




# North Carolina Career Clusters Initiative



# North Carolina Career Clusters


Draft 6/16/2011

Middle School Courses	Pathways	 <b>Cluster Foundation Courses</b>			Cluster Enhancement Courses		
6158 Exploring Career Decisions  6207 Computer Skills & Applications  6208 Exploring Business, Marketing & Entrepreneurship (BFIT & MEE)  6828 Exploring Biotechnology in Agriculture  6829 Exploring Agricultural Science  7018 Exploring Life Skills	<b>Agribusiness Systems</b>	6810 Agriscience Applications	6811 Agricultural Production I	6812 Agricultural Production II *	6145 Career Management 6417 Microsoft Word, PowerPoint, & Publisher ^ 6419 Microsoft Excel & Access ^ 6621 Marketing 7121 Culinary Arts & Hospitality I 8716 Entrepreneurship I (BFIT & MEE) 8721 Principles of Business & Finance (BFIT & MEE) 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University		
	6911 Agribusiness Management, Trends & Issues I ^		6912 Agribusiness Management, Trends & Issues II * ^	8510 Project Management I		8511 Project Management II – Global *	8513 Project Management III
			8512 Project Management II – Technology *				
	<b>Animal Systems</b>	6810 Agriscience Applications	6811 Agricultural Production I	6812 Agricultural Production II *			
			6821 Animal Science I	6822 Animal Science II *			
				6823 Animal Science II Small Animal *			
			6871 Biotechnology & Agriscience Research I	6872 Biotechnology & Agriscience Research II *			
			6825 Equine Science I	6826 Equine Science II *			
	<b>Food Products &amp; Processing Systems</b>	7015 Teen Living	7045 Foods I	7046 Foods II-Enterprise *			
		8726 Personal Finance (BFIT, FACS & MEE)		7075 Foods II-Technology*			

(Agriculture, Food & Natural Resources continued on next page)

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6158 Exploring Career Decisions	<b>Natural Resources Systems</b>	6810 Agriscience Applications	6851 Environmental & Natural Resources I	6852 Environmental & Natural Resources II *	6145 Career Management 6417 Microsoft Word, PowerPoint, & Publisher ^ 6419 Microsoft Excel & Access ^ 6621 Marketing 7121 Culinary Arts & Hospitality I 8716 Entrepreneurship I (BFIT & MEE) 8721 Principles of Business & Finance (BFIT & MEE) 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University
6207 Computer Skills & Applications	<b>Plant Systems</b>	6810 Agriscience Applications	6811 Agricultural Production I	6812 Agricultural Production II *	
6208 Exploring Business, Marketing & Entrepreneurship (BFIT & MEE)			6871 Biotechnology & Agriscience Research I	6872 Biotechnology & Agriscience Research II *	
6828 Exploring Biotechnology in Agriculture			6841 Horticulture I	6842 Horticulture II *	
6829 Exploring Agricultural Science			6843 Horticulture II – Turfgrass Management*	6882 Horticulture II – Landscaping *	
7018 Exploring Life Skills			6832 Agricultural Mechanics II*	6833 Agricultural Mechanics II Small Engines*	
	<b>Power, Structural &amp; Technical Systems</b>	6810 Agriscience Applications	6831 Agricultural Mechanics I		

*Additional pathways*      Environmental Service Systems

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6158 Exploring Career Decisions  6207 Computer Skills & Applications  6208 Exploring Business, Marketing, & Entrepreneurship (BFIT & MEE)  7018 Exploring Life Skills  8201 Technology Design & Innovation	<b>Construction</b>	7721 Carpentry I	7722 Carpentry II * ^	7723 Carpentry III ^	7724 Carpentry IV ^	6145 Career Management 6414 Multimedia & Webpage Design 6417 Microsoft Word, PowerPoint, & Publisher ^ 6419 Microsoft Excel & Access ^ 6621 Marketing 6631 Fashion Merchandising 6831 Agricultural Mechanics I 7035 Apparel I 8716 Entrepreneurship I (BFIT & MEE)
		7741 Electrical Trades I	7742 Electrical Trades II * ^	7743 Electrical Trades III ^		
		7711 Masonry I	7712 Masonry II * ^	7713 Masonry III ^	7714 Masonry IV ^	
		7921 Drafting I	7962 Drafting II – Architectural *	7963 Drafting III – Architectural		
		7721 Carpentry I	8510 Project Management I	8511 Project Management II – Global *	8513 Project Management III	
		7741 Electrical Trades I				
		7711 Masonry I		8512 Project Management II – Technology *		
	7921 Drafting I					
	<b>Design/ Pre-construction</b>	7015 Teen Living	7151 Interior Design I	7152 Interior Design II*	7153 Interior Applications	8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University
		8726 Personal Finance (BFIT, FACS & MEE)				
8721 Principles of Business & Finance (BFIT & MEE)						


*Additional pathways* Maintenance/Operations

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6158 Exploring Career Decisions  6207 Computer Skills & Applications  6208 Exploring Business, Marketing & Entrepreneurship (BFIT & MEE)  7018 Exploring Life Skills  8201 Technology Design & Innovation	<b>Audio &amp; Video Technology &amp; Film</b>	6414 Multimedia & Webpage Design	7935 Digital Media ^	7936 Advanced Digital Media * ^		6145 Career Management 6419 Microsoft Excel & Access ^ 6621 Marketing 7055 Interior Design I 8721 Principles of Business & Finance (BFIT & MEE) 8726 Personal Finance (BFIT, FACS & MEE) 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University
	<b>Printing Technology</b>	7915 Introduction to Graphic Communications ^	7916 Digital File Preparation * ^	7918 Print Advertising & Design ^		
	<b>Visual Arts</b>	7015 Teen Living	7917 Offset Press Operations * ^	7919 Binding & Finishing ^		
	<b>Visual Arts</b>	6631 Fashion Merchandising (FACS & MEE)	7035 Apparel I (FACS & MEE)	7036 Apparel II – Enterprise* (FACS & MEE)	8716 Entrepreneurship I (BFIT & MEE)	
	<b>Visual Arts</b>	8006 Scientific & Technical Visualization I	8221 Game Art Design * ^	8222 Advanced Game Art Design ^		
	<b>Visual Arts</b>	6417 Microsoft Word, PowerPoint, & Publisher ^	8510 Project Management I	8511 Project Management II – Global *	8513 Project Management III	
	<b>Visual Arts</b>			8512 Project Management II – Technology *		


*Additional pathways*  
 Performing Arts  
 Journalism & Broadcasting  
 Telecommunications

Middle School Courses	Pathways	 Cluster Foundation Courses				Cluster Enhancement Courses
6158 Exploring Career Decisions  6207 Computer Skills & Applications  6208 Exploring Business, Marketing & Entrepreneurship (BFIT & MEE)	<b>General Management</b>	8721 Principles of Business & Finance (BFIT & MEE)	6311 Accounting I	8710 Business Management * ^  6215 Business Law *  8716 Entrepreneurship I (BFIT & MEE)	8717 Entrepreneurship II * (BFIT & MEE)	6145 Career Management 6419 Microsoft Excel & Access ^ 6621 Marketing 6626 Strategic Marketing 6911 Agribusiness Management Trends & Issues I 8726 Personal Finance (BFIT, FACS & MEE) 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University
		6417 Microsoft Word, PowerPoint, & Publisher ^	8510 Project Management I	8511 Project Management II – Global *  8512 Project Management II – Technology *	8513 Project Management III	

*Additional pathways*


Administrative Support  
 Business Information Management  
 Human Resources Management  
 Operations Management

Middle School Courses	Pathways	 <p>Cluster Foundation Courses</p>	Cluster Enhancement Courses
<p>6158 Exploring Career Decisions</p> <p>6207 Computer Skills &amp; Applications</p> <p>6208 Exploring Business, Marketing &amp; Entrepreneurship (BFIT &amp; MEE)</p> <p>7018 Exploring Life Skills</p>	<p><b>Administration and Administrative Support</b></p> <p><b>Professional Support Services</b></p> <p><b>Teaching/Training</b></p>		<p>6145 Career Management</p> <p>6417 Microsoft Word, PowerPoint, &amp; Publisher ^</p> <p>6419 Microsoft Excel &amp; Access ^</p> <p>8721 Principles of Business &amp; Finance (BFIT &amp; MEE)</p> <p>8726 Personal Finance (BFIT, FACS &amp; MEE)</p> <p>8595 CTE Advanced Studies</p> <p>8596 DOL Apprenticeship</p> <p>8597 CTE Internship</p> <p>8598 CTE Community College</p> <p>8599 CTE University</p>

Middle School Courses	Pathways	 <b>Cluster Foundation Courses</b>				Cluster Enhancement Courses
6158 Exploring Career Decisions  6207 Computer Skills & Applications  6208 Exploring Business, Marketing & Entrepreneurship (BFIT & MEE)  7018 Exploring Life Skills  8201 Technology Design & Innovation	<b>Business Finance</b>	8721 Principles of Business & Finance (BFIT & MEE)	6311 Accounting I	6312 Accounting II *	8716 Entrepreneurship I (BFIT & MEE)	6145 Career Management 6417 Microsoft Word, PowerPoint, & Publisher ^ 6621 Marketing 6626 Strategic Marketing 8510 Project Management I 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University
8726 Personal Finance (BFIT, FACS & MEE)		6215 Business Law				
6419 Microsoft Excel & Access ^		National Academy Foundation – Academy of Finance ^				


Additional pathways

Banking Services  
 Insurance  
 Securities and Investments

Middle School Courses	Pathways	 <p>Cluster Foundation Courses</p>	Cluster Enhancement Courses
<p>6158 Exploring Career Decisions</p> <p>6207 Computer Skills &amp; Applications</p> <p>6208 Exploring Business, Marketing &amp; Entrepreneurship (BFIT &amp; MEE)</p> <p>7018 Exploring Life Skills</p>	<p><b>Governance</b></p> <p><b>National Security</b></p> <p><b>Foreign Service</b></p> <p><b>Planning</b></p> <p><b>Revenue and Taxation</b></p> <p><b>Regulation</b></p> <p><b>Public Management and Administration</b></p>		<p>6145 Career Management</p> <p>6417 Microsoft Word, PowerPoint, &amp; Publisher ^</p> <p>6419 Microsoft Excel &amp; Access ^</p> <p>8510 Project Management I</p> <p>8721 Principles of Business &amp; Finance (BFIT &amp; MEE)</p> <p>8726 Personal Finance (BFIT, FACS &amp; MEE)</p> <p>8595 CTE Advanced Studies</p> <p>8596 DOL Apprenticeship</p> <p>8597 CTE Internship</p> <p>8598 CTE Community College</p> <p>8599 CTE University</p>


# North Carolina Career Clusters

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Middle School Courses	Pathways	 Cluster Foundation Courses				Cluster Enhancement Courses
6158 Exploring Career Decisions  6207 Computer Skills & Applications  7018 Exploring Life Skills  7205 Exploring Biotechnology in Health Science	<b>Therapeutic Services</b>  <b>Diagnostic Services</b>  <b>Health Informatics</b>  <b>Support Services</b>	7200 Biomedical Technology  7210 Health Team Relations	7240 Health Science I	7242 Health Science II*	7243 Nursing Fundamentals (2 credits)  7244 Fundamentals of Gerontology ^  7232 Pharmacy Technician ^  7245 Public Health Fundamentals ^	6145 Career Management 6417 Microsoft Word, PowerPoint, & Publisher ^ 6419 Microsoft Excel & Access ^ 6621 Marketing 6871 Biotechnology & Agriscience Research I 7045 Foods I 7065 Parenting & Child Development 8716 Entrepreneurship I (BFIT & MEE) 8721 Principles of Business & Finance (BFIT & MEE) 8726 Personal Finance (BFIT, FACS & MEE)
	<b>Biotechnology Research &amp; Development</b>	7270 PLTW Principles of Biomedical Sciences ^	7271 PLTW Human Body Systems * ^	7272 PLTW Medical Interventions ^	7273 PLTW Biomedical Innovations ^	8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University

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Middle School Courses	Pathways	 Cluster Foundation Courses				Cluster Enhancement Courses
6158 Exploring Career Decisions  6207 Computer Skills & Applications  6208 Exploring Business, Marketing & Entrepreneurship (BFIT & MEE)  7018 Exploring Life Skills	<b>Restaurants &amp; Food/Beverage Service</b>	7045 Foods I	7120 Introduction to Culinary Arts & Hospitality	7121 Culinary Arts & Hospitality I (1 credit)	7122 Culinary Arts & Hospitality II * (2 credits)	6145 Career Management
			7171 ProStart I ^	7172 ProStart II * ^		6417 Microsoft Word, PowerPoint, & Publisher ^
	<b>Travel &amp; Tourism</b>	6670 Sports & Entertainment Marketing I	6671 Sports & Entertainment Marketing II*	8716 Entrepreneurship I (BFIT & MEE)	8717 Entrepreneurship II * (BFIT & MEE)	6419 Microsoft Excel & Access ^
			6645 Hospitality and Tourism *			
		6621 Marketing	6645 Hospitality and Tourism *	8716 Entrepreneurship I (BFIT & MEE)	8717 Entrepreneurship II * (BFIT & MEE)	6825 Equine Science I
				8510 Project Management I	8511 Project Management II – Global *	6911 Agribusiness Management, Trends & Issues I
National Academy Foundation – Academy of Hospitality & Tourism ^						7075 Foods II-Technology
						8721 Principles of Business & Finance (BFIT & MEE)
						8726 Personal Finance (BFIT, FACS & MEE)
						8595 CTE Advanced Studies
						8596 DOL Apprenticeship
						8597 CTE Internship
						8598 CTE Community College
						8599 CTE University

*Additional pathways*

Lodging  
Recreation, Amusements & Attractions

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6158 Exploring Career Decisions  6207 Computer Skills & Applications  6208 Exploring Business, Marketing & Entrepreneurship (BFIT & MEE)  7018 Exploring Life Skills  8201 Technology Design & Innovation	<b>Early Childhood Development &amp; Services</b>	7015 Teen Living  -----  8726 Personal Finance (BFIT, FACS, & MEE)	7065 Parenting & Child Development	7111 Early Childhood Education I	7112 Early Childhood Education II *	6145 Career Management 6417 Microsoft Word, PowerPoint, & Publisher ^ 6419 Microsoft Excel & Access ^ 7045 Foods I 8716 Entrepreneurship I (BFIT & MEE) 8721 Principles of Business & Finance (BFIT & MEE) 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University

*Additional pathways* Counseling & Mental Health Services  
 Family & Community Services  
 Personal Care Services  
 Consumer Services


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6158 Exploring Career Decisions  6207 Computer Skills & Applications  6208 Exploring Business, Marketing & Entrepreneurship (BFIT & MEE)  8201 Technology Design & Innovation	<b>Programming &amp; Software Development</b>	8811 Foundations of Information Technology (BFIT & T&I)	6421 Computer Programming I	6422 Computer Programming II* 6428 SAS Programming I * ^ 6451 Oracle Database Programming I ^	2508 AP Computer Science ^ 6429 SAS Programming II ^ 6452 Oracle Database Programming II* ^	6145 Career Management 6417 Microsoft Word, PowerPoint, & Publisher ^ 6419 Microsoft Excel & Access ^ 8716 Entrepreneurship I (BFIT & MEE) 8721 Principles of Business & Finance (BFIT & MEE) 8726 Personal Finance (BFIT, FACS & MEE) 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University	
	<b>Web &amp; Digital Communications</b>	6414 Multimedia & Webpage Design (BFIT & T&I)	6415 e-Commerce I *	6416 e-Commerce II			
	<b>Information Support &amp; Services</b>	8811 Foundations of Information Technology (BFIT & T&I)	7991 Computer Engineering Technology I (BFIT & T&I)	7992 Computer Engineering Technology II * (BFIT & T&I)			
	<b>Network Systems</b>	8811 Foundations of Information Technology (BFIT & T&I)	7980 Network Engineering Technology I	7981 Network Engineering Technology II *	7982 Network Engineering Technology III		
			6342 Network Administration I ^	6347 Network Administration II * ^	6348 Network Administration III ^		
			8510 Project Management I	8511 Project Management II – Global *	8513 Project Management III		
				8512 Project Management II – Technology *			
	National Academy Foundation – Academy of Information Technology ^						

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6158 Exploring Career Decisions  6207 Computer Skills & Applications  8201 Technology Design & Innovation	<b>Emergency &amp; Fire Management Services</b>   <b>Law Enforcement Services</b>	7834 Introduction to Public Safety	7835 Fire Fighter Technology I ^	7836 Fire Fighter Technology II * ^	7837 Fire Fighter Technology III ^	6145 Career Management 6417 Microsoft Word, PowerPoint, & Publisher ^ 6419 Microsoft Excel & Access ^ 8716 Entrepreneurship I (BFIT & MEE) 8721 Principles of Business & Finance (BFIT & MEE) 8726 Personal Finance (BFIT, FACS & MEE) 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University

*Additional pathways*  
 Correction Services  
 Security & Protective Services  
 Law Enforcement Services  
 Legal Services

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6158 Exploring Career Decisions  6207 Computer Skills & Applications  6208 Exploring Business, Marketing & Entrepreneurship (BFIT & MEE)  8201 Technology Design & Innovation	<b>Production</b>	7621 Cabinetmaking I	7622 Cabinetmaking II * (1 credit)	7623 Cabinetmaking III (1 credit)		6145 Career Management 6414 Multimedia & Webpage Design  6417 Microsoft Word, PowerPoint, & Publisher ^  6419 Microsoft Excel & Access ^  6621 Marketing 6831 Agricultural Mechanics I 8716 Entrepreneurship I (BFIT & MEE) 8721 Principles of Business & Finance (BFIT & MEE) 8726 Personal Finance (BFIT, FACS & MEE) 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University	
		7661 Welding Technology I	7662 Welding Technology II * (1 credit)	7663 Welding Technology III (1 credit)			
		7641 Metals Manufacturing Technology I	7642 Metals Manufacturing Technology II * (2 credits)				
	<b>Manufacturing Production Process Development</b>	7621 Cabinetmaking I	8510 Project Management I	8511 Project Management II – Global *			8513 Project Management III
		7661 Welding Technology I		8512 Project Management II – Technology *			
		7641 Metals Manufacturing Technology I					
	<b>Maintenance, Installation, &amp; Repair</b>		7631 Electronics I ^	7632 Electronics II* ^	7633 Electronics III ^		

*Additional pathways*    Quality Assurance  
 Logistics & Inventory Control  
 Health, Safety & Environmental Assurance

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6158 Exploring Career Decisions  6207 Computer Skills & Applications  6208 Exploring Business, Marketing & Entrepreneurship (BFIT & MEE)	<b>Marketing Management</b>	6621 Marketing	8510 Project Management I	8511 Project Management II – Global *	8513 Project Management III	6145 Career Management 6417 Microsoft Word, PowerPoint, & Publisher ^ 6419 Microsoft Excel & Access ^ 6512 Business Law 6911 Agribusiness Management, Trends & Issues I 7035 Apparel I 8721 Principles of Business & Finance (BFIT & MEE) 8726 Personal Finance (BFIT, FACS & MEE) 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University	
				8512 Project Management II – Technology *			
			6622 Marketing Management *	8716 Entrepreneurship I (BFIT & MEE)	8717 Entrepreneurship II * (BFIT & MEE)		
	<b>Merchandising</b>	6631 Fashion Merchandising (FACS & MEE)	6622 Marketing Management *	8716 Entrepreneurship I (BFIT & MEE)	8717 Entrepreneurship II * (BFIT & MEE)		
				6626 Strategic Marketing			
	<b>Professional Sales</b>	6621 Marketing	6622 Marketing Management *	8716 Entrepreneurship I (BFIT & MEE)	8717 Entrepreneurship II * (BFIT & MEE)		
				6626 Strategic Marketing			

*Additional pathways*    Marketing Communications  
 Marketing Research

# North Carolina Career Clusters

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6158 Exploring Career Decisions  6207 Computer Skills & Applications  8056 PLTW Gateway to Technology  8201 Technology Design & Innovation  8203 Technological Systems	<b>Engineering &amp; Technology</b>	7921 Drafting I	7972 Drafting II – Engineering *	7973 Drafting III – Engineering		6145 Career Management 6414 Multimedia & Webpage Design 6417 Microsoft Word, PowerPoint, & Publisher ^ 6419 Microsoft Excel & Access ^ 6841 Horticulture I 6871 Biotechnology & Agriscience Research I 8716 Entrepreneurship I (BFIT & MEE) 8721 Principles of Business & Finance (BFIT & MEE) 8726 Personal Finance (BFIT, FACS & MEE) 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University
		8210 Technology Engineering & Design ^	8211 Technological Design * ^	8212 Engineering Design * ^		
		8020 PLTW Introduction to Engineering Design ^	8022 PLTW Digital Electronics * ^	8040 PLTW Engineering Design & Development ^		
		8021 PLTW Principles of Engineering I ^	8030 PLTW Computer Integrated Manufacturing * ^			
			8031 PLTW Civil Engineering & Architecture * ^			
			8032 PLTW Biotechnical * ^			
	8033 PLTW Aerospace Engineering * ^					
	7921 Drafting I	8510 Project Management I	8511 Project Management II – Global *	8513 Project Management III		
	8210 Technology Engineering & Design ^		8512 Project Management II – Technology *			
	<b>Science &amp; Mathematics</b>	8210 Technology Engineering & Design ^	8006 Scientific & Technical Visualization I	8007 Scientific & Technical Visualization II *		
		8011 Principles of Technology I	8012 Principles of Technology II *			

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6158 Exploring Career Decisions  6208 Exploring Business, Marketing & Entrepreneurship (BFIT & MEE)  6207 Computer Skills & Applications  8201 Technology Design & Innovation	<b>Facility &amp; Mobile Equipment Maintenance</b>	7511 Automotive Service ^	7512 Automotive Brakes ^ (1 credit)	7513 Automotive Computer System Diagnostics * ^ (1 credit)		6145 Career Management 6417 Microsoft Word, PowerPoint, & Publisher ^ 6419 Microsoft Excel & Access ^ 6831 Agricultural Mechanics I 6911 Agribusiness Management, Trends & Issues I 8721 Principles of Business & Finance (BFIT & MEE) 8726 Personal Finance (BFIT, FACS & MEE) 8595 CTE Advanced Studies 8596 DOL Apprenticeship 8597 CTE Internship 8598 CTE Community College 8599 CTE University
			7514 Automotive Electrical ^ (1 credit)	7515 Automotive Advanced Electrical * ^ (1 credit)		
	<b>Logistics Planning &amp; Management Services</b>	6621 Marketing	6622 Marketing Management *	8716 Entrepreneurship I (BFIT & MEE)	8717 Entrepreneurship II * (BFIT & MEE)	
			6626 Strategic Marketing	8511 Project Management II – Global *	8513 Project Management III	
			8510 Project Management I	8512 Project Management II – Technology *		

*Additional pathways*    Health, Safety, & Environmental Management  
 Transportation Operations  
 Transportation Systems/Infrastructure Planning, Management, and Regulations  
 Sales and Service