

LaVergne

Industry Certifications: Certified EKG Technician; OSHA 10

Therapeutic Services

- Level 1:** Health Science Education
- Level 2:** Anatomy and Physiology or
- Level 3:** Dental Science or Pharmacological Science or Nutrition Science or Medical Therapeutics
- Level 4:** Clinical Internship

Schools

Blackman
LaVergne
Oakland
Riverdale
Rockvale
Siegel
Smyrna
Stewarts Creek

Industry Certifications: Certified Pharmacy Technician; Certified Clinical Medical Assistant

Sport and Human Performance

- Level 1:** Health Science Education
- Level 2:** Rehabilitation Careers or
- Level 3:** Anatomy and Physiology
- Level 4:** Exercise Science and/or Clinical Internship

Schools

Blackman
LaVergne
Oakland
Riverdale
Siegel
Smyrna
Stewarts Creek

Industry Certifications: Certified Personal Trainer

Nursing Services

- Level 1:** Health Science Education
- Level 2:** Anatomy and Physiology or
- Level 3:** Medical Therapeutics
- Level 4:** Nursing Education

Schools

Siegel
Stewarts Creek

Industry Certifications: Certified Nursing Assistant (CNA)

Emergency Services

Level 1: Health Science Education

Level 2: Medical Therapeutics

Level 3: Anatomy & Physiology and/or Emergency Medical Services

Level 4: Emergency Medical Services Practicum

Dual Enrollment Courses (MSCC): Coming soon

Schools

Rockvale

Industry Certifications: Certified Personal Trainer; OSHA 10

Hospitality & Tourism

Culinary Arts

- Level 1:** Culinary Arts I
- Level 2:** Culinary Arts II
- Level 3:** Culinary Arts III
- Level 4:** Culinary Arts IV

Dual Enrollment Courses (NSCC):
Local Dual Credit (NSCC):

Schools

Blackman
Oakland
Rockvale
Siegel
Smyrna
Stewarts Creek

Industry Certifications: ServSafe Food Manager

Hospitality & Tourism

- Level 1:** Hospitality & Tourism Exploration
- Level 2:** Hospitality Marketing
- Level 3:** Hospitality Management
- Level 4:** Event Planning & Management

Schools

Siegel

Industry Certifications: N/A

Human Services

Cosmetology

- Level 1:** Cosmetology I
- Level 2:** Cosmetology II
- Level 3:** Cosmetology III
- Level 4:** Cosmetology IV

Schools

LaVergne
Oakland
Stewarts Creek

Industry Certifications: TN Cosmetology & Barber Examiners – TN
Cosmetologists 1010

Dietetics and Nutrition

- Level 1:** Introduction to Human Studies
- Level 2:** Nutrition Across the Lifespans
- Level 3:** Nutrition Science & Diet Therapy or Psychology or Sociology
- Level 4:** Human Services Practicum

Dual Enrollment (MTSU): Dietetics and Nutrition*

Schools

Oakland
Riverdale*

Industry Certifications: TSIC: Dietetics and Nutrition

Human and Social Sciences

- Level 1:** Introduction to Human Studies
- Level 2:** Lifespan Development
- Level 3:** Family Studies or Psychology or Sociology
- Level 4:** Human Services Practicum

Schools

LaVergne
Riverdale

Industry Certifications: N/A

Information Technology

Coding

Level 1: Computer Science Foundations

Level 2: Coding I

Level 3: Coding II or Mobile App Development

Level 4: Coding Practicum

Advanced Placement: Computer Science
Principals*; Computer Science A**

Schools

Blackman*

Central**

Riverdale*

Rockvale

Smyrna

Networking Systems

Level 1: Computer Science Foundations

Level 2: Computer Systems

Level 3: Networking

Level 4: Cabling and Internetworking and/or IT
Clinical Internship

Local Dual Credit (TCAT): Administrative Office
Technology; Cybersecurity

Schools

Blackman

LaVergne

Rockvale

Siegel

Stewarts Creek

Industry Certifications: CompTIA IT Fundamentals; JavaScript Specialist

Industry Certifications: CompTIA IT Fundamentals; CompTIA A+; Cisco
Certified Entry Network Tech (CCENT); CompTIA Network +; Cisco Certified
Network Associate

Law, Public Safety, Corrections, & Security

Criminal Justice and Correction Services

Level 1: Criminal Justice I

Level 2: Criminal Justice II

Level 3: Criminal Justice III: Forensic Investigation

Level 4: Criminal Justice Practicum

Statewide Dual Credit: Criminal Justice*

Schools

Blackman
Eagleville
LaVergne
Riverdale*
Rockvale
Siegel
Smyrna
Stewarts Creek

Industry Certifications: N/A

Pre-Law

Level 1: Principles of Law

Level 2: Court Systems and Practices I

Level 3: Court Systems and Practices II

Level 4: Success Skills in Service Learning

Schools

Siegel

Industry Certifications: N/A

Marketing

Entrepreneurship

Level 1: Marketing and Management I: Principles

Level 2: Entrepreneurship

Level 3: Business & Entrepreneurship Practicum

Level 4: Virtual Enterprise International

Schools

Stewarts Creek

Industry Certifications: N/A

Marketing Management

Level 1: Marketing and Management I: Principles

Level 2: Marketing and Management II: Advanced Strategies

Level 3: Event Planning & Management or Social Media Marketing & Analytics

Level 4: Advertising & Public Relations

Schools

Blackman

Eagleville

LaVergne

Oakland

Riverdale

Rockvale

Siegel

Smyrna

Stewarts Creek

Industry Certifications: N/A

Supply Chain Management

Level 1: Foundations of Transportation, Distribution, and Logistics

Level 2: Supply Chain Management I

Level 3: Supply Chain Management II

Level 4: Work-Based Learning: Career Practicum

Schools

Blackman

Eagleville

Riverdale

Rockvale

Siegel

Smyrna

Stewarts Creek

Industry Certifications: N/A

Micropreneurship

Level 1: Marketing and Management I: Principles

Level 2: Entrepreneurship

Level 3: Business & Entrepreneurship Practicum

Level 4: Virtual Enterprise International

Schools

Stewarts Creek

Industry Certifications: N/A

Science, Technology, Engineering, & Mathematics (STEM)

Advanced STEM Applications

- Level 1:** STEM I: Foundations
- Level 2:** STEM II: Applications
- Level 3:** STEM III: STEM in Context
- Level 4:** STEM IV: STEM Practicum

Advanced Placement: AP Computer Science Principles

Industry Certifications: Certified Solidworks Associate (CSWA)- Academic; Autodesk Inventor Certified User

Schools

Central
Eagleville
Holloway
Stewarts Creek

Engineering

- Level 1:** Principles of Engineering and Technology
- Level 2:** Engineering Design I
- Level 3:** Engineering Design II
- Level 4:** Engineering Practicum

Advanced Placement: Computer Science Principles*
Dual Enrollment Courses (MTSU): Engineering**

Industry Certifications: Certified Solidworks Associate (CSWA)- Academic; Autodesk Inventor Certified User

Schools

Blackman*
Central**
Riverdale*

Technology

- Level 1:** Principles of Engineering and Technology
- Level 2:** Digital Electronics
- Level 3:** Robotics and Automated Systems
- Level 4:** Engineering Practicum

Industry Certifications: Certified Solidworks Associate (CSWA)- Academic; Autodesk Inventor Certified User; FANUC

Schools

Smyrna

Transportation, Distribution, & Logistics

Automotive Collision Repair

Level 1: Introduction to Collision Repair

Level 2: Collision Repair: Non-Structural

Level 3: Collision Repair: Painting & Refinishing

Level 4: Collision Repair: Damage Analysis, Estimating, & Customer Service

Local Dual Credit (TCAT): Collision Repair Technology

Industry Certifications: ASE Student Certification: Painting and Refinishing; I-CAR Refinish Technician Pro-Level1; I-CAR Non-Structural Technician Pro-Level 1; ASE Student Certification: Non-Structural Analysis/Repair

Schools

Stewarts Creek

Automotive Maintenance and Light Repair

Level 1: Maintenance and Light Repair I

Level 2: Maintenance and Light Repair II

Level 3: Maintenance and Light Repair III

Level 4: Maintenance and Light Repair IV

Local Dual Credit (TCAT): Automotive Technology

Industry Certifications: Automotive Service Excellence Student Certification: Maintenance & Light Repair

Schools

Holloway
Oakland
Riverdale
Smyrna

Aviation Flight

Level 1: Introduction to Aerospace

Level 2: Aviation I: Principles of Flight

Level 3: Aviation II: Advanced Flight

Level 4: Work-Based Learning: Career Practicum

Schools

Siegel

Industry Certifications: N/A