



# Wilkes County Schools Career & Technical Education

## Career Clusters & Available CTE Courses 2017-2018

(Revised 7/31/17)

The following courses are included in almost every Career Cluster as either a foundational or enhancement course ... and are good choices for students who are undecided about which area they are most interested in:

**Principles of Business & Finance**  
**MS Word, PowerPoint & Publisher**  
**MS Excel & Access**  
**Project Management 1 & Project Management 2/Technology**  
**Personal Finance**  
**Entrepreneurship 1**  
**CTE Internship**  
**Career Management**

Juniors and seniors can participate in a **CTE Internship** if they have completed at least two foundational courses in a specific CTE cluster. This counts as an enhancement course in all clusters. See counselor or CTE teacher for details. **CTE Advanced Studies** is an excellent vehicle for completing the Graduation Project. The four components consist of a paper, project, portfolio, and presentation. CTE Advanced Studies must be directly aligned with a student's career pathway. The teacher of record **MUST** be HQ in the program area. Prerequisite: Three technical credits within the same career cluster.

To be a "completer" (also called "concentrator"), students must complete 4 credits within the same career cluster. At least 3 of the 4 must be a foundational course. One of those 3 must be a second level (\*) course. The 4th credit, may be an enhancement course. CCP courses count as either foundational or enhancement courses – as long as they are within the same career cluster.



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Dr. Westley Wood, Executive Director of Personnel  
Chris Skabo, Title IX Coordinator  
Jennifer Blankenship, Executive Director of Exceptional Children, ADA  
Dr. Joe Bullis, Title 1, ESL/Title III  
Anna Lankford, Assistant Superintendent, Title II  
Wayne Shepherd, CTE Director, Vocational Programs  
April Marr, 504 Coordinator

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Career Cluster	Foundational Courses <i>Students must have at least three (3) credits from this list. To be a "completer" one of those credits must be a second-level course (indicated by an *). All four (4) credits could come from this list.</i>	Career & College Promise Courses <b>Wilkes Community College</b> <i>All CCP courses count as foundational and/or enhancement ... as well as "completer" courses - as long as they are aligned with specific career clusters. NOTE: Exact course codes may change.</i>	Enhancement Courses <i>A student's fourth CTE cluster course may come from this list</i>
	Animal Science 1 & 2* Ag. Mechanics 1 & 2* Horticulture 1 & 2* Foods 1 & 2* Personal Finance Project Management 1 & 2T Principles of Family & Human Services CTE Advanced Studies	ACM 110 Intro to Animal Care ANS 110 Intro to Animal Science ANS 130 Poultry Production ANS 140 Swine Production ANS 150 Animal Health Mgt. HOR 114 Landscape Construction HOR 134 Greenhouse Operations HOR 166 Soils & Fertilizers TRF 151 Intro Landscape Design	Prin. of Business & Finance MS Word, PPT & Pub. MS Excel & Access Entrepreneurship 1 CTE Internship Career Management
	Core&Sustain. Construction Intro to Trade & Industry Principles of Family & Human Services Masonry 1, 2*, 3 Carpentry 1, 2*, 3 Interior Design 1 & 2* Prin. of Business & Finance Personal Finance Project Management 1 & 2T Adv. Manufacturing 1&2* CTE Advanced Studies	BPR 111 Blueprint Reading ISC 112 Industrial Safety DFT 119 Basic CAD ARC 112 Construction Materials & Methods PLU 111 Intro to Plumbing ARC 225 Architectural BIM 1 CST 131 OSHA Safety Certification CST 251 Electrical Wiring Systems AHR 110 Intro to Refrigeration	Agriculture Mechanics 1 MS Word, PPT & Pub. MS Excel & Access Entrepreneurship 1 Apparel 1 CTE Internship Career Management
	Adobe Visual Design MS Word, PPT & Pub. Project Management 1 & 2T Apparel 1 & 2* Scientific & Tech Visual 1 Entrepreneurship 1 Intro to Trade & Industry CTE Advanced Studies	CTI 110 Web Programming & Database Foundations CTS 115 Information Systems Business Concepts DBA 110 Database Concepts CTS 120 Hardware & Software Support	Prin. of Business & Finance MS Excel & Access Interior Design 1 Personal Finance Prin. of Family & Human Services CTE Internship Career Management
	Prin. of Business & Finance Business Law* Entrepreneurship 1* Accounting 1 MS Word, PPT & Pub Project Management 1& 2T* CTE Advanced Studies MS Excel and Access	BUS 115 Business Law ACC 120 Principles of Financial Accounting MKT 120 Principles of Marketing BUS 110 Intro to Business ECO 251 Principles of Microeconomics ENG 111 Writing & Inquiry	Personal Finance CTE Internship Career Management
	Prin. of Business & Finance Business Law Entrepreneurship 1 Accounting 1 & 2* MS Excel & Access Personal Finance CTE Advanced Studies	BUS 115 Business Law ACC 120 Principles of Financial Accounting ACC 121 Principle of Managerial Accounting DBA 110 Database Concepts	MS Word, PPT & Pub Project Management 1 Prin. of Family & Human Services CTE Internship Career Management

 <p><b>Health Science</b></p>	<p>Health Team Relations Biomedical Tech. 1 &amp; 2* Health Science 1 &amp; 2* Nursing Fundamentals CTE Advanced Studies</p>	<p>PSY 150 General Psychology ENG 111 Writing &amp; Inquiry</p>	<p>Prin. of Family &amp; Human Services MS Word, PPT &amp; Pub MS Excel &amp; Access Personal Finance Parenting &amp; Child Dev. Foods 1 Entrepreneurship 1 CTE Internship Career Management</p>
 <p><b>Hospitality &amp; Tourism</b></p>	<p>Foods 1 &amp; 2* Sports &amp; Ent. Marketing 1 &amp; 2* Project Management 1 Entrepreneurship 1 Prin. of Business &amp; Finance CTE Advanced Studies</p>	<p>CUL 110 Sanitation &amp; Safety CUL 140 Culinary Skills 1 CUL 160 Baking 1 CUL 170 Gardee Manager 1</p>	<p>MS Word, PPT &amp; Pub MS Excel &amp; Access Prin. of Family &amp; Human Services Personal Finance CTE Internship Career Management</p>
 <p><b>Human Services</b></p>	<p>Parenting &amp; Child Dev. Personal Finance Prin. of Business &amp; Finance Prin. of Family &amp; Human Services CTE Advanced Studies</p>	<p>EDU 119 Intro to Early Childhood Ed EDU 131 Child, Family &amp; Community EDU 151 Creative Activities EDU 153 Health, Safety, and Nutrition</p>	<p>MS Word, PPT &amp; Pub MS Excel &amp; Access Foods 1 Entrepreneurship 1 CTE Internship Career Management</p>
 <p><b>Information Technology</b></p>	<p>Prin. of Business &amp; Finance MS Excel &amp; Access Project Management 1 &amp; 2T Computer Program. 1 &amp; 2* Intro. to Computer Science Intro. to Trade &amp; Industry Adobe Visual Design CTE Advanced Studies MS Word, PowerPoint &amp; Pub</p>	<p>CTI 110 Web.Pgm &amp; Db Foundation CTS 115 Info SystemsBus.Concepts CTS 120 Hard/Software Support DBA 110 Database Concepts</p>	<p>Entrepreneurship 1 Personal Finance CTE Internship Career Management</p>
 <p><b>Law, Public Safety, Corrections &amp; Security</b></p>	<p>CTE Advanced Studies Fire Fighter Tech. 1&amp;2*</p>	<p>CJC 112 Juvenile Justice CJC 113 Criminology CJC 132 Court Pro and Evidence CJC 231 Constitutional Law</p>	<p>Prin. of Business &amp; Finance Prin. of Family &amp; Human Services MS Word, PPT &amp; Pub MS Excel &amp; Access Personal Finance CTE Internship Career Management</p>
 <p><b>Manufacturing</b></p>	<p>Intro. to Trade &amp; Industry Prin. of Business &amp; Finance Project Management 1 &amp; 2T Apparel 1 &amp; 2* Entrepreneurship 1 Adv. Manufacturing 1 &amp; 2* CTE Advanced Studies</p>	<p>WLD 110 Cutting Processes WLD 115 SMAW (STICK) Plate WLD 121 GMAW (MIG) Plate WLD 131 GTAW (TIG) Plate WLD 141 Symbols and Specs. WLD 151 Fabrication 1 MAC 121 Intro to MAC ELC 131 Circuit Analysis I MAC 122 CNC Turning ISC 170 Problem Solving Skills ATR 112 Intro to Automation DFT 154 Intro to Solid Modeling</p>	<p>MS Word, PPT &amp; Pub MS Excel &amp; Access Personal Finance Agriculture Mechanics 1 Career Management CTE Internship</p>

	<p>Prin. of Business &amp; Finance          Entrepreneurship 1*          Project Management 1 &amp; 2T          CTE Advanced Studies</p>	<p>MKT 120 Prin. of Marketing          BUS 115 Business Law</p>	<p>Business Law          MS Word, PPT &amp; Pub          MS Excel &amp; Access          Personal Finance          Apparel 1          CTE Internship          Career Management</p>
	<p>Adv. Manufacturing 1 &amp; 2*          Tech., Eng. &amp; Design          Technological Design*          Engineering Design*          Scientific &amp; Tech Vis. 1 &amp; 2*          Project Mgt 1 &amp; 2T*          Intro. to Trade &amp; Industry          CTE Advanced Studies</p>	<p>CET 110 Intro to CET          EGR 111 Intro to Engineering Tech.          HYD 110 Hydraulics / Pneumatics 1</p>	<p>Prin. of Business &amp; Finance          MS Word, PPT &amp; Pub          MS Excel &amp; Access          Horticulture 1          Entrepreneurship 1          Personal Finance          CTE Internship          Career Management</p>
	<p>Entrepreneurship 1          Project Management 1 &amp; 2T          CTE Advanced Studies</p>	<p>AUT 116 Engine Repair          AUT 116A Engine Repair Lab          AUT 151 Automotive Brakes          AUT 151A Automotive Brakes Lab          AUT 181 Engine Performance 1          AUT 181A Engine Perf. 1 Lab          TRN 110 Intro to Trans. Technology          TRN 120 Basic Trans. Electricity          TRN 140 Trans. Climate Control          TRN 140A Trans Climate Control Lab          TRN 170 Basic PC Skills for Trans          TRN 180 Basic Welding for Trans.</p>	<p>Prin. of Business &amp; Finance          MS Word, PPT &amp; Pub          MS Excel &amp; Access          Agriculture Mechanics 1          Intro. to Trade &amp; Industry          Personal Finance          CTE Internship          Career Management</p>