



TENNESSEE DEPARTMENT OF
EDUCATION
DIVISION OF CAREER AND TECHNICAL EDUCATION

The revised Programs of Study and corresponding courses are outlined below by Career Cluster. For more information on the specific courses, please visit our career cluster webpage at

https://www.tn.gov/content/dam/tn/education/ccte/cte/2022-23_Course%20and%20Program%20of%20Study%20Revisions.pdf

Williamson County
Schools CTE
Programs of Study

2022-2023

This guide indicates Programs of Study (POS) being offered in WCS as well as certifications/credentials that students may obtain through in each POS when available. Each POS is aligned with one of the state approved 16 Career Clusters.

Notes:

- * Indicates a dual credit opportunity
- ** Indicates dual enrollment opportunity
- **SPOS** indicates Special Program of Study
- *CTE courses satisfying additional graduation requirements*
- **WBL may substitute for a Level 3 or Level 4 course in any Program of Study and complete a student's elective focus with prior approval**

Advanced Manufacturing

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential/ Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
|---|---|-------------------------------|--|---|---|----------------------|---|
| Mechatronics CSCC Engineering Systems Technology A.A.S Fairview | Principles of Manufacturing C13H05 NIMS Industry Certification And CPT Industry Certification | Digital Electronics C13H07 | Mechatronics I C13H16 * Dual Credit Opportunity through CSCC or Mechatronics Dual Enrollment (CSCC) C13H21 *Mechatronics System Assistant Industry Certification | Mechatronics II C13H17 * Dual Credit Opportunity through CSCC or Mechatronics Dual Enrollment (CSCC) C13H21 ** Manufacturing Practicum 5926 | NIMS Industry Certification CPT Industry Certification Level I Siemens Certified Mechatronics System Assistant Industry Certification | Skills USA or TSA | ** See specific course sequence ending in CSCC Engineering Systems Technology A.A.S Degree or Engineering Systems Technology CSCC Technical Certificate |

Agriculture and Veterinary Science

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential/ Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
|---|--|--|--|--|--|------|--|
| Veterinary and Animal Science Page | Agriscience C18H19 <i>Lab Science and elective focus credit only for students completing a Veterinary and Animal Science or Horticulture Science Program of Studies</i> | Small Animal Science Technologies C18H20 | Large Animal Science Technologies C18H27 | Veterinary Science Technologies C18H21 <i>Lab Science and elective focus credit only for students completing a Veterinary Animal Science Program of Studies</i> | Animal Science Industry Certification | FFA | |
| Horticulture Science Fairview | Agriscience C18H19 <i>Lab Science and elective focus credit only for students completing Veterinary and Animal Science or Horticulture Science Program</i> | Principles of Plant Sciences and Hydroculture C18H30 | Greenhouse Management C18H17 | Landscaping and Turf Science C18H16 <i>Satisfies one fine arts credit required for graduation</i> | Commercial Pesticide Industry Certification Tennessee Industry Specific Certification | FFA | |

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|---------------------|-----------------------|---|--|---|--|-----|--|
| Agribusiness | Agriscience C18H19 | Principles of Farm and Agribusiness Management C18H41 | | Agricultural Business and Finance C18H11 | | FFA | |
| Page | | | | | | | |

Architecture, Engineering, and Construction

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential/ Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
|--|--|---|--|--|--------------------------------------|------------------|---|
| Architecture, Engineering and Design Centennial Franklin Independence Ravenwood | Architectural & Engineering Design I C17H13 | Architectural & Engineering Design II C17H14 | Architectural & Engineering Design III C17H10 ** Engineering 2100 at CHS, RHS, PHS & IHS (MTSU) DE Course Code 4071 | Honors Engineering Practicum: Engineering Your World C21H14 RHS only ** Engineering 1100 at RHS (MTSU) DE Course Code C17H35 Geographic Information Systems CHS only | AutoCAD Certified User | SkillsUSA or TSA | |

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|---|--|--|---|--|---|------------------|
| <p>Structural Systems</p> <p>Fairview</p> | <p>Fundamentals of Construction C17H15</p> | <p>Structural Systems I C17H26</p> | <p>Structural Systems II C17H27</p> | <p>Construction Practicum C17H22</p> | <p>NCCER Core Curriculum</p> <p>OSHA 10 Industry Certifications</p> <p>NCCER Carpentry Level I Industry Certification</p> <p>NCCER Carpentry Level II</p> <p>OSHA 30 Construction Industry Certifications</p> | <p>SkillsUSA</p> |
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Arts, Audio/Visual Technology, & Communications

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential / Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
|---|--|---|--|--|--|-----------|--|
| Digital Arts and Design Franklin Independence Renaissance Summit | Digital Arts & Design I C11H06 <i>Fine Art and elective focus credit only for students completing a Digital Arts and Design Program of Studies</i> | Digital Arts and Design II C11H05 | Digital Arts and Design III C11H16 ** EMC1050 at IHS & SHS (MTSU) DE Course Code 4077 * Dual Credit Opportunity through Nossi * Dual Credit Opportunity through CSCC AP Portfolio Submission for possible AP credit | Digital Arts and Design III C11H16 ** EMC1050 at IHS & SHS (MTSU) DE Course Code 4077 or Applied Arts Practicum C11H07 | Adobe Certified Associate - Creative Suite Apple Certified Pro Adobe Certified Associate Premier Pro | SkillsUSA | |
| POS Music Industry Audio Production Renaissance | Music Industry Audio Production I 6042 23021 | Music Industry Audio Production II 6042 23022 | Music Industry Audio Production III 6042 23023 | | ProTools | SkillsUSA | |

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|---|---|--|---|--|--|---------------------|--|
| Television and Film Production AV Production Brentwood Centennial Fairview Franklin Independence Page Nolensville Ravenwood Summit | Television and Film Production/A V Production I C11H01 | Television and Film Production/A V Production II C11H02 | Television and Film Production/A V Production III C11H03 * VFP 1060 at BHS, CHS, FHS, FVHS, IHS, PHS, RHS & SHS (MTSU) DE Course Code 4078 * Dual Credit Opportunity through CSCC | Television and Film Production/A V Production III C11H03 or Applied Arts Practicum C11H07 | | SkillsUSA or TSA | |
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Business Management & Administration

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential / Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
|--|---|---|--|---|----------------------------|------|--|
| Business Management Brentwood | Computer Applications 5891 * Dual Credit Opportunity through CSCC | Accounting I C12H16 * Dual Credit Opportunity through CSCC | Business Management C12H17 * BCED 1400 at BHS (MTSU) DE Course Code 4083 | Virtual Enterprise International C12H23 <i>Economics and elective focus credit only for students completing a Business Management & Administration, or Marketing Management Program of Studies</i> or Business & Entrepreneurship Practicum C12H35 | | DECA | |

Finance

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential / Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
|---|--|----------------------|---|---------|--|------|--|
| Accounting Ravenwood / Summit (?) Missing level 1? | Accounting I C12H00 *Dual Credit Opportunity through CSCC | Accounting II C29H01 | Statistics G02H37 or AP Statistics G02H26 | | Financial Accounting Certification through Precision | DECA | |

Education and Training

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential/ Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
|--|---|---|--|--|--|-------|--|
| Teaching as a Profession K-12 Centennial Fairview | Introduction to Teaching as a Profession C32H## | Teaching as a Profession I C32H01 | Teaching as a Profession II C32H02 | Teaching as a Profession III C32H26 or Work Based Learning / Internship 6105 | | FCCLA | |
| Early Childhood Education Careers Summit | Early Childhood Education Careers I H32H06 | Early Childhood Education Careers II C32H07 | Early Childhood Education Careers III C32H08 | Work Based Learning / Internship 6105 | TECTA Orientation/ Certification CDA Industry Certification | FCCLA | |
| Early Childhood Education Careers Independence | Early Childhood Education Careers I H32H06 | Early Childhood Education Careers II C32H07 | Early Childhood Education Careers III C32H08 | Teaching as a Profession I C32H01 | TECTA Orientation/ Certification CDA Industry Certification | FCCLA | |
| Early Childhood Education Careers Franklin | Early Childhood Education Careers I H32H06 | Early Childhood Education Careers II C32H07 | Teaching as a Profession I C32H01 | | TECTA Orientation/ Certification CDA Industry Certification | FCCLA | |

Hospitality and Tourism

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential / Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
|--|--|--|---|---|--|-------|--|
| Culinary Arts Franklin Summit | Culinary Arts I C16H06 | Culinary Arts II C16H07 | Culinary Arts III C16H08 | Work Based Learning / Internship 6105 | ServSafe Food Manager Industry Certification ABC Card ProStart Serve-Safe | FCCLA | |
| Culinary Arts Nolensville | Culinary Arts I C16H06 * Dual Credit Intro to Hospitality 1030 (CSCC) | Culinary Arts II C16H07 * Dual Credit Sanitation and Food Safety 1400 (CSCC) * Dual Credit Hospitality Sales and Marketing 1170 (CSCC) | Culinary Arts III C16H08 Dual Credit Culinary Fabrication 1425 (CSCC) * Dual Credit The Guest Experience 1300 (CSCC) | Culinary Arts IV C16H09 * Dual Credit Supervision in Hospitality Industry 1130 (CSCC) Dual Credit Culinary Capstone Course 2390 (CSCC) | ServSafe Food Manager Industry Certification ABC Card ProStart Serve-Safe | FCCLA | |

Human Services

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential/Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
|---|--|---|--|---|---|-----------|--|
| Cosmetology Centennial | Cosmetology I C19H12 * Transfer Hours to Empire Beauty, Hair Academy Franklin, Georgia Career Institute, Paul Mitchell | Cosmetology II C19H14 * Transfer Hours to Empire Beauty, Hair Academy Franklin, Georgia Career Institute, Paul Mitchell | Cosmetology III C19H13 * Transfer Hours to Empire Beauty, Hair Academy Franklin, Georgia Career Institute, Paul Mitchell | Cosmetology IV C19H21 Transfer Hours to Empire Beauty, Hair Academy Franklin, Georgia Career Institute, Paul Mitchell | Accrue state board hours for post-secondary credit TN Board of Cosmetology & Barbering TN Master Barber 1010 Industry Certification | SkillsUSA | |
| Sports Health and Nutrition Science Independence | Nutrition Across the Lifespan C19H15 | Nutrition Science and Diet Therapy C19H16 ** DE Enrollment opportunity through MTSU (NFS 2220) Satisfies one lab science credit for graduation | Human Services Practicum C19H20 ** DE Enrollment opportunity through MTSU (COMM 2220) | | Tennessee Specific Industry Certification – Dietetics and Nutrition Industry Certification | FCCLA | |

Information Technology (page 1 of 3)

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential / Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
|---|--|--|--|--|----------------------------|-----------|---|
| Web Design & Mobile Technologies Tech Certificate Centennial | Coding I C10H14 * Dual Credit Opportunity through CSCC | Web Design Foundations C10H16 * Dual Credit Opportunity through CSCC | Fall Semester CITC 2361 Adv. Web Design & Development ** DE Opportunity through CSCC Spring Semester CITC 1373 IOS APP Development ** DE Opportunity through CSCC | Fall Semester CITC 1372 Android APP Development Spring Semester CITC 2372 Mobile Security ** DE Opportunity through CSCC | | SkillsUSA | * See specific course sequence ending in CSCC Web Design & Mobile Technologies Tech Certificate |

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| <p>Coding</p> <p>Ravenwood</p> | <p>Coding I C10H14</p> <p>* Dual Credit Opportunity through CSCC</p> | <p>Coding II C10H15</p> <p>**INFS 2600 at BHS, FHS, IHS, RHS (MTSU)</p> <p>DE Course Code 4113</p> | <p>AP Computer Science Principles G02H44</p> <p>or</p> <p>AP Computer Science G02H45</p> <p><i>AP computer Science 3635 Math course, AP focus credit and information technology focus credit</i></p> | <p>AP Computer Science Principles G02H44</p> <p>or</p> <p>AP Computer Science G02H45</p> <p><i>AP computer Science 3635 Math course, AP focus credit and information technology focus credit</i></p> <p>or</p> <p>Coding Practicum/ Game Programming C10H08</p> | <p>Comp TIA A+</p> <p>Microsoft Technology Associate Software Development Industry Certification</p> | <p>SkillsUSA</p> | |
| <p>Coding/ Autonomous Vehicles</p> <p>Brentwood Franklin</p> | <p>Coding I C10H14</p> <p>* Dual Credit Opportunity through CSCC</p> | <p>Honors Coding Practicum I/ Autonomous Vehicles C10H08</p> | <p>Honors Coding Practicum II/ Autonomous Vehicles C10H08</p> | <p>AP Computer Science G02H45</p> <p><i>AP computer Science 3635 Math course, AP focus credit and information technology focus credit</i></p> | | <p>SkillsUSA</p> | |

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Information Technology (page 2 of 3)

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| Coding Brentwood | Computer Science Foundations C10H11 | Coding I C10H14 * Dual Credit Opportunity through CSCC | Coding II C10H15 ** INFS 2600 at BHS, FHS, IHS, RHS (MTSU) DE Course Code 4113 | AP Computer Science G02H45 <i>AP computer Science Math course, AP focus credit and information technology focus credit</i> or AP Computer Science Principles G02H44 or Honors Programing and Software Development Practicum 5908 | CompTIA IT Fundamentals Industry Certification Comp TIA A+ Microsoft Technology Associate Software Development Industry Certification | SkillsUSA | |
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Information Technology (page 3 of 3)

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| Coding Brentwood | Coding I C10H14 * Dual Credit Opportunity through CSCC | AP Computer Science Principles G02H44 | Coding II C10H15 ** INFS 2600 at BHS, FHS, IHS, RHS (MTSU) DE Course Code 4113 | AP Computer Science G02H45 <i>AP computer Science 3635 Math course, AP focus credit and information</i> | Comp TIA A+ Microsoft Technology Associate Software Development Industry Certification | SkillsUSA | |
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|---|------------------------------|---|---|--|--|-----------|--|
| Criminal Justice (Law Enforcement Services) Ravenwood | Criminal Justice I C30H00 | Criminal Justice II C30H01 ** CJA 1100, 2200, 2600 DE Course Code 4117 FHS & RHS (MTSU) | Criminal Justice III: Investigation C30H02 ** CJA 1100, 2200, 2600 DE Course Code 4117 FHS & RHS (MTSU) | | Dispatch & Security Certification for Emergency Tele-communication Unarmed Security Guard | SkillsUSA | |
| SPOS Criminal Justice (Law Enforcement Services) Centennial | Criminal Justice I C30H00 | Criminal Justice II C30H01 | Criminal Justice III: Investigation C30H02 ** or Networking I DE Course Code 4114 & Cyber Security DE Course Code 4119 ** DE CSCC | Criminal Justice III: Investigation C30H02 ** or Networking I DE Course Code 4114 & Cyber Security DE Course Code 4119 ** DE CSCC | Dispatch & Security Certification for Emergency Tele-communication Unarmed Security Guard | SkillsUSA | |
| Pre-Law Franklin | Pre-Law I C30H08 | Pre-Law II C30H09 | Pre-Law III C30H10 | Pre-Law Practicum C30H19 or AP U.S. Government and Politics C04H26 | | SkillsUSA | |

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Marketing (page 1 of 3)

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential / Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
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| <p>Marketing Management</p> <p>Centennial Summit</p> | <p>Marketing and Management, I Principles C31H00</p> <p>* Dual Credit Opportunity through CSCC</p> <p><i>Economics credit for students completing any CTE Program of Study</i></p> | <p>Marketing and Management Principles II: Advanced Strategies C31H01</p> <p>* Dual Credit Opportunity through CSCC</p> | <p>Event Planning and Management C16H12</p> | <p>Entrepreneurship 5934</p> <p>*Dual Credit Opportunity through CSCC</p> <p><i>Economics credit for students completing any CTE Program of Study</i></p> | | <p>DECA</p> | |
| <p>Marketing Management</p> <p>Franklin</p> | <p>Marketing and Management, I Principles C31H00</p> <p>* Dual Credit Opportunity through CSCC</p> <p><i>Economics credit for students completing any CTE Program of Study</i></p> | <p>Marketing and Management Principles II: Advanced Strategies C31H01</p> <p>* Dual Credit Opportunity through CSCC</p> | <p>Social Media & Analytics C31H02</p> | <p>Advertising & Public Relations C31H03</p> <p>Work-Based Learning: Career Practicum</p> <p>61</p> | | <p>DECA</p> | |

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| Marketing Management Independence | Marketing and Management I Principles C31H00 * Dual Credit Opportunity through CSCC <i>Economics credit for students completing any CTE Program of Study</i> | Marketing and Management II: Principles II: Advanced Strategies C31H01 * Dual Credit Opportunity through CSCC | Retail Operations C31H04 or Entrepreneurship 5934 * Dual Credit Opportunity through CSCC <i>Economics credit for students completing any CTE Program of Study</i> | | | DECA | |
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Marketing (page 2 of 3)

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|--|--|--|---------------------------------------|--|--|------|--|
| Marketing Management Page | Marketing and Management I Principles C31H00 * Dual Credit Opportunity through CSCC <i>Economics credit for students completing any CTE Program of Study</i> | Marketing and Management II: Principles II: Advanced Strategies C31H01 * Dual Credit Opportunity through CSCC | Advertising & Public Relations C31H03 | Entrepreneurship C31H05 * Dual Credit Opportunity through CSCC <i>Economics credit for students completing any CTE Program of Study</i> | | DECA | |
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|---|--|---|---|--|--|-------------|--|
| <p>Marketing Ravenwood</p> | <p>Marketing and Management I Principles C31H00 * Dual Credit Opportunity through CSCC <i>Economics credit for students completing any CTE Program of Study</i></p> | <p>Social Media and Analytics C31H02</p> | <p>Advertising & Public Relations C31H03</p> | <p>Retail Operations C31H04 * Dual Credit Opportunity through CSCC <i>Economics credit for students completing any CTE Program of Study</i></p> | | | |
| <p>Marketing Nolensville</p> | <p>Marketing and Management I Principles C31H00 * Dual Credit Opportunity through CSCC <i>Economics credit for students completing any CTE Program of Study</i></p> | <p>Marketing and Management II: Advanced Studies C31H01 <i>Economics credit for students completing any CTE Program of Study</i></p> | <p>Advertising/ Public Relations C31H03 <i>Economics credit for students completing any CTE Program of Study</i></p> | <p>Work Based Learning Career Practicum 6105</p> | | <p>DECA</p> | |

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Marketing (page 3 of 3)

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|---|---|---|--|--|--|------|--|
| Entrepreneurship Brentwood | Marketing and Management I Principles C31H00 * Dual Credit Opportunity through CSCC <i>Economics credit for students completing any CTE Program of Study</i> | Entrepreneurship C31H05 * Dual Credit Opportunity through CSCC <i>Economics credit for students completing any CTE Program of Study</i> | Business & Entrepreneurship Practicum C12H35 | | | DECA | |
| Entrepreneurship and Innovation Center The EIC is located at Franklin High School Annex | Introduction to Entrepreneurship C31H23 | Entrepreneurship C31H05 | EIC Practicum/ Work-Based Learning: Career Practicum C12H35 | | | | |

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Medical Sciences (page 1 of 2)

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential / Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
|--|------------------------------------|-------------------------------|--|--|---|------|--|
| Diagnostic Services / Pre-Med Page | Health Science Education C14H14 | Diagnostic Medicine C14H12 | Standard or Honors Anatomy and Physiology G03H31 or C14H09 <i>Lab Science and elective focus credit only for students completing a</i> | Cardiovascular Services C14H18 PHS | Certified EKG Technician Industry Certification | HOSA | |

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| | | | <i>Medical Science Program of Studies</i> | | | | |
| Diagnostic Services/ Pre-Med Independence | Health Science Education C14H14 | Diagnostic Medicine C14H12 | Honors Anatomy and Physiology G03H31 or C14H09 <i>Lab Science and elective focus credit only for students completing a Medical Science Program of Studies</i> | Honors Nursing Education C14H16 or Clinical Internship C14H11 | Certified Nursing Assistant Industry Certification | HOSA | |
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Medical Sciences (page 2 of 2)

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|---|---|--|--|--|--|-------------|--|
| <p>Pre-Med / Biomedical Science (PLTW)</p> <p>Ravenwood Franklin</p> | <p>Honors Principles of Biomedical Science 23101</p> <p>(Must of had Biology or taking it at the same time)</p> <p>BioSTEM I (C21H07)</p> | <p>Honors Human Body Systems 23102</p> <p>Lab Science and elective focus credit only for students completing the PLTW Biomedical Science Program of Studies</p> <p>BioSTEM II (C21H08)</p> | <p>Honors Medical Interventions</p> <p>BioSTEM III (C21H09)</p> | <p>WBL</p> <p>BioSTEM Practicum (C21H10)</p> | | <p>HOSA</p> | <p>AP Biology</p> <p>AP Psychology</p> <p>AP Chemistry 3225</p> <p>AP Physics 3238</p> |
| <p>Nursing (Therapeutic Nursing Services)</p> <p>Centennial Nolensville Page Ravenwood</p> | <p>Health Science Education 5998</p> | <p>Honors Medical Therapeutics 5999</p> <p>Certified Clinical Medical Assistant Industry Certification (if Medical Therapeutics is Followed by Clinical Internship)</p> | <p>Standard or Honors Anatomy and Physiology 3251</p> <p>Lab Science and elective focus credit only for students completing a Medical Science Program of Studies</p> | <p>Clinical Internship 5993</p> <p>or</p> <p>Honors Nursing Education 6000</p> | <p>Certified Clinical Medical Assistant Industry Certification</p> <p>Certified Nursing Assistant Industry Certification</p> | <p>HOSA</p> | |

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|--|--------------------------|--|--|--|---|------|--|
| Sport and Human Performance Independence Fairview Nolensville Summit Page Ravenwood | Health Science Education | Honors Rehabilitation Careers | Standard or Honors Anatomy and Physiology | Clinical Internship 5993 | Certified Personal Trainer Industry Certification | HOSA | |
| | 5998 FvHS | 5990 IHS Honors Anatomy and Physiology FvHS | Honors Anatomy and Physiology IHS, NHS,RHS Honors Rehabilitation Careers 5990 IHS FvHS RHS <i>Lab Science and elective focus credit only for students completing a Medical Science Program of Studies</i> | IHS, SHS, NHS, FvHS,RHS Exercise Science 6170 FVHS, NHS,PHS, RHS Certified Personal Trainer Industry Certification (if Exercise Science is Followed by Clinical Internship) | | | |

Science, Technology, Engineering, & Mathematics (page 1 of 2)

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential / Certification | CTSO | Recommended Elective(s), not approved for Elective Focus |
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| <p align="center">STEM Research: Mechanical Engineering</p> <p align="center">Brentwood Franklin</p> | <p>Coding I 6098</p> | <p>Honors Engineering Through Service Learning 5921</p> <p align="center">or</p> <p>AP Computer Science 3635</p> | <p>AP Physics 3238</p> | <p>Honors STEM Research 6147</p> | | <p>TSA</p> | <p>AP Environment al Science 3236</p> |
| <p align="center">STEM Research: Chemical Engineering</p> <p align="center">Brentwood Franklin</p> | <p>Coding I 6098</p> | <p>Honors Engineering Through Service Learning 5921</p> <p align="center">or</p> <p>AP Computer Science 3635</p> | <p>AP Chemistry 3225</p> | <p>Honors STEM Research 6147</p> | | <p>TSA</p> | <p>AP Environment al Science 3236</p> |
| <p align="center">STEM Research: Biomedical Engineering</p> <p align="center">Brentwood</p> | <p>Coding I 6098</p> | <p>Honors Engineering Through Service Learning 5921</p> <p align="center">or</p> <p>AP Computer Science 3635</p> | <p>AP Biology 3217</p> | <p>Honors STEM Research 6147</p> | | <p>TSA</p> | <p>AP Environmental Science 3236</p> |

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| Engineering by Design | Foundations of Technology (EBD) 5917 | Technological Design (EBD) 5885 | Advanced Design Applications (EBD) 5920 | Work-Based Learning: Career Practicum 6105 | Autodesk Certified User | TSA | |
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Science, Technology, Engineering, & Mathematics (page 2 of 2)

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| Engineering Project Lead the Way | Honors Introduction to Engineering Design (PLTW) 6054 | Honors Principles of Engineering (PLTW) 6052 <i>Lab science and elective focus credit only for students completing an Engineering Project Lead the Way Program of Studies</i> | Honors Civil Engineering (PLTW) 6056 and Honors Digital Electronics (PLTW) 6053 | Honors Engineering Design and Development (PLTW) 6059 ** ENGR 2100 (MTSU) DE Course Code 4071 or Aero (PLTW) | Autodesk Certified User | SkillsUSA or TSA | |
| Page Summit | | | | | | | |
| Engineering and Unmanned Aerial Systems (UAS) | Principles of Engineering Technology 5924 | Engineering Design I 6139 | Engineering Design II 6140 | Work-Based Learning: Career Practicum focused on Unmanned Aerial Systems 6105 * Dual Credit Opportunity through MTSU OR Honors Engineering Practicum C21H14 | Remote Pilot Certification FAA Part 107 | | |
| Nolensville | | | | | | | |

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|---|--|---|--|--|--|--|--|
| Technology (Robotics) Ravenwood | Principles of Engineering Technology 5924 | Coding I or AP Computer Science | Robotics & Automated Systems 3153 | Engineering Practicum or Engineering Your World or Physics | | | |
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Transportation, Distribution, & Logistics

| Program of Study | Level 1 | Level 2 | Level 3 | Level 4 | Credential / Certificati on | CTSO | Recommended Elective(s), not approved for Elective Focus |
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| <p>Automotive Collision Repair</p> <p>Franklin</p> | <p>Introduction to Collision Repair 6172</p> | <p>Collision Repair: Non-Structural 6062</p> | <p>Collision Repair: Painting & Refinishing 6063</p> <p>Automotive Service Excellence Student Certification: Painting and Refinishing Industry Certification</p> | <p>Collision Repair: Damage Analysis, Estimating, & Customer Service 6149</p> | <p>I-CAR Refinish Technician ProLevel 1</p> <p>I-CAR Non-Structural Technician ProLevel 1</p> <p>Automotive Service Excellence Student Certification: Nonstructural Analysis/Repair Industry Certification</p> <p>Automotive Service Excellence Student Certification: Painting and Refinishing Industry Certification</p> | <p>SkillsUSA</p> | <p>Internships at level 3 and level 4</p> |
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