

CAREER AND TECHNICAL EDUCATION GRADES 7-12

<u>CONTEXTUAL ACADEMICS</u>	<u>Abbreviated/Code</u>	<u>Report as Course Code</u>	<u>CTE</u>	<u>Endorsement/Employment Standards</u>
<i>HQ - English IV (3)</i>	<i>Eng 12 30052</i>	<i>3005</i>	<i>CA</i>	<i>007, 407</i>
<i>(3) Teachers who teach this course must hold proper endorsement and have attended the state-approved, five-day training.</i>				
<i>HQ - Algebra I (2)</i>	<i>Alg 1 31022</i>	<i>3102</i>	<i>CA</i>	<i>013, 413</i>
<i>(2) Teachers who teach this course must hold proper endorsement and have attended state-approved, five-day training.</i>				
<i>HQ - Geometry (3)</i>	<i>Geom 31082</i>	<i>3108</i>	<i>CA</i>	<i>013, 413</i>
<i>(3) Teachers who teach this course must hold proper endorsement and have attended state-approved, five day training.</i>				
<i>HQ -Biology I(7)</i>	<i>Biol I 32102</i>	<i>3210</i>	<i>CA</i>	<i>015, 211, 415</i>
<i>(7) Teachers who teach this course must hold proper endorsement and have attended the state-approved, five-day training.</i>				
<i>HQ - Principles of Technology I (8)</i>	<i>PTI 3220</i>	<i>3220</i>	<i>CA</i>	<i>016, 017, 212, 214, 414, 416, 417</i>
<i>(8) Teachers who teach this course must hold proper endorsement and have attended the state-approved, five-day training. This course may substitute for one of the physical science credits required for graduation.</i>				
<i>HQ - Principles of Technology II (9)</i>	<i>PTII 3256</i>	<i>3220</i>	<i>CA</i>	<i>016, 017, 212, 214, 414, 416, 417</i>
<i>(9) Teachers who teach this course must hold proper endorsement and have attended the Principles of Technology I state-approved, five-day training. This course satisfies one science credit required for graduation. The completion of Principles of Technology I and II is equivalent to Physics I.</i>				

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

CAREER AND TECHNICAL EDUCATION GRADES 7-12

BT BUSINESS TECHNOLOGY EDUCATION	Abbreviation/Code	CTE	Endorsement/Employment Standards	
<i>eBusiness Communication</i>	<i>eBus</i>	<i>3704</i>	<i>BT</i>	<i>031, 032, 034, 037, 041, 055, 056, 057, 201, 203, 204, 311, 430, 432, 433, 434, 435, 436, 474, 475</i>
<i>Business Management</i>	<i>Bus Mgt</i>	<i>3707</i>	<i>BT</i>	<i>039, 056, 057, 201, 202, 204, 311, 430, 433, 435, 436, 474, 475</i>
<i>Keyboarding</i>	<i>Keybd</i>	<i>3710</i>	<i>BT</i>	<i>031, 032, 037, 041, 055, 056, 057, 203, 204, 311, 432, 433, 434, 435, 436, 474, 475</i>
<i>Keyboarding/Document Layout and Design</i>	<i>KeyDoc Design</i>	<i>3727</i>	<i>BT</i>	<i>031, 032, 037, 041, 055, 056, 057, 203, 204, 311, 432, 433, 434, 435, 436, 474, 475</i>
<i>Spreadsheet Applications</i>	<i>Spr Sheet App</i>	<i>3729</i>	<i>BT</i>	<i>030, 033, 037, 041, 054, 055, 056, 057, 201, 203, 204, 311, 430, 432, 434, 435, 436, 474, 475</i>
<i>Integrated Input Technologies</i>	<i>Int Input Tech</i>	<i>3730</i>	<i>BT</i>	<i>037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 474, 475</i>
<i>Database Design/Management</i>	<i>Data Mgt</i>	<i>3735</i>	<i>BT</i>	<i>030, 037, 041, 054, 055, 056, 057, 201, 203, 204, 311, 430, 432, 434, 435, 436, 474, 475</i>
<i>Administrative Management</i>	<i>Adm Mgt</i>	<i>3737</i>	<i>BT</i>	<i>037, 041, 054, 055, 056, 057, 203, 204, 311, 434, 435, 436, 474, 475</i>
<i>Desktop Publishing</i>	<i>DT Pbl</i>	<i>3741</i>	<i>BT</i>	<i>037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 474, 475</i>
<i>Interactive Multimedia Presentation</i>	<i>Int Mul Pres</i>	<i>3746</i>	<i>BT</i>	<i>031, 032, 037, 041, 055, 056, 057, 203, 204, 311, 431, 432, 433, 434, 435, 436, 474, 475</i>
<i>HQ - International Business/Marketing (1)</i>	<i>Int Bus Mkt</i>	<i>3750</i>	<i>BT</i>	<i>039, 052, 054, 056, 057, 201, 202, 204, 311, 430, 435, 436, 471, 472, 474, 475</i>
<i>(1) International Business/Marketing satisfies one-half credit in Economics</i>				
<i>International Business/Marketing</i>	<i>Int Bus Mkt</i>	<i>3754</i>	<i>BT</i>	<i>039, 052, 054, 056, 057, 201, 202, 204, 311, 430, 435, 436, 471, 472, 474, 475</i>
<i>Keyboarding/Document Formatting</i>	<i>KeyDocForm</i>	<i>3775</i>	<i>BT</i>	<i>031, 032, 037, 041, 055, 056, 057, 203, 204, 311, 432, 433, 434, 435, 436, 474, 475</i>
<i>Networking Essentials</i>	<i>Net Ess</i>	<i>3778</i>	<i>BT</i>	<i>037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475</i>
<i>Computer Operating Systems and Hardware</i>	<i>CompOper</i>	<i>3763</i>	<i>BT</i>	<i>037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475 and CompTIA's A+, or NetPlus or CIW Associate Foundations or CISCO Certification</i>
<i>Information Technology Foundations</i>	<i>InfoTechFou</i>	<i>3764</i>	<i>BT</i>	<i>037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475 and CompTIA's A+, or CISCO Certification</i>
<i>Accounting I</i>	<i>Acct I</i>	<i>3779</i>	<i>BT</i>	<i>030, 054, 055, 201, 203, 311, 430, 434, 435, 436, 474, 475</i>
<i>Accounting II</i>	<i>Acct II</i>	<i>3780</i>	<i>BT</i>	<i>030, 054, 055, 201, 203, 311, 430, 434, 435, 436, 474, 475</i>
<i>Career Connections</i>	<i>Car Con</i>	<i>3716</i>	<i>BT</i>	<i>031, 034, 037, 041, 054, 055, 056, 057, 201, 203, 204, 311, 430, 432, 434, 435, 436, 475, 432, 050, 450</i>

CTE -- Career and Technical Education Program Classification

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BT BUSINESS TECHNOLOGY EDUCATION	Abbreviation/Code	CTE	Endorsement/Employment Standards	
Financial Planning	Fin Plan	3717	BT	030, 033, 039, 054, 201, 204, 311, 430, 435, 436, 474, 475
Computer Applications	Comp App	3718	BT	037, 039, 041, 055, 057, 202, 203, 204, 311, 430, 431, 432, 434, 435, 436, 474, 475, 477
HQ- American Business/Legal Systems (2) <i>(2) Satisfies one-half credit in Government</i>	BusLegSyst	3719	BT	035, 054, 202, 204, 311, 430, 435, 436, 474, 475
American Business/Legal Systems	Amer Legal	3726	BT	035, 054, 202, 204, 311, 430, 435, 436, 474, 475
HQ- Business Economics (3) <i>(3) Satisfies one-half credit in Economics</i>	Bus Econ	3755	BT	039, 054, 201, 204, 311, 430, 435, 436, 474, 475
Business Economics	Bus Econ	3765	BT	039, 054, 201, 204, 311, 430, 435, 436, 474, 475
Banking and Finance	Bank Fin	3756	BT	030, 033, 039, 054, 201, 204, 311, 430, 435, 436, 474, 475
Virtual Enterprise International (4)	Vir Ent Int	3757	BT	037, 039, 041, 052, 055, 056, 057, 201, 202, 203, 204, 311, 430, 434, 435, 436, 471, 472, 474, 475
<i>(4) Satisfies one half credit in Economics. This course is trademarked by the New York City Department of Education and has an associated fee. Prior approval must be obtained from the Business consultant as well as requisite training before offering this course.</i>				
HQ – Virtual Enterprise International (5)	Vir Ent Int	3762	BT	037, 039, 041, 052, 055, 056, 057, 201, 202, 203, 204, 311, 430, 434, 435, 436, 471, 472, 474, 475
<i>(5) Satisfies one half credit in Economics. This course is trademarked by the New York City Department of Education and has an associated fee. Prior approval must be obtained from the Business consultant as well as requisite training before offering this course.</i>				
Web Design Essentials	Web Des Ess	3768	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475
Web Design Applications	Web Des App	3769	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475
Website – Foundations	Web Found	3758	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475, 070, 230, 470 and CIW Associates Foundations Certification
Webpage Design – Site Designer	Web Site Des	3759	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475, 070, 230, 470 and CIW Site Designer Certification
Webpage Design –eCommerce	Web Des eCom	3760	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475, 070, 230, 470 and CIW eCommerce Designer Certification
JAVA	Java Pro	3761	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475
Work Based Learning/Supervision Period (6)	WB	3798	BT	Any Business Technology Endorsement
<i>(6) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement and have completed the state-approved 40-hour training and internship or the state-approved course equivalent.</i>				
Special Course Business Technology Education	Spec Cr	(7)	BT	Any Business Technology Endorsement
<i>(7) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				
Personal Finance	Per Fin	3766	BT	030, 032, 033, 034, 035, 036, 037, 038, 039, 041, 054, 055, 056, 057, 201, 202, 203, 204, 311, 430, 431, 432, 433, 434, 435, 436, 474, 475

TEE: TECHNOLOGY ENGINEERING EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

<i>Foundations of Technology</i>	<i>FOT</i>	<i>3835</i>	<i>TEE</i>	<i>007, 013, 014, 015, 016, 017, 018, 070, 105, 210, 211, 212, 213, 214, 230, 231, 232, 233, 407, 413, 414, 415, 416, 417, 418, 440, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (046 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079) OR Any T & I teacher who holds a bachelor’s degree and a professional occupational license that has completed the state-approved, five-day training prior to teaching this course, and meets the qualifications * and ** for trade and industrial education. See notes below.</i>
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Instructors who teach this course must hold proper endorsement and have completed the state-approved, five-day training for the courses on the preceding page prior to teaching the course. Instructors having the following endorsements must attend the training: (007, 013, 014, 015, 016, 017, 018, 105, 210, 211, 212, 213, 214, 407, 413, 414, 415, 416, 417, 418, 460, 461, 477 and 480). In addition, instructors having only endorsements (007, 013, 014, 015, 016, 017, 018, 070, 105, 211, 212, 214, 413,414, 415, 416, 417, 460, 461, 477, and 480) must complete the state-approved, two-day facilities management/safety training prior to teaching the course. Instructors are required to attend training only one time.

Any technology engineering education instructor who was teaching technology engineering education in Tennessee prior to September of 1980 and each year thereafter including the current year and has at least two (2) of the following endorsements in technology education may teach the Technology Engineering Education course listed above, (042, 043, 044, 045, 046, 047, 077, 078, and 079] This is not a grandfathered area

** Trade and Industrial Education instructors who holds a Bachelor’s degree and a professional occupational license (have already completed the 18 semester hours for certification) must complete the state –approved, five-day training prior to teaching this course, must pass the Praxis Specialty in Technology Education (050) Examination with a minimum score of 580 prior to entering the classroom, and must pass the Praxis in Teaching and Learning prior to entering the classroom to teach this course.*

***Trade and Industrial Education instructors who holds a Bachelors degree and a apprenticeship occupational license (are in the process of completing the 18 semester hours for certification) must complete the state-approved, five-day training prior to teaching this course, must complete the application for Alternative License Type 1 or 2, must pass the Praxis Specialty in Technology Education (050) Examination with a minimum score of 580 prior to completing their 18 hours and must pass the Praxis in Teaching and Learning prior to completing their 18 hours to teach this course.*

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TEE: TECHNOLOGY ENGINEERING EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

<i>Technological Issues</i>	<i>Tech Iss</i>	<i>3836</i>	<i>TEE</i>	<i>007, 013, 014, 015, 016, 017, 018, 070, 105, 210, 211, 212, 213, 214, 230, 231, 232, 233, 407, 413, 414, 415, 416, 417, 418, 440, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (046 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079) OR Any T & I teacher who holds a bachelor’s degree and a professional occupational license that has completed the state-approved, five-day training prior to teaching this course, and meets the qualifications * and ** for trade and industrial education. See notes below.</i>
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TEE: TECHNOLOGY ENGINEERING EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

<i>Advanced Technological Applications</i>	ATA	3837	TEE	<p>007, 013, 014, 015, 016, 017, 018, 070, 105, 210, 211, 212, 213, 214, 230, 231, 232, 233, 407, 413, 414, 415, 416, 417, 418, 440, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (046 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079) OR Any T & I teacher who holds a bachelor’s degree and a professional occupational license that has completed the state-approved, five-day training prior to teaching this course, and meets the qualifications * and ** for trade and industrial education. See notes below.</p>
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** Trade and Industrial Education instructors who holds a Bachelor’s degree and a professional occupational license (have already completed the 18 semester hours for certification) must complete the state –approved, five-day training prior to teaching this course, must pass the Praxis Specialty in Technology Education (050) Examination with a minimum score of 580 prior to entering the classroom, and must pass the Praxis in Teaching and Learning prior to entering the classroom to teach this course.*

***Trade and Industrial Education instructors who holds a Bachelors degree and an apprenticeship occupational license (are in the process of completing the 18 semester hours for certification) must complete the state-approved, five-day training prior to teaching this course, must complete the application for Alternative License Type 1 or 2, must pass the Praxis Specialty in Technology Education (10050) Examination with a minimum score of 580 prior to completing their 18 hours and must pass the Praxis in Teaching and Learning prior to completing their 18 hours to teach this course.*

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TEE: TECHNOLOGY ENGINEERING EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

<i>Advanced Design Applications</i>	ADA	3838	TEE	<p>007, 013, 014, 015, 016, 017, 018, 070, 105, 210, 211, 212, 213, 214, 230, 231, 232, 233, 407, 413, 414, 415, 416, 417, 418, 440, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (046 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079) OR Any T & I teacher who holds a bachelor’s degree and a professional occupational license that has completed the state-approved, five-day training prior to teaching this course, and meets the qualifications * and ** for trade and industrial education. See notes below.</p>
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TEE: TECHNOLOGY ENGINEERING EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

Engineering Design	Eng Des	3839	TEE	<p>007, 013, 014, 015, 016, 017, 018, 070, 105, 210, 211, 212, 213, 214, 230, 231, 232, 233, 407, 413, 414, 415, 416, 417, 418, 440, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (046 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079) OR Any T & I teacher who holds a bachelor’s degree and a professional occupational license that has completed the state-approved, five-day training prior to teaching this course, and meets the qualifications * and ** for trade and industrial education. See notes below.</p>
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** Trade and Industrial Education instructors who holds a Bachelor’s degree and a professional occupational license (have already completed the 18 semester hours for certification) must complete the state –approved, five-day training prior to teaching this course, must pass the Praxis Specialty in Technology Education (050) Examination with a minimum score of 580 prior to entering the classroom, and must pass the Praxis in Teaching and Learning prior to entering the classroom to teach this course.*

***Trade and Industrial Education instructors who holds a Bachelors degree and an apprenticeship occupational license (are in the process of completing the 18 semester hours for certification) must complete the state-approved, five-day training prior to teaching this course, must complete the application for Alternative License Type 1 or 2, must pass the Praxis Specialty in Technology Education (10050) Examination with a minimum score of 580 prior to completing their 18 hours and must pass the Praxis in Teaching and Learning prior to completing their 18 hours to teach this course.*

CTE -- Career and Technical Education Program Classification

Courses in **bold italic print within a double lined box** are Career and Technical Education funded courses.

TEE: TECHNOLOGY ENGINEERING EDUCATION **Abbreviation/Code** **CTE** **Endorsement/Employment Standards**

<i>Problems and Solutions in Technology</i>	<i>PST</i>	<i>3813</i>	<i>TEE</i>	<p><i>007, 013, 014, 015, 016, 017, 018, 070, 105, 211, 212, 213, 214, 230, 231, 232, 233, 407, 413, 414, 415, 416, 417, 418, 440, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078),(044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (04 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079) OR Any T & I teacher who holds a bachelor's degree and a professional occupational license that has completed the state-approved, five-day training prior to teaching the course, and meets the qualifications * and ** for Trade and Industrial Education. See notes below.</i></p> <p><i>Instructors who teach this course must hold proper endorsement and have completed the state-approved, five-day training for the courses prior to teaching the course. Instructors having the following endorsements must attend the training: (007, 013, 014, 015, 016, 017, 018, 105, 210, 211, 212, 213, 214, 407, 413, 414, 415, 416, 417, 418, 460, 461, 477 and 480). In addition, instructors having only endorsements: (007, 013, 014, 015, 016, 017,018, 070, 105, 211, 212, 214, 407, 413, 414, 415, 416, 417, 460, 461, 477, and 480 must complete the state-approved, two day facilities management/safety training prior to teaching the course. Instructors are required to attend training only one time.</i></p> <p><i>Any technology engineering education instructor who was teaching technology engineering education in Tennessee prior to September of 1980 and each year thereafter including the current year and has at least two (2) of the following endorsements in technology education may teach the Technology Engineering Education course listed above, (042, 043, 044, 045, 046, 047, 077, 078 and 079). This is not a grandfathered area.</i></p> <p><i>* Trade and Industrial Education instructors who holds a Bachelor's degree and a professional occupational license (have already completed the 18 semester hour for certification) must complete the state-approved, five-day training prior to teaching this course, must pass the Praxis Specialty in Technology Education (050) Examination with a minimum score of 580 prior to entering the classroom, and must pass the Praxis in Teaching and Learning prior to entering the classroom to teach this course.</i></p> <p><i>** Trade and Industrial Education instructors who holds a Bachelor's degree and an apprenticeship occupational license (are in the process of completing the 18 semester hours for certification) must complete the state-approved, five-day training prior to teaching this course, must complete the application for Alternative License Type 1 or 2, must pass the Praxis Specialty in Technology Education (10050) Examination with a minimum score of 580 prior to completing their 18 hours, and must pass the Praxis in Teaching and Learning prior to completing their 18 hours to teach this course.</i></p>
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CTE -- Career and Technical Education Program Classification

Courses in *bold italic print within a double lined box* are Career and Technical Education funded courses.

TEE: TECHNOLOGY ENGINEERING EDUCATION	Abbreviation/Code	CTE	Endorsement/Employment Standards
<i>Visual Communications</i>	<i>Vis Com</i>	<i>3814</i>	<i>TEE 070, 230, 231, 232, 233, 470 and 477</i>
<i>Website Foundations</i>	<i>Web Found</i>	<i>3815</i>	<i>TEE 070, 230, 231, 232, 233, 470, and 477 and Industry Certification</i>
<i>Website Foundations Site Designer</i>	<i>Website Des</i>	<i>3816</i>	<i>TEE 070, 230, 231, 232, 233, 470 and 477 and Industry Certification</i>
<i>Website Foundations eCommerce</i>	<i>Web Des eCom</i>	<i>3817</i>	<i>TEE 070, 230, 231, 232, 233, 470, and 477 and Industry Certification</i>
<i>Principles of Manufacturing</i>	<i>Prin Manuf</i>	<i>3818</i>	<i>TEE 070, 230, 231, 232, 233, 470 and 477</i>
<i>*Principles of Machining and Manufacturing</i>	<i>Prin Mac Manu</i>	<i>3819</i>	<i>TEE 070, 230, 231, 232, 233, 470 and 477</i>
<i>*Principles of Engineering</i>	<i>Prin Eng</i>	<i>3820</i>	<i>TEE 070, 230, 231, 232, 233, 470 and 477</i>
<i>*Digital Electronics</i>	<i>Dig Elect</i>	<i>3821</i>	<i>TEE 070, 230, 231, 232, 233, 470 and 477</i>
<i>*Manufacturing Applications</i>	<i>Manuf App</i>	<i>3822</i>	<i>TEE 070, 230, 231, 232, 233, 470 and 477</i>
<i>**Computer Aided Drafting</i>	<i>Comp Draft</i>	<i>3823</i>	<i>TEE 070, 230, 231, 232, 233, 470 and 477 plus American Design and Drafting Association (ADDA) certification.</i>
<i>*Advanced Computer - Aided Drafting</i>	<i>Comp Draft</i>	<i>3824</i>	<i>TEE 070, 230, 231, 232, 233, 470 and 477 plus American Design and Drafting Association (ADDA) certification.</i>
<i>**Special Course – Manufacturing Cluster</i>	<i>Sp Crs (4)</i>	<i>3825</i>	<i>TEE 070, 230, 231, 232, 233, 470 and 477 plus American Design and Drafting Association (ADDA) certification.</i>
<i>** Special Course – Arts and Communication Cluster</i>	<i>Sp Crs (5)</i>	<i>3826</i>	<i>TEE 070, 230, 231, 232, 233, 470 and 477 plus American Design and Drafting Association (ADDA) certification.</i>

Instructors who teach these courses must hold proper endorsement and have completed the state-approved, five-day training for the class and the one day safety training prior to teaching the course.

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

TEE: TECHNOLOGY ENGINEERING EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

<p><i>Work Based Learning/Supervision Periods (1)</i></p>	<p>WB</p>	<p>3898</p>	<p>TEE</p>	<p><i>070, 230, 231, 232, 233, 470, 477, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (046 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079) See notes below.</i></p> <p><i>(1) The credit for Work Based Learning is awarded in the appropriate related career and technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement <u>and</u> have completed the state-approved 40-hour training and internship or the state-approved course equivalent.</i></p> <p><i>Prior approval of special courses by the Division of Career and Technical -Technical Education is required.</i></p>
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CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

TEE: TECHNOLOGY ENGINEERING EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

<i>Special Course - Tech Ed (1) and (2)</i>	<i>Spec Crs</i>	<i>(2)</i>	<i>TEE</i>	<p><i>007, 013, 014, 015, 016, 017, 018, 070, 105, 210, 211, 212, 213, 214, 230, 231, 232, 233, 407, 413, 414, 415, 416, 417, 418, 440, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (046 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079)</i></p> <p><i>See notes below.</i></p>
<p><i>(1) Instructors who teach this course must hold proper endorsement <u>and</u> have completed the state-approved, five-day training for the courses on the preceding page prior to teaching the course. Instructors having the following endorsements must attend the training: 007, 013, 014, 015, 016, 017, 067, 069, 070, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, 480. In addition, instructors having only endorsements 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 413, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, and 480, must complete the state-approved, two-day facilities management/safety training prior to teaching the course. Instructors are required to attend training only one time.</i></p>				
<p><i>Candidates who hold a bachelor's degree and a professional occupational education license may be issued a professional license endorsed in technology engineering education provided they: (1) complete a 5-day training in technology engineering offered by the Department of Education (or equivalent methods course); (2) complete a one-day training in safety; (3) pass the Praxis examination; (4) pass the Praxis in Principles of Learning and Teaching; and (5) are recommended by the Division of Career and Technical Education.</i></p>				
<p><i>Any technology education instructor who was teaching technology education in Tennessee prior to September of 1980 and each year thereafter including the current year and has at least two (2) of the following endorsements in technology education may teach any of the courses listed above. [042, 043, 044, 045, 046, 047, 077, 078, and 079] This is not a grandfathered area</i></p>				
<p><i>(2) Prior approval of special courses by the Division of Career and Technical Education is required.</i></p>				

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

A10 -- AGRICULTURAL EDUCATION

Abbreviation/Code

CTE

Endorsement/Employment Standards

The following codes are to be used when scheduling agricultural education teachers who are not on extended employment.

<i>Agricultural Business/Finances</i>	<i>Ag Bus/Fin</i>	<i>5100</i>	<i>A10</i>	<i>048, 448</i>
<i>Agricultural Mechanics & Maint</i>	<i>Ag Mech</i>	<i>5101</i>	<i>A10</i>	<i>048, 448</i>
<i>Agricultural Power & Equipment</i>	<i>Ag Power & Eq</i>	<i>5102</i>	<i>A10</i>	<i>048, 448</i>
<i>Agricultural Sales & Marketing</i>	<i>Ag Sales & Mkt</i>	<i>5103</i>	<i>A10</i>	<i>048, 448</i>
<i>Principles of Agricultural Sciences</i>	<i>Prin Ag Sci</i>	<i>5104</i>	<i>A10</i>	<i>048, 448</i>
<i>Advanced Principles of Agricultural Sciences</i>	<i>Adv Prin Ag Sci</i>	<i>5105</i>	<i>A10</i>	<i>048, 448</i>
<i>Aquaculture/Hydroponics</i>	<i>Aqua/Hydro</i>	<i>5109</i>	<i>A10</i>	<i>048, 448</i>
<i>Plant and Soil Science</i>	<i>Plant & Soil Sci</i>	<i>5111</i>	<i>A10</i>	<i>048, 448</i>
<i>Landscaping& Turf Management</i>	<i>Land & Turf Mgt</i>	<i>5113</i>	<i>A10</i>	<i>048, 448</i>
<i>Floral Design</i>	<i>Flor</i>	<i>5114</i>	<i>A10</i>	<i>048, 448</i>
<i>Forestry Management</i>	<i>Forestry Mgt</i>	<i>5115</i>	<i>A10</i>	<i>048, 448</i>
<i>Greenhouse Management</i>	<i>Greenhouse Mgt</i>	<i>5117</i>	<i>A10</i>	<i>048, 448</i>
<i>Horse Science</i>	<i>Horse Sci</i>	<i>5118</i>	<i>A10</i>	<i>048, 448</i>
<i>Leadership/Communications</i>	<i>Lead/Comm</i>	<i>5119</i>	<i>A10</i>	<i>048, 448</i>
<u>HQ</u> - Agriscience (1)	<i>Agrisc</i>	<i>5121</i>	<i>A10</i>	<i>(048 and 015), (048 and 016), (048 and 017), (048 and 081), (048 and 211), (048 and 212), (048 and 213), (048 and 214), (048 and 414), (048 and 415), (048 and 416), (048 and 417), (048 and 418), (048 and 449) or (448 and 015), (448 and 016), (448 and 017), (448 and 081), (448 and 211), (448 and 212), (448 and 213), (448 and 214), (448 and 414), (448 and 415), (448 and 416), (448 and 417), (448 and 418), (448 and 449)</i>
<i>(1) Teachers who teach this course must be properly endorsed and have attended the state-approved, five-day/40-hour training or pass a state-approved Methods/ Methodology of Teaching Agriscience course that meets the requirements of the five-day/40 hour training. Agriscience may satisfy one credit of life science laboratory credit required for graduation.</i>				

A10 -- AGRICULTURAL EDUCATION

Abbreviation/Code

CTE

Endorsement/Employment Standards

The following codes are to be used when scheduling agricultural education teachers who are not on extended employment.

<i>Small Animal Care</i>	<i>Anim Care</i>	<i>5122</i>	<i>A10</i>	<i>048, 448</i>
<i>Wildlife Management & Recreation</i>	<i>Wild Mgt & Rc</i>	<i>5124</i>	<i>A10</i>	<i>048, 448</i>
<i>Plant Biotechnology</i>	<i>Plant Biotech</i>	<i>5125</i>	<i>A10</i>	<i>048,448</i>
<i>Veterinary Science</i>	<i>Vet Sci</i>	<i>5126</i>	<i>A10</i>	<i>048, 448</i>
<i>Livestock Management</i>	<i>Live Mgt</i>	<i>5127</i>	<i>A10</i>	<i>048, 448</i>
<i>Agricultural Engineering</i>	<i>Ag Eng</i>	<i>5128</i>	<i>A10</i>	<i>048, 448</i>
<i>Agricultural Economics</i>	<i>Ag Econ</i>	<i>5133</i>	<i>A10</i>	<i>048,448</i>
<i>Principles of Horticultural Sciences</i>	<i>Prin Hort Sci</i>	<i>5134</i>	<i>A10</i>	<i>048,448</i>
<i>Exploring Agricultural Sciences*</i>	<i>Expl Ag Sci</i>	<i>5135</i>	<i>A10</i>	<i>048,448</i>
<i>Animal Biotechnology</i>	<i>Anim Biotech</i>	<i>5136</i>	<i>A10</i>	<i>048,448</i>
<i>Supervised Agriculture Experience</i>	<i>Sup Exp</i>	<i>5130</i>	<i>A10</i>	<i>048, 448</i>
<i>Work Based Learning/Supervision Periods (1)</i>	<i>Co-op Supv</i>	<i>5198</i>	<i>A10</i>	<i>048, 448</i>
<i>(1) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement <u>and</u> have completed the state-approved 40-hour training and internship or the state-approved course equivalent.</i>				
<i>Special Course-Agricultural Ed</i>	<i>Spec Crs</i>	<i>(3)</i>	<i>A10</i>	<i>048, 448</i>
<i>(2) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				

* Eighth Grade Course

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

A12 -- AGRICULTURAL EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards
 The following codes are to be used when scheduling agricultural education teachers who are on extended employment.

<i>Agricultural Business/Finances</i>	<i>Ag Bus/Fin</i>	<i>5150</i>	<i>A12</i>	<i>048, 448</i>
<i>Agricultural Mechanics & Maint</i>	<i>Ag Mech</i>	<i>5151</i>	<i>A12</i>	<i>048, 448</i>
<i>Agricultural Power & Equipment</i>	<i>Ag Power & Eq</i>	<i>5152</i>	<i>A12</i>	<i>048, 448</i>
<i>Agricultural Sales & Marketing</i>	<i>Ag Sales & Mkt</i>	<i>5153</i>	<i>A12</i>	<i>048, 448</i>
<i>Principles of Agriculture Sciences</i>	<i>Prin Ag Sci</i>	<i>5154</i>	<i>A12</i>	<i>048, 448</i>
<i>Advanced Principles of Agricultural Sciences</i>	<i>Adv Prin Ag Sci</i>	<i>5155</i>	<i>A12</i>	<i>048, 448</i>
<i>Aquaculture/Hydroponics</i>	<i>Aqua/Hydro</i>	<i>5159</i>	<i>A12</i>	<i>048, 448</i>
<i>Plant and Soil Science</i>	<i>Plant & Soil Sci</i>	<i>5161</i>	<i>A12</i>	<i>048, 448</i>
<i>Landscaping & Turf Management</i>	<i>Land & Turf Mgt</i>	<i>5163</i>	<i>A12</i>	<i>048, 448</i>
<i>Floral Design</i>	<i>Flor</i>	<i>5164</i>	<i>A12</i>	<i>048, 448</i>
<i>Forestry Management</i>	<i>Forestry Mgt</i>	<i>5165</i>	<i>A12</i>	<i>048, 448</i>
<i>Greenhouse Management</i>	<i>Greenhouse Mgt</i>	<i>5167</i>	<i>A12</i>	<i>048, 448</i>
<i>Horse Science</i>	<i>Horse Sci</i>	<i>5168</i>	<i>A12</i>	<i>048, 448</i>
<i>Leadership/Communications</i>	<i>Lead/Comm</i>	<i>5169</i>	<i>A12</i>	<i>048, 448</i>
<u>HQ</u> - Agriscience (1)	<i>Agrisc</i>	<i>5171</i>	<i>A12</i>	<i>(048 and 015), (048 and 016), (048 and 017), (048 and 081), (048 and 211), (048 and 212), (048 and 213), (048 and 214), (048 and 414), (048 and 415), (048 and 416), (048 and 417), (048 and 418), (048 and 449) or (448 and 015), (448 and 016), (448 and 017), (448 and 081), (448 and 211), (448 and 212), (448 and 213), (448 and 214), (448 and 414), (448 and 415), (448 and 416), (448 and 417), (448 and 418), (448 and 449)</i>
<i>(1) Teachers who teach this course must be properly endorsed and have attended the state-approved, five-day/40-hour training or pass a state-approved Methods/Methodology of Teaching Agriscience course that meets the requirements of the five-day/40 hour training. Agriscience may satisfy one credit of life Science laboratory credit required for graduation.</i>				

A12 -- AGRICULTURAL EDUCATION

Abbreviation/Code

CTE

Endorsement/Employment Standards

<i>Small Animal Care</i>	<i>Anim Care</i>	<i>5172</i>	<i>A12</i>	<i>048, 448</i>
<i>Wildlife Management & Recreation</i>	<i>Wild Mgt & Rc</i>	<i>5174</i>	<i>A12</i>	<i>048, 448</i>
<i>Plant Biotechnology</i>	<i>Plant Biotech</i>	<i>5175</i>	<i>A12</i>	<i>048, 448</i>
<i>Veterinary Science</i>	<i>Vet Sci</i>	<i>5176</i>	<i>A12</i>	<i>048, 448</i>
<i>Livestock Management</i>	<i>Live Mgt</i>	<i>5177</i>	<i>A12</i>	<i>048, 448</i>
<i>Agricultural Engineering</i>	<i>Ag Eng</i>	<i>5178</i>	<i>A12</i>	<i>048, 448</i>
<i>Agricultural Economics</i>	<i>Ag Econ</i>	<i>5183</i>	<i>A12</i>	<i>048,448</i>
<i>Principles of Horticultural Sciences</i>	<i>Prin Hort Sci</i>	<i>5184</i>	<i>A12</i>	<i>048,448</i>
<i>Exploring Agricultural Sciences*</i>	<i>Expl Ag Sci</i>	<i>5187</i>	<i>A12</i>	<i>048,448</i>
<i>Animal Biotechnology</i>	<i>Anim Biotech</i>	<i>5186</i>	<i>A12</i>	<i>048, 448</i>
<i>Supervised Agriculture Experience</i>	<i>Sup Exp</i>	<i>5181</i>	<i>A12</i>	<i>048, 448</i>
<i>Work Based Learning/Supervision Periods (1)WB Supv</i>		<i>5180</i>	<i>A12</i>	<i>048, 448</i>
<i>(1) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement <u>and</u> have completed the state-approved 40-hour training and internship or the state-approved course equivalent.</i>				
<i>Special Course Agricultural Ed</i>	<i>Spec Crs</i>	<i>(2)</i>	<i>A12</i>	<i>048, 448</i>
<i>(2) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				

* Eighth Grade Course

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded course

TI - TRADE AND INDUSTRIAL

Abbreviation/Code

CTE

Endorsement/Employment Standards

<u>Transportation, Distribution, and Logistics</u>				
<i>Career Management Success</i>	<i>Career Mgt</i>	<i>5701</i>	<i>TI</i>	<i>Any Career and Technical endorsement</i>
<i>Transportation Core</i>	<i>Trans Core</i>	<i>5702</i>	<i>TI</i>	<i>506, 507, 508, 512, 568, 579, 581</i>
<i>Aviation Maintenance I</i>	<i>Av Maint I</i>	<i>5703</i>	<i>TI</i>	<i>512, 579 and FAA Industry Certification</i>
<i>Aviation Maintenance II</i>	<i>Av Maint II</i>	<i>5704</i>	<i>TI</i>	<i>512, 579 and FAA Industry Certification</i>
<i>Leisure Craft/Small Engine Technology: Systems</i>	<i>LC Sm Eng</i>	<i>5705</i>	<i>TI</i>	<i>506, 508, 512, 568, 579, 581</i>
<i>Leisure Craft/Small Engine Technology: Engine Performance</i>	<i>LC:Sm En Perf</i>	<i>5706</i>	<i>TI</i>	<i>506, 508, 512, 568, 579, 581</i>
<i>Collision Repair: Non Structural</i>	<i>Coll Rep: N S</i>	<i>5707</i>	<i>TI</i>	<i>507 and ASE Industry Certification</i>
<i>Collision Repair: Structural</i>	<i>Coll Rep: S</i>	<i>5708</i>	<i>TI</i>	<i>507 and ASE Industry Certification</i>
<i>Collision Repair: Painting and Refinishing</i>	<i>Coll Rep: P R</i>	<i>5709</i>	<i>TI</i>	<i>507 and ASE Industry Certification</i>
<i>Automotive: Suspension and Steering</i>	<i>Auto: S S</i>	<i>5710</i>	<i>TI</i>	<i>506, 508 and ASE Industry Certification</i>
<i>Automotive: Engine Performance</i>	<i>Auto: Eng Perf</i>	<i>5711</i>	<i>TI</i>	<i>506, 508 and ASE Industry Certification</i>
<i>Automotive: Brake Systems</i>	<i>Auto: Brake Sys</i>	<i>5712</i>	<i>TI</i>	<i>506, 508 and ASE Industry Certification</i>
<i>Automotive: Electrical/Electronics System</i>	<i>Auto: Elec Sys</i>	<i>5713</i>	<i>TI</i>	<i>506, 508 and ASE Industry Certification</i>
<i>Diesel: Preventive Maintenance</i>	<i>Diesel: Prev Maint</i>	<i>5714</i>	<i>TI</i>	<i>581 and ASE Industry Certification</i>
<i>Diesel: Brake Systems</i>	<i>Diesel: Brake Sys</i>	<i>5715</i>	<i>TI</i>	<i>581 and ASE Industry Certification</i>
<i>Diesel: Suspension and Steering</i>	<i>Diesel: S S</i>	<i>5716</i>	<i>TI</i>	<i>581 and ASE Industry Certification</i>
<i>Diesel: Electrical/Electronics</i>	<i>Diesel: Elec</i>	<i>5717</i>	<i>TI</i>	<i>581 and ASE Industry Certification</i>

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Transportation, Distribution, and Logistics

<i>Diesel: Engine</i>	<i>Diesel: Eng</i>	<i>5718</i>	<i>TI</i>	<i>581 and ASE Industry Certification</i>
<i>Introduction to Aerospace</i>	<i>Intro Aero</i>	<i>5719</i>	<i>TI</i>	<i>594 and FAA Industry Certification</i>
<i>Theory of Flight</i>	<i>Theory Flgt</i>	<i>5720</i>	<i>TI</i>	<i>594 and FAA Industry Certification</i>
<i>Special Course-Transportation Service</i>	<i>Spec Crs</i>	<i>(1)</i>	<i>TI</i>	<i>506, 507, 508, 512, 568, 579, 581, 594 and industry certification where indicated</i>

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<i>Architecture and Construction</i>				
<i>Career Management Success</i>	<i>Career Mgt</i>	<i>5701</i>	<i>TI</i>	<i>Any Career and Technical endorsement</i>
<i>Construction Core</i>	<i>Const Core</i>	<i>5730</i>	<i>TI</i>	<i>501, 502, 522, 523, 524, 527, 532, 553, 554, 555, 556, 567, 575, 580, 584, 585, 592, 598 and BAT or NCCER Industry Certification</i>
<i>Carpentry I</i>	<i>Car 1</i>	<i>5731</i>	<i>TI</i>	<i>522, 575, 580, 592 and BAT or NCCER Industry Certification</i>
<i>Carpentry II</i>	<i>Car 2</i>	<i>5732</i>	<i>TI</i>	<i>522, 575, 580, 592 and BAT or NCCER Industry Certification</i>
<i>Electrical I</i>	<i>Elect 1</i>	<i>5733</i>	<i>TI</i>	<i>501, 502, 523, 532, 567, 580, 592 and BAT or NCCER Industry Certification</i>
<i>Electrical II</i>	<i>Elect 2</i>	<i>5734</i>	<i>TI</i>	<i>501, 502, 523, 532, 567, 580, 592 and BAT or NCCER Industry Certification</i>
<i>Masonry I</i>	<i>Mas 1</i>	<i>5735</i>	<i>TI</i>	<i>524 and BAT or NCCER Industry Certification</i>
<i>Masonry II</i>	<i>Mas 2</i>	<i>5736</i>	<i>TI</i>	<i>524 and BAT or NCCER Industry Certification</i>
<i>Concrete I</i>	<i>Conc 1</i>	<i>5737</i>	<i>TI</i>	<i>524 and BAT or NCCER Industry Certification</i>
<i>Concrete II</i>	<i>Conc 2</i>	<i>5738</i>	<i>TI</i>	<i>524 and BAT or NCCER Industry Certification</i>
<i>Plumbing I</i>	<i>Plumb 1</i>	<i>5739</i>	<i>TI</i>	<i>501, 502, 527, 567, 580, 592 and BAT or NCCER Industry Certification</i>
<i>Plumbing II</i>	<i>Plumb 2</i>	<i>5740</i>	<i>TI</i>	<i>501, 502, 527, 567, 580, 592 and BAT or NCCER Industry Certification</i>
<i>Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) I</i>	<i>HVAC 1</i>	<i>5741</i>	<i>TI</i>	<i>501, 502, 523, 532, 567, 592, 598 and BAT or NCCER or HVAC Excellence Industry Certification</i>
<i>Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) II</i>	<i>HVAC 2</i>	<i>5742</i>	<i>TI</i>	<i>501, 502, 523, 532, 567, 592, 598 and BAT or NCCER or HVAC Excellence Industry Certification</i>

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	<u>Abbreviation/Code</u>		<u>CTE</u>	<u>Endorsement/Employment Standards</u>
<i>Architecture and Construction</i>				
<i>Basic Principles of Welding</i>	<i>BASICPrinWld</i>	<i>5786</i>	<i>TI</i>	<i>551, 552, 553, 554, 555, 556, 584 and BAT or NCCER or AWS Industry Certification OR any other T & I endorsement plus Certified Welding Educator Certification</i>
<i>Advanced Welding Applications</i>	<i>Adv Weld App</i>	<i>5787</i>	<i>TI</i>	<i>551, 552, 553, 554, 555, 556, 584 and BAT or NCCER or AWS Industry Certification OR any other T & I endorsement plus Certified Welding Educator Certification</i>
<i>Computer Aided Drafting</i>	<i>Comp Draft</i>	<i>5788</i>	<i>TI</i>	<i>070, 230, 470, 477, plus American Design and Drafting Association OR any other T & I endorsement plus ADDA certification (ADDA) Certification OR 551, 552, 553 plus ADDA certification OR 531, 554, 555, 556, 584, 585, 595, 596 plus ADDA Certification OR any other T & I endorsement plus ADDA certification</i>
<i>Advanced Computer - Aided Drafting</i>	<i>Adv Com Draft</i>	<i>5789</i>	<i>TI</i>	<i>070, 230, 470 477, plus American Design and Drafting Association (ADDA) certification OR 551, 552, 553 plus ADDA certification OR 531, 554, 555, 556, 584, 585, 595, 596 plus ADDA Certification OR any other T & I endorsement plus ADDA certification</i>
<i>Special Course - Construction Technology</i>	<i>Spec Crs</i>	<i>(3)</i>	<i>TI</i>	<i>501, 502, 522, 523, 524, 527, 531, 532, 551, 552, 553, 554, 555 556, 567,575, 580, 584, 585, 592, 598 OR 595, 596, plus industry certification where indicated</i>
<i>(3) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				

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	<u>Abbreviation/Code</u>		<u>CTE</u>	<u>Endorsement/Employment Standards</u>
<u>Arts A/V Technology & Communication</u>				
<u>Sub Cluster Information Technology</u>				
<i>Career Management Success</i>	<i>Career Mgt</i>	<i>5701</i>	<i>TI</i>	<i>Any Career and Technical endorsement</i>
<i>Information Technology Foundations</i>	<i>Info Tech</i>	<i>5755</i>	<i>TI</i>	<i>311, 435, 436, 475, 582, 595 and A+ or NetPlus or CIW or CISCO Industry Certification</i>
<i>Computer Operating Systems and Hardware</i>	<i>Comp OP Sys</i>	<i>5756</i>	<i>TI</i>	<i>311, 435, 436, 475 and A+ or CISCO Industry Certification 582, 595 and Industry Certification</i>
<i>Networking</i>	<i>Network</i>	<i>5757</i>	<i>TI</i>	<i>311, 435, 436, 475, 582, 595 and NetPlus or CISCO Industry Certification 582, 595 and Industry Certification</i>
<i>Cabling Technology</i>	<i>Cab Tech</i>	<i>5758</i>	<i>TI</i>	<i>475, 501, 502, 523, 532, 537, 567, 578, 582, 595</i>
<u>Sub Cluster Visual Communications</u>				
<i>Visual Communications</i>	<i>Vis Comm</i>	<i>5759</i>	<i>TI</i>	<i>230, 311, 435, 436, 475, 516, 519, 520, 521, 537, 538, 543, 576, 582, 583</i>
<i>Graphic Communications I</i>	<i>Gra Comm I</i>	<i>5760</i>	<i>TI</i>	<i>516, 519, 520, 521, 543, 576, 583</i>
<i>Graphic Communications II</i>	<i>Gra Comm II</i>	<i>5761</i>	<i>TI</i>	<i>543, 583</i>
<i>Digital Design and Imaging</i>	<i>Dig Des Imag</i>	<i>5762</i>	<i>TI</i>	<i>311, 435, 436, 475, 516, 519, 520, 521, 543, 583</i>
<i>Media Concepts</i>	<i>Med Conc</i>	<i>5763</i>	<i>TI</i>	<i>576, 597</i>
<i>Audio Technology I</i>	<i>AudioTech I</i>	<i>5770</i>	<i>TI</i>	<i>576, 597</i>
<i>Audio Technology II</i>	<i>Audio Tech II</i>	<i>5771</i>	<i>TI</i>	<i>576, 597</i>
<i>Electronic Media Production</i>	<i>Elec Media Pro</i>	<i>5764</i>	<i>TI</i>	<i>576, 597</i>
<i>Electronic Media Management And Operations</i>	<i>ElecMedMgt</i>	<i>5765</i>	<i>TI</i>	<i>576, 597</i>

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***Arts A/V Technology & Communication
Sub Cluster Visual Communications***

<i>Web Site I - Foundations</i>	<i>Web I Found</i>	<i>5766</i>	<i>TI</i>	<i>311, 435, 436, 475, and CIW Associate Foundation Industry Certification OR 516, 519, 582, 583, 595 and CIW Associate Foundation Industry Certification</i>
<i>Web Page Design II - Site Designer</i>	<i>Web Des II</i>	<i>5767</i>	<i>TI</i>	<i>311, 435, 436, 475, and CIW Site Designer Industry Certification OR 516, 519, 582, 583, 595 and CIW Site Designer Industry Certification</i>
<i>Web Page Design III – eCommerce</i>	<i>Web Des III</i>	<i>5769</i>	<i>TI</i>	<i>311, 435, 436, 475, and CIW eCommerce Designer Industry Certification OR 501, 502, 516, 519, 520, 521, 523, 537, 538, 543, 567, 576, 578 582, 583, 595 and CIW eCommerce Designer Industry Certification</i>
<i>Special Course - Arts and Communication</i>		<i>(1)</i>	<i>TI</i>	<i>311, 435, 436, 475 and Industry Certification Cluster OR 501, 502, 516, 519, 520, 521, 523, 537, 538, 543, 567, 576, 578, 582, 583, 595, 597 and Industry Certification where indicated</i>

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TI -- TRADE AND INDUSTRIAL	Abbreviation/Code	CTE	Endorsement/Employment Standards	
<i>Manufacturing</i>				
<i>Career Management Success</i>	<i>Career Mgt</i>	<i>5701</i>	<i>TI</i>	<i>Any Career and Technical endorsement</i>
<i>Programming and Logic</i>	<i>Prog Logic</i>	<i>5780</i>	<i>TI</i>	<i>501, 502, 531, 537, 551, 552, 553, 554, 555, 556, 567, 575, 582, 584, 585, 595, 596</i>
<i>Principles of Manufacturing</i>	<i>Prin Manuf</i>	<i>5781</i>	<i>TI</i>	<i>531, 537, 551, 552, 553, 554, 555, 556, 575, 582, 584, 585, 596</i>
<i>Principles of Machining and Manufacturing</i>	<i>Prin Mc Manuf</i>	<i>5782</i>	<i>TI</i>	<i>531, 551, 552, 553, 554, 555, 556, 575, 584, 585, 596</i>
<i>Digital Electronics</i>	<i>Dig Elect</i>	<i>5783</i>	<i>TI</i>	<i>501,502,537,551,552,553,554,555, 556, 567, 582, 584, 585, 596</i>
<i>Principles of Engineering</i>	<i>Prin Eng</i>	<i>5784</i>	<i>TI</i>	<i>531, 551, 552, 553, 575, 582, 596</i>
<i>Manufacturing Applications</i>	<i>Manuf App</i>	<i>5785</i>	<i>TI</i>	<i>551,552,553,554,555, 556, 575, 582, 584, 585, 596</i>
<i>Basic Principles of Welding</i>	<i>Prin Weld</i>	<i>5786</i>	<i>TI</i>	<i>551, 552, 553, 554, 555, 556, 584 and BAT or NCCER or AWS Industry Certification or any T & I endorsement Plus Certified Welding Educator Certification</i>
<i>Advanced Welding Applications</i>	<i>Weld App</i>	<i>5787</i>	<i>TI</i>	<i>551, 552, 553, 554, 555, 556, 584 and BAT or NCCER or AWS Industry Certification or any T & I endorsement plus Certified Welding Educator Certification</i>
<i>Computer Aided Drafting</i>	<i>Comp Draft</i>	<i>5788</i>	<i>TI</i>	<i>070, 230, 470, plus American Design and Drafting Association (ADDA) certification or 551, 552, 553 plus ADDA certification or 531, 554, 555, 556, 584, 585 plus ADDA certification or any other T & I endorsement plus ADDA certification or 595, 596, plus ADDA certification</i>
<i>Advanced Computer Aided Drafting</i>	<i>Ad Comp Draft</i>	<i>5789</i>	<i>TI</i>	<i>070, 230, 470 plus American Design and Drafting Association (ADDA) certification or 551, 552, 553 plus ADDA certification or 531, 554, 555, 556, 584, 585 plus ADDA certification or any other T & I endorsement plus ADDA certification or 595, 596 plus ADDA certification</i>

CTE -- Career and Technical Education Program Classification

TI -- TRADE AND INDUSTRIAL

	<u>Abbreviation/Code</u>		<u>CTE</u>	<u>Endorsement/Employment Standards</u>
<i>Manufacturing</i>				
<i>Principles of Engineering (PLTW)</i>	<i>POE</i>	<i>5791</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Certification</i>
<i>Digital Electronics (PLTW)</i>	<i>DE</i>	<i>5792</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Certification</i>
<i>Introduction To Engineering Design (PLTW)</i>	<i>IED</i>	<i>5793</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Certification</i>
<i>Computer Integrated Manufacturing (PLTW)</i>	<i>CIM</i>	<i>5794</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Certification</i>
<i>Civil Engineering and Architecture (PLTW)</i>	<i>CEA</i>	<i>5795</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Certification</i>
<i>Aerospace Engineering (PLTW)</i>	<i>AE</i>	<i>5796</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Certification</i>
<i>Biotechnical Engineering (PLTW)</i>	<i>BE</i>	<i>5797</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Certification</i>
<i>Engineering Design and Development (PLTW) Capstone Course</i>	<i>EDD</i>	<i>5798</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Certification</i>
<i>Special Course - Manufacturing Cluster</i>	<i>Special Crs</i>	<i>(1)</i>	<i>TI</i>	<i>070, 230, 470, plus ADDA certification or 501, 502, 531, 537 551, 552, 553, 554, 555, 556, 567, 575, 582, 584, 585, plus ADDA certification OR 595, 596, plus ADDA certification and other industry certification where indicated</i>
<i>(1) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				

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Law, Public Safety & Security

<i>Criminal Justice I</i>	<i>Crim Jus I</i>	<i>5330</i>	<i>TI</i>	<i>586, 590</i>
<i>Criminal Justice II</i>	<i>Crim Jus II</i>	<i>5331</i>	<i>TI</i>	<i>586, 590</i>
<i>Criminal Justice III</i>	<i>Crim Just III</i>	<i>5342</i>	<i>TI</i>	<i>586, 590</i>
<i>Criminal Justice II/III (1)</i>	<i>Crim Jus II/III</i>	<i>5343</i>	<i>TI</i>	<i>586, 590</i>

(1) Use this code for classes where students in Criminal Justice II and III are scheduled in the same class period.

Human Services

<i>Principles of Cosmetology</i>	<i>Prin of Cos</i>	<i>5338</i>	<i>TI</i>	<i>561 Tennessee Cosmetology Instructor License</i>
<i>Design Principles of Cosmetology</i>	<i>Dsgn of Cos</i>	<i>5339</i>	<i>TI</i>	<i>561 Tennessee Cosmetology Instructor License</i>
<i>Chemistry of Cosmetology</i>	<i>Chemof Cos</i>	<i>5340</i>	<i>TI</i>	<i>561 Tennessee Cosmetology Instructor License</i>
<i>Special Course - Human Services</i>	<i>Spec Crs</i>	<i>(3)</i>	<i>TI</i>	<i>586, 590, 561</i>

(1) Prior approval of special courses by the Division of Career and Technical Education is required.

Cooperative Education

<i>T & I Work Based Learning</i>				
<i>Supervision Periods (4)</i>	<i>WB Supv</i>	<i>5398</i>	<i>TI</i>	<i>104 or any Occupational Endorsement, excluding endorsement 577</i>

(2) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement and have completed the state-approved 40-hour training and internship or the state-approved course equivalent.

CTE -- Career and Technical Education Program Classification

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Hospitality and Tourism

<i>Foundations of Hospitality Industry</i>	<i>Fond Hosp In</i>	<i>5380</i>	<i>TI</i>	<i>562, 563, 564, 566</i>
<i>Culinary Arts I</i>	<i>Cul Arts I</i>	<i>5381</i>	<i>TI</i>	<i>562, 563, 564, 566 and Serve-Safe, or National Registry of Food Safety Professionals or CCE Culinary Chef Educator Industry Certification</i>
<i>Culinary Arts II</i>	<i>Cul Arts II</i>	<i>5382</i>	<i>TI</i>	<i>562, 563, 564, 566 and Serve-Safe, or National Registry of Food Safety Professionals or CCE Culinary Chef Educator Industry Certification</i>
<i>Culinary Arts III</i>	<i>Cul Arts III</i>	<i>5383</i>	<i>TI</i>	<i>562, 563, 564, 566 and Serve-Safe, or National Registry of Food Safety Professionals or CCE Culinary Chef Educator Industry Certification</i>
<i>Culinary Arts II/III (1)</i>	<i>Cul Arts II/III</i>	<i>5384</i>	<i>TI</i>	<i>562, 563, 564, 566 and Serve-Safe, or National Registry of Food Safety Professionals or CCE Culinary Chef Educator Industry Certification</i>
<i>Special Course - Hospitality and Tourism</i>	<i>Spec Crs</i>	<i>(2)</i>	<i>TI</i>	<i>562, 563, 564, 566</i>
<i>Special Course - T and I</i>	<i>Spec Crs</i>	<i>(3)</i>	<i>TI</i>	<i>Any Occupational Endorsement, excluding endorsement 577</i>

(1) Use this code for classes where students in levels II and III are scheduled in the same class period.

(2)(3) Prior approval of special courses by the Division of Career and Technical Education is required.

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Jobs for Tennessee Graduates (1)

JTG

5371

TI

591, Any Career and Technical Endorsement

(1) Schools must be pre-approved by the Division of Career and Technical Education to offer this course.

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HS -- HEALTH SCIENCE EDUCATION **Abbreviation/Code** **CTE**
TEACHERS WHO RECEIVE THE 577 ENDORSEMENT MUST HOLD A MEDICAL LICENSE ISSUED BY TENNESSEE HEALTH RELATED BOARDS AND HAVE ATTENDED STATE APPROVED TRAINING.

Support Services	SS	5500	HS	577
Clinical Internship (1)	CI	5501	HS	577
<i>(1) Teachers who supervise this experience must hold proper endorsement and have completed the state-approved 40-hour work-based learning training and Clinical Internship Training or the state-approved course equivalent and 16 hours of biennial Clinical Internship Training.</i>				
Rehabilitative Therapies	RT	5503	HS	577
Health Science Education	HS	5504	HS	577
Health Infomatics	HI	5505	HS	577
Medical Therapeutics	MT	5506	HS	577
Nursing Education (2)	NE	5507	HS	577
<i>(2) Teachers who teach this course must be properly endorsed, and per federal guidelines, be a registered nurse and have worked in a long-term health care facility for a minimum of one year, if students are certified as nurses' aides. They must also have completed two days of biennial state approved Nursing Education training and 16 hours of biennial Clinical Internship Training and the state-approved 40 hour work-based learning training and internship or the state-approved course equivalent. This course requires prior approval by the Tennessee Department of Health. If students are not certified as a nurses' aides they may complete a clinical internship. The teachers who supervise this experience must hold proper endorsement, and have completed the state-approved 40-hour work-based learning training and Clinical Internship Training or the state-approved course equivalent and 16 hours of biennial Clinical Internship Training.</i>				
HQ Health Science Anatomy and Physiology(3)Ant/Phys		5509	HS	577
<i>(3) This course may satisfy one of the science credits required for graduation.</i>				
Health Science Anatomy and Physiology	Ant/Phys	5512	HS	577
Biomedical Application (4)	BA	5513	HS	577
<i>(4) Teachers who teach this course must hold proper endorsement and completed the state-approved 16 hours of biennial training. This course may be offered for one Career and Technical credit.</i>				
Forensic Science (5)	FS	5514	HS	577
<i>(5) Teachers who teach this course must hold proper endorsement and completed the state-approved 16 hours of biennial training. This course may be offered for one Career and Technical credit.</i>				
Emergency Medical Services	Em Md Serv	5510	HS	577
Diagnostic Medicine	Diag Med	5511	HS	577
Work Based Learning/Supervision Periods (5)	WB Supv	5598	HS	577
<i>(5) The credit for Work Based Learning is awarded in the appropriate related Health Science course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement and have completed the state-approved 40-hour training and internship or the state-approved course equivalent.</i>				
Special Course Health Science Education	Spec Crs	(6)	HS	577
<i>(6) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				

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FCS -- FAMILY AND CONSUMER SCIENCES EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

<i>Family & Consumer Sciences</i>	<i>Fam & Con Sc</i>	<i>5603</i>	<i>FCS</i>	<i>050, 450</i>
<i>Personal, Academic and Career Excellence</i>	<i>PACE</i>	<i>5624</i>	<i>FCS</i>	<i>050, 450</i>
<i>Consumer Economics</i>	<i>Cons Ec</i>	<i>5605</i>	<i>FCS</i>	<i>050, 450</i>
<i>HQ - Consumer Economics (1)</i>	<i>Con Ec</i>	<i>5602</i>	<i>FCS</i>	<i>050, 450</i>
<i>(1) Consumer Economics satisfies one-half credit in economics required for graduation</i>				
<i>Family and Parenting</i>	<i>Fam Par</i>	<i>5606</i>	<i>FCS</i>	<i>050, 450</i>
<i>Nutrition and Foods</i>	<i>Nutr Food</i>	<i>5609</i>	<i>FCS</i>	<i>050, 450</i>
<i>Child and Lifespan Development</i>	<i>Child Life</i>	<i>5625</i>	<i>FCS</i>	<i>050, 450</i>
<i>Interior Design</i>	<i>Int Des</i>	<i>5626</i>	<i>FCS</i>	<i>050, 450</i>
<i>Personal Finance</i>	<i>Per Fin</i>	<i>5613</i>	<i>FCS</i>	<i>050, 450</i>
<i>Housing</i>	<i>Hous</i>	<i>5614</i>	<i>FCS</i>	<i>050, 450</i>
<i>Textiles and Apparel</i>	<i>Tex App</i>	<i>5619</i>	<i>FCS</i>	<i>050, 450</i>
<i>Fashion Merchandising and Design</i>	<i>Fash Mer</i>	<i>5621</i>	<i>FCS</i>	<i>050, 450</i>
<i>Teaching as a Profession</i>	<i>TAP</i>	<i>5622</i>	<i>FCS</i>	<i>050, 450</i>
<i>Life Connections</i>	<i>Life Con</i>	<i>5623</i>	<i>FCS</i>	<i>050, 450</i>

CTE - Career and Technical Education Program Classification

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HQ - Nutrition Science (2)	Nutr Sci	5615	FCS	(050 and 015), (050 and 016), (050 and 211), (050 and 212), (050 and 415), (050 and 416) or (450 and 015), (450 and 016), (450 and 211), (450 and 212), (450 and 415), (450 and 416)
<i>(2) Teachers who teach this course must hold proper endorsement <u>and</u> have attended the state-approved, five-day training. Use this code to schedule one person who is endorsed in both Home Economics/Family and Consumer Sciences and Biology or Chemistry and is not team teaching the course. This course satisfies either one credit of Life Science (if team taught with a Biology teacher) or one credit of Physical Science (if team taught with a Chemistry teacher) required for graduation.</i>				
HQ - Nutrition Science(4)	Nutr Sci	5616	FCS	050, 450
<i>(4) Teachers who teach this course must hold proper endorsement <u>and</u> have attended the state-approved, five-day training. Use this course code to schedule the Family and Consumer Sciences team teaching instructor. This course satisfies either one credit of Life Science (if team taught with a Biology teacher) or one credit of Physical Science (if team taught with a Chemistry teacher) required for graduation. The team teachers should be assigned to the same group of Nutrition Science students.</i>				
Nutrition Science (3) (for CTE credit)	Nutr Sci	5617	FCS	(050 and 015), (050 and 016), (050 and 211), (050 and 212), (050 and 415), (050 and 416) or (450 and 015), (450 and 016), (450 and 211), (450 and 212), (450 and 415), (450 and 416)
<i>(3) Teachers who teach this course must hold proper endorsement <u>and</u> have attended the state-approved, five-day training. Use this code to schedule one person who is endorsed in both Home Economics/Family and Consumer Sciences and Biology or Chemistry and is not team teaching the course.</i>				
Nutrition Science (1) (for CTE credit)	Nutr Sci	5618	FCS	050, 450
<i>(1) Teachers who teach this course must hold proper endorsement <u>and</u> have attended the state-approved, five-day training. Use this course code to schedule the Family and Consumer Sciences team teaching instructor.</i>				
Teen Learning Center Director (2)	TLC Dir	5649	FCS	002, 050, 058, 403, 450, 451, 465, 497
<i>(2) Use of this code is for those individuals who direct a secondary Teen Learning Center that must be operated in conjunction with Teen Parenting and for Early Childhood Education Careers classes. No students should be assigned to this code.</i>				
Work Based Learning/Supervision Periods(3)	WB	5697	FCS	050. 450
<i>(3) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement <u>and</u> have completed the state-approved 40-hour training and internship or the state-approved course equivalent.</i>				
Special Course--Fam & Con Sc	Spec Crs	(4)	FCS	050, 450
<i>(4) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				

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Courses and assignments shaded in gray are excluded from the Preliminary School Report and the courses, such as, typewriting, instrumental music and vocal music, are excluded from class size limits in accordance with T.C.A. 49-1-104.

FCSO -- FAMILY & CONSUMER SCIENCES OCCUPATIONAL EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

<i>Early Childhood Education Careers I</i>	<i>Early Child I</i>	5650	FCSO	<i>(050 and 058), (050 and 451), (450 and 058), (450 and 451)</i>
<i>Early Childhood Education Careers II</i>	<i>Early Child II</i>	5660	FCSO	<i>(050 and 058), (050 and 451), (450 and 058), (450 and 451)</i>
<i>Early Childhood Education Careers III</i>	<i>Early Child III</i>	5661	FCSO	<i>(050 and 058), (050 and 451), (450 and 058), (450 and 451)</i>
<i>Early Childhood Education Careers II / III (1)</i>	<i>Early Child II/III</i>	5662	FCSO	<i>(050 and 058), (050 and 451), (450 and 058), (450 and 451)</i>
<i>(1) Use this code for classes where student in levels II and III are scheduled in the same class period.</i>				
<i>Culinary Arts I</i>	<i>Cul Arts I</i>	5656	FCSO	<i>(050 and 060), (050 and 453), (450 and 060), (450 and 453) and Serve-Safe or National Registry of Food Safety Professionals or CCE Culinary Chef Educator Industry Certification</i>
<i>Culinary Arts II</i>	<i>Cul Arts II</i>	5657	FCSO	<i>(050 and 060), (050 and 453), (450 and 060), (450 and 453) and Serve-Safe or National Registry of Food Safety Professionals or CCE Culinary Chef Educator Industry Certification</i>
<i>Culinary Arts III</i>	<i>Cul Arts III</i>	5658	FCSO	<i>(050 and 060), (050 and 453), (450 and 060), (450 and 453) and Serve-Safe or National Registry of Food Safety Professionals or CCE Culinary Chef Educator Industry Certification</i>
<i>Culinary Arts II/III (2)</i>	<i>Cul Arts II/III</i>	5659	FCSO	<i>(050 and 060), (050 and 453), (450 and 060), (450 and 453) and Serve-Safe or National Registry of Food Safety Professionals or CCE Culinary Chef Educator Industry Certification</i>
<i>(2) Use this code for classes where students in levels II and III are scheduled in the same class period</i>				
<i>Work Based Learning/Supervision Periods (3)</i>	<i>WB Supv</i>	5698	FCSO	<i>058, 059, 060, 061, 062, 451, 452, 453</i>
<i>(3) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement <u>and</u> have completed the state-approved 40-hour training and internship or the state-approved course equivalent.</i>				
<i>Special Course -- Fam & Con Sc-Occ</i>	<i>Spec Crs</i>	(4)	FCSO	<i>058, 059, 060, 061, 062, 451, 452, 453</i>
<i>(4) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				

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ME -- MARKETING EDUCATION	Abbreviation/Code	CTE	Endorsement/Employment Standards	
HQ - Marketing & Management I - Principles <i>Marketing & Management I Principles</i>	<i>Market 1</i>	<i>5000</i>	<i>ME</i>	<i>052, 471, 472</i>
	<i>Market 1</i>	<i>5030</i>	<i>ME</i>	<i>052, 471, 472</i>
Marketing & Management II - Advanced Strategies	<i>Market 2</i>	<i>5001</i>	<i>ME</i>	<i>052, 471, 472</i>
Travel & Tourism Operations	<i>Travel</i>	<i>5003</i>	<i>ME</i>	<i>052, 471, 472</i>
HQ - Services Marketing	<i>Serv Mkting</i>	<i>5004</i>	<i>ME</i>	<i>052, 471, 472</i>
Services-Marketing	<i>Serv-Mkting</i>	<i>5034</i>	<i>ME</i>	<i>052, 471, 472</i>
HQ - Entrepreneurship	<i>Entrepre</i>	<i>5005</i>	<i>ME</i>	<i>052, 471, 472</i>
Entrepreneurship	<i>Entrepre</i>	<i>5035</i>	<i>ME</i>	<i>052, 471, 472</i>
HQ - Financial Services Marketing	<i>Finance</i>	<i>5006</i>	<i>ME</i>	<i>052, 471, 472</i>
Financial Services Marketing	<i>Finance</i>	<i>5036</i>	<i>ME</i>	<i>052, 471, 472</i>
Personal Finance and Building Wealth (1) (2)	<i>Finance</i>	<i>5037</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>(1) Have to have 8 hour training session by Mark-Ed and Better Investing in order to teach this course.</i>				
<i>(2) Fee associated with course – Curriculum LAPS must be purchased from Mark-ED for this course.</i>				
Personal Finance	<i>Finance</i>	<i>5038</i>	<i>ME</i>	<i>052, 471, 472</i>
Technical Marketing	<i>Tech Mkting</i>	<i>5011</i>	<i>ME</i>	<i>052, 471, 472</i>
Exploration of Marketing & Management	<i>Mkting</i>	<i>5014</i>	<i>ME</i>	<i>052, 471, 472</i>
HQ - International Business & Marketing	<i>International</i>	<i>5015</i>	<i>ME</i>	<i>039, 052, 054, 056, 057, 201, 202, 204, 311, 430, 435, 436, 471, 472</i>
International Business & Marketing	<i>International</i>	<i>5045</i>	<i>ME</i>	<i>052, 471, 472</i>
Advertising & Public Relations	<i>Advertising</i>	<i>5016</i>	<i>ME</i>	<i>052, 471, 472</i>
Marketing Research and Analysis	<i>Market Inf</i>	<i>5017</i>	<i>ME</i>	<i>052, 471, 472</i>

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ME -- MARKETING EDUCATION	Abbreviation/Code		CTE	Endorsement/Employment Standards
Sales Management	Sales Mgt	5018	ME	052, 471, 472
Organizational Leadership	Org Lead	5019	ME	052, 471, 472
HQ – Wholesale Logistics Operations	Wholesale	5020	ME	052, 471, 472
Wholesale Logistics Operations	Wholesale	5050	ME	052, 471, 472
HQ – Retail Operations	Retail	5022	ME	052, 471, 472
Retail Operations	Retail	5052	ME	052, 471, 472
Sports and Entertainment Marketing	Sports & Ent	5023	ME	052, 471, 472
Foundations of the Hospitality Industry	Fnd Hosp Ind	5025	ME	052, 471, 472
Lodging Operations/Hospitality Management	Hosp Manag	5026	ME	052, 471, 472
Virtual Enterprise International (1)				
	Vir Ent Int	5057	ME	052, 471, 472
<i>(1) This course is trademarked by the New York City Department of Education and has an associated fee. Prior approval must be obtained from the Marketing consultant as well as requisite training before offering this course. Course must be taught by Marketing teacher to count for the Marketing Concentration.</i>				
HQ Virtual Enterprise International (2)				
	Vir Ent Int	5062	ME	052, 471, 472
<i>(2) This course is trademarked by the New York City Department of Education and has an associated fee. Prior approval must be obtained from the Marketing consultant as well as requisite training before offering this course. Course must be taught by Marketing teacher to count for the Marketing Concentration.</i>				
Work Based Learning/Supervision Periods(3)				
	WB	5098	ME	052, 471, 472
<i>(3) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement <u>and</u> have completed the state-approved 40-hour training and internship or the state-approved course equivalent.</i>				
Special Course – Marketing				
	Spec Crs	(4)	ME	052, 471, 472
<i>(4) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				
NOTE: Codes 5062, 5000, 5004, 5005, 5006, 5015, 5020, and 5022 meets the criteria and standards to substitute for the economics ½ credit required for graduation for both the regular and honors diplomas.				

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