

North Carolina Career Clusters

11/21/2008



Earning a Concentration in Career and Technical Education in North Carolina

Beginning with the freshman class of 2009-2010, North Carolina students must meet Future Ready Core graduation requirements. These requirements encourage students to use their four required elective credits to complete a concentration in an area of special interest such as Career and Technical Education (CTE) by earning at least four credits in a discipline, including one at an advanced level.

To qualify as a CTE concentrator for graduation and for federal reporting purposes, students must earn four credits within one of the 16 Career Clusters. The attached charts define how the Career Clusters will be implemented in North Carolina. Career Clusters represent broad occupational areas. Each Career Cluster is made up of multiple related pathways, which are sub-groupings of occupations/career specialties that require a set of common knowledge and skills for career success. Each pathway contains multiple specific occupations/career specialties.

Students will work with their Career Development Coordinator, school counselor or CTE teacher to determine which courses can help them focus on career interests and postsecondary goals. Students choose at least three technical credits from the Foundational courses within the Career Cluster. Their fourth technical credit can be either a Foundational or an Enhancement course. Students must select courses that work together to prepare them for careers or further education. At least one of the Foundational technical

credits must be at the completer level. Completer courses, identified with an asterisk on the accompanying charts, are considered to be at the capstone level. Completer courses appear in only one cluster. Enhancement courses can be from any program area within the cluster.

For approved courses that are not supported in the 2002 NC CTE Standard Course of Study, students may design a customized program that combines directly related pilot courses, local option courses, and community college and university courses.

Department of Labor Registered Apprenticeship courses available in each program area can count as a completer course the second year the student participates. Manual override is required.

Courses that can be taught in more than one program area are listed in the area that has primary responsibility for that content.

Students are encouraged to take additional technical credits beyond the four-credit requirement to qualify as a concentrator. Students should work with their Career Development Coordinator or school counselor to determine which additional courses are most appropriate based on their career interests and postsecondary goals.

The attached charts include only courses from the 2002 Standard Course of Study. Additional documentation will provide information on how to include pilot and local option courses. As a general rule, university and community college courses are designed to enhance Foundational offerings. Community college and university courses can count as Foundational technical credits if they provide core content for the cluster, but manual overrides will be required.

In the 2002 NC CTE Standard Course of Study, ***the following Career Clusters are not currently supported: Education and Training, Government and Public Administration, and Public Safety.*** Students can complete a Career Cluster in these areas by combining local option courses, community college and university dual enrollment courses, and selected enhancement courses. These Career Clusters are being considered for inclusion in the upcoming revision of the Standard Course of Study.

For more information on the Career Clusters, contact your program area representative or careerclusters@dpi.state.nc.us.

North Carolina Career Cluster

Agriculture, Food and Natural Resources

Related Pathways

- Agribusiness Systems
- Animal Systems
- Environmental Service Systems
- Plan Systems
- Food Products and Processing Systems
- Power, Structural and Technical Systems
- Natural Resources Systems

CTE Program Areas	CONCENTRATION (Four total credits required)			
	Foundational Courses		Career Cluster Enhancement Courses	
AGRICULTURAL EDUCATION	6810 Agriscience Applications 6811 Agriculture Production I 6812* Agriculture Production II 6821 Animal Science I 6822* Animal Science II 6822* Animal Science II – Small Animals 6825 Equine Science I 6826* Equine Science II 6831 Agricultural Mechanics I 6832* Agricultural Mechanics II 6833* Agricultural Mechanics II – Small Engines	6841 Horticulture I 6842* Horticulture II 6843* Horticulture II – Turf Grass 6851 Environmental & Natural Resources Studies I 6852* Environmental & Natural Resources Studies II 6871 Biotechnology & Agriscience Research I 6872* Biotechnology & Agriscience Research II 6882* Horticulture II – Landscape Construction 6896 Agricultural Education Department of Labor Registered Apprenticeship 6897 Agricultural Education Cooperative Education 6899* Agricultural Education Advanced Studies		6898 Agricultural Education Internship 6998 University – Agricultural Education 6999 Community College – Agricultural Education
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION				6200/6600 Principles of Business & Personal Finance 6215 Business Law 6225 Business Management & Applications 6227/6640 International Baccalaureate Business Management 6311 Computerized Accounting I 6411 Computer Applications I 6514 Digital Communications Systems 6145 Career Management
CAREER DEVELOPMENT				
FAMILY AND CONSUMER SCIENCES EDUCATION	7015 Teen Living 7045 Foods I – Fundamentals 7046* Foods II – Advanced 7075* Foods II – Food Science	7196 Family & Consumer Sciences Education Department of Labor Registered Apprenticeship 7197 Family & Consumer Sciences Education Cooperative Education 7199* Family & Consumer Sciences Education Advanced Studies		7085 Life Management 7098 University – Family & Consumer Sciences Education 7099 Community College – Family & Consumer Sciences Education 7198 Family & Consumer Sciences Education Internship
HEALTH OCCUPATIONS				7200 Biomedical Technology 7270 PLTW Principles of Biomedical Sciences
MARKETING EDUCATION				6235/6615 Small Business Entrepreneurship 6621 Marketing 6626 Strategic Marketing
TECHNOLOGY EDUCATION				8020 Introduction to Engineering and Design 8110 Fundamentals of Technology
TRADE AND INDUSTRIAL EDUCATION				7511 Automotive Service Technology I 7661 Welding Technology I 7921 Drafting I

To earn a concentration for graduation and CTE federal reporting purposes:

- The student must take at least four technical credits from among the courses listed in the Career Cluster.
- At least three of the technical credits must come from among the Foundational courses listed.
- At least one of the Foundational courses must be at the completer level, identified by an asterisk on the chart above.
- The fourth technical credit can be either a Foundational or Enhancement course.
- Enhancement courses can be from any program area identified in the Career Cluster.



North Carolina Career Cluster Architecture and Construction

Related Pathways

**Design and Pre-Construction
Construction
Maintenance and Operations**

CTE Program Areas	CONCENTRATION (Four total credits required)	
	Foundational Courses	
AGRICULTURAL EDUCATION		
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION		
CAREER DEVELOPMENT		
FAMILY AND CONSUMER SCIENCES EDUCATION	7015 Teen Living 7055 Housing & Interiors I 7956* Housing & Interiors II	7196 Family & Consumer Sciences Education Department of Labor Registered Apprenticeship 7197 Family & Consumer Sciences Education Cooperative Education 7199* Family & Consumer Sciences Education Advanced Studies
MARKETING EDUCATION		
TECHNOLOGY EDUCATION		
TRADE AND INDUSTRIAL EDUCATION	7400 Introduction to Trade & Industrial Education 7621 Cabinetmaking I 7622* Cabinetmaking II 7661 Welding I 7711 Masonry I 7712* Masonry II 7712 Masonry III 7721 Construction Technology I 7722* Construction Technology II 7723 Construction Technology III	7741 Electrical Trades I 7742* Electrical Trades II 7821 Trade & Industrial Cooperative Training I 7921 Drafting I 7962* Drafting – Architectural II 7963 Drafting – Architectural III 7996 Trade & Industrial Education Department of Labor Registered Apprenticeship 7997 Trade & Industrial Education Cooperative Education 7999* Trade & Industrial Education Advanced Studies

Career Cluster Enhancement Courses
6831 Agricultural Mechanics I
6200/6600 Principles of Business & Personal Finance 6215 Business Law 6225 Business Management & Applications 6227/6640 International Baccalaureate Business Management 6411 Computer Applications I
6145 Career Management
7055 Life Management 7098 University – Family & Consumer Sciences Education 7099 Community College – Family & Consumer Sciences Education 7198 Family & Consumer Sciences Education Internship
6235/6615 Small Business Entrepreneurship
8020 PLTW Introduction to Engineering 8021 PLTW Principles of Engineering 8110 Fundamentals of Technology 8141 Structural Systems
7898 University – Trade & Industrial Education 7899 Community College – Trade & Industrial Education 7998 Trade & Industrial Education Internship

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* Completer course

North Carolina Career Cluster

Arts, Audio/Video Technology and Communications

Related Pathways

Audio and Video Technology and Film
 Journalism and Broadcasting
 Performing Arts
 Printing Technology
 Telecommunications
 Visual Arts

CTE Program Areas	CONCENTRATION (Four total credits required)			
	Foundational Courses		Career Cluster Enhancement Courses	
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION				6200/6600 Principles of Business & Personal Finance 6215 Business Law 6225 Business Management 6227/6640 International Baccalaureate Business Management 6411 Computer Applications I 6514 Digital Communication Systems
CAREER DEVELOPMENT				6145 Career Management
FAMILY AND CONSUMER SCIENCES EDUCATION	7015 Teen Living 7035 Apparel Development I 7036* Apparel Development II		7196 Family & Consumer Sciences Education Department of Labor Registered Apprenticeship 7197 Family & Consumer Sciences Education Cooperative Education 7199* Family & Consumer Sciences Education Advanced Studies	7055 Housing & Interior Design I 7098 University – Family & Consumer Sciences Education 7099 Community College – Family & Consumer Sciences Education 7198 Family & Consumer Sciences Education Internship
MARKETING EDUCATION				6235/6615 Small Business Entrepreneurship 6631 Fashion Merchandising
TECHNOLOGY EDUCATION				8110 Fundamentals of Technology 8125 Communications Systems
TRADE AND INDUSTRIAL EDUCATION	7400 Introduction to Trade & Industrial Education 7821 Trade & Industrial Cooperative Training I 7901/8006 Scientific & Technical Visualization I 7911 Printing Graphics I 7912* Printing Graphics II 7921 Drafting I		7935 Digital Media I 7936* Digital Media II 7996 Trade & Industrial Education Department of Labor Registered Apprenticeship 7997 Trade & Industrial Education Cooperative Education 7999* Trade & Industrial Education Advanced Studies	7898 University – Trade & Industrial Education 7899 Community College – Trade & Industrial Education 7998 Trade & Industrial Education Internship

To earn a concentration for graduation and CTE federal reporting purposes:

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North Carolina Career Cluster

Business Management and Administration

Related Pathways

Administrative Services
 Business Information Technology
 General Management
 Human Resources Management
 Operations Management

CTE Program Areas	CONCENTRATION (Four total credits required)		
	Foundational Courses		Career Cluster Enhancement Courses
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION	6200/6600 Principles of Business & Personal Finance 6215 Business Law 6225* Business Management & Applications 6227/6640* International Baccalaureate Business Management 6235/6615 Small Business Entrepreneurship 6311 Computerized Accounting I 6411 Computer Applications I 6412* Computer Applications II	6514 Digital Communication Systems 6596 Business & Information Technology Education Department of Labor Registered Apprenticeship 6597 Business & Information Technology Education Cooperative Education 6599* Business & Information Technology Education Advanced Studies	6341 Networking I 6415 eCommerce I 6498 University – Business & Marketing 6499 Community College – Business & Marketing 6598 Business & Information Technology Education Internship
CAREER DEVELOPMENT			6145 Career Management
MARKETING EDUCATION			6626 Strategic Marketing
TRADE AND INDUSTRIAL EDUCATION			7935 Digital Media I 7980 Networking I 7991 Computer Engineering Technology I

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* Completer course

North Carolina Career Cluster

Finance

Related Pathways

Accounting
 Banking Services
 Business Finance
 Insurance
 Securities and Investments

CONCENTRATION (Four total credits required)			
CTE Program Areas	Foundational Courses		Career Cluster Enhancement Courses
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION	6200/6600 Principles of Business & Personal Finance 6215 Business Law 6235/6615 Small Business Entrepreneurship 6311 Computerized Accounting I 6312* Computerized Accounting II	6596 Business & Information Technology Education Department of Labor Registered Apprenticeship 6597 Business & Information Technology Education Cooperative Education 6599* Business & Information Technology Education Advanced Studies	6225 Business Management & Applications 6227/6640 International Baccalaureate Business Management 6411 Computer Applications I 6498 University – Business & Marketing 6499 Community College – Business & Marketing 6598 Business & Information Technology Education Internship
	Partnering opportunities: NAF Academy of Finance courses can meet requirements for Foundational courses in this cluster		
CAREER DEVELOPMENT			6145 Career Management
FAMILY AND CONSUMER SCIENCES EDUCATION			7015 Teen Living 7085 Life Management

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- Enhancement courses can be from any program area identified in the Career Cluster.



North Carolina Career Cluster Health Science

Related Pathways

Therapeutic Services
Diagnostic Services
Health Informatics
Support Services
Biotechnology Research and Development

CTE Program Areas		CONCENTRATION (Four total credits required)	
		Foundational Courses	Career Cluster Enhancement Courses
AGRICULTURAL EDUCATION			6871 Biotechnology & Agriscience Research I
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION			6200/6600 Principles of Business & Personal Finance 6215 Business Law 6225 Business Management & Applications 6227/6640 International Baccalaureate Business Management 6311 Accounting I 6411 Computer Applications I 6514 Digital Communication Systems
CAREER DEVELOPMENT			6145 Career Management
FAMILY AND CONSUMER SCIENCES EDUCATION			7045 Foods I – Fundamentals
HEALTH OCCUPATIONS	7200 Biomedical Technology 7210 Health Team Relations 7211 Allied Health Sciences I 7212* Allied Health Sciences II 7221 Medical Sciences I 7222* Medical Sciences II 7296 Health Sciences Department of Labor Registered Apprenticeship 7299* Health Sciences Advanced Studies	Project Lead the Way (PLTW) 7270 PLTW Principles of Biomedical Sciences 7271 PLTW Human Body Systems 7272 PLTW Medical Intervention 7273 PLTW Science Research	7298 Health Careers Internship 7398 University – Health Sciences Education 7399 Community College – Health Sciences Education
MARKETING EDUCATION			6235/6615 Small Business Entrepreneurship 6621 Marketing
TECHNOLOGY EDUCATION			7901/8006 Scientific & Technical Visualization

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- At least one of the Foundational courses must be at the completer level, identified by an asterisk on the chart above.
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- Enhancement courses can be from any program area identified in the Career Cluster.



North Carolina Career Cluster Hospitality and Tourism

Related Pathways

Lodging
Travel and Tourism
Recreation, Amusements and Attractions
Restaurants and Food and Beverage
Service

CTE Program Areas		CONCENTRATION (Four total credits required)	
		Foundational Courses	Career Cluster Enhancement Courses
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION			6200/6600 Principles of Business & Personal Finance 6215 Business Law 6225 Business Management & Applications 6227/6640 International Baccalaureate Business Management 6411 Computer Applications I 6514 Digital Communications Systems
CAREER DEVELOPMENT			6145 Career Management
FAMILY AND CONSUMER SCIENCES EDUCATION	7015 Teen Living 7045 Foods I – Fundamentals 7121 Culinary Arts & Hospitality I 7122* Culinary Arts & Hospitality II	7196 Family & Consumer Sciences Education Department of Labor Registered Apprenticeship 7197 Family & Consumer Sciences Education Cooperative Education 7199* Family & Consumer Sciences Education Advanced Studies	7085 Life Management 7098 University – Family & Consumer Sciences Education 7099 Community College – Family & Consumer Sciences Education 7198 Family & Consumer Sciences Education Internship
MARKETING EDUCATION	6621 Marketing 6645* Travel/Tourism & Recreation Marketing 6670 Sports & Entertainment Marketing I 6671* Sports & Entertainment Marketing II	6696 Marketing Education Department of Labor Registered Apprenticeship 6697 Marketing Education Cooperative Education 6699* Marketing Education Advanced Studies	6235/6615 Small Business Entrepreneurship 6498 University – Business & Marketing 6499 Community College – Business & Marketing 6698 Marketing Education Internship
	Partnering opportunities: NAF Academy of Hospitality and Tourism courses can meet requirements for Foundational courses in this cluster.		

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North Carolina Career Cluster Human Services

Related Pathways

Consumer Services
Counseling and Mental Health Services
Early Childhood Development and Services
Family and Community Services
Personal Care Services

CTE Program Areas	CONCENTRATION (Four total credits required)			
	Foundational Courses		Career Cluster Enhancement Courses	
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION				6200/6600 Principles of Business & Personal Finance 6215 Business Law 6225 Business Management & Applications 6227/6640 International Baccalaureate Business Management 6411 Computer Applications I 6514 Digital Communication Systems 6145 Career Management
CAREER DEVELOPMENT				
FAMILY AND CONSUMER SCIENCES EDUCATION	7015 Teen Living 7065 Parenting & Child Development 7085 Life Management 7111 Early Childhood Education I 7112* Early Childhood Education II		7196 Family & Consumer Sciences Education Department of Labor Registered Apprenticeship 7197 Family & Consumer Sciences Education Cooperative Education 7199* Family & Consumer Sciences Education Advanced Studies	7098 University – Family & Consumer Sciences Education 7099 Community College – Family & Consumer Sciences Education 7198 Family & Consumer Sciences Education Internship 7210 Health Team Relations
HEALTH OCCUPATIONS				
MARKETING EDUCATION				6235/6615 Small Business Entrepreneurship
TRADE AND INDUSTRIAL EDUCATION	7400 Introduction to Trade & Industrial Education 7810 Cosmetology – Introduction 7811 Cosmetology I 7812* Cosmetology II 7813 Cosmetology III		7821 Trade & Industrial Education Cooperative Training I 7996 Trade & Industrial Education Department of Labor Registered Apprenticeship 7998 Trade & Industrial Education Cooperative Education 7999* Trade & Industrial Education Advanced Studies	7898 University – Trade & Industrial Education 7899 Community College – Trade & Industrial Education 7998 Trade & Industrial Education Internship

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- The fourth technical credit can be either a Foundational or Enhancement course.
- Enhancement courses can be from any program area identified in the Career Cluster.



North Carolina Career Cluster Information Technology

Related Pathways

Information Support and Services
Network Systems
Programming and Software Development
Web and Digital Communication

CTE Program Areas	CONCENTRATION (Four total credits required)			
	Foundational Courses		Career Cluster Enhancement Courses	
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION	2508 AP Computer Science A 6341 Networking I 6345* Network Administration II – Linux 6346* Network Administration II – Novell 6347* Network Administration II – Microsoft 6411 Computer Applications I 6415 eCommerce I 6416* eCommerce II 6421 Computer Programming I – VB.NET 6422* Computer Programming II – VB.NET 6426 Computer Programming I – Other Languages 6427* Computer Programming ii – Other Languages	6430 International Baccalaureate Information Technology 6451 Database Programming I – Oracle 6452* Database Programming II – Oracle 6514 Digital Communication Systems 6596 Business & Information Technology Education Department of Labor Registered Apprenticeship 6597 Business & Information Technology Education Cooperative Education 6599* Business & Information Technology Education Advanced Studies	6200/6600 Principles of Business & Personal Finance 6412 Computer Applications II 6498 University – Business & Marketing 6499 Community College – Business & Marketing 6598 Business & Information Technology Education Internship	
	Partnering opportunities: NAF Academy of Information Technology courses can meet requirements for Foundational courses in this cluster.			
CAREER DEVELOPMENT			6145 Career Management	
MARKETING EDUCATION			6235/6615 Small Business Entrepreneurship	
TECHNOLOGY EDUCATION			7901/8006 Scientific & Technical Visualization I 8110 Fundamentals of Technology 8125 Communication Systems	
TRADE AND INDUSTRIAL EDUCATION	7400 Introduction to Trade & Industrial Education 7980 Networking I 7981* Network Engineering Technology II – Cisco 7982 Network Engineering Technology III – Cisco 7983* Network Engineering Technology II – Nortel 7984 Network Engineering Technology III – Nortel	7991 Computer Engineering Technology I 7992* Computer Engineering Technology II 7996 Trade & Industrial Education Department of Labor Registered Apprenticeship 7997 Trade & Industrial Education Cooperative Education 7999* Trade & Industrial Education Advanced Studies	7898 University – Trade & Industrial Education 7899 Community College – Trade & Industrial Education 7921 Drafting I 7935 Digital Media I 7998 Trade & Industrial Education Internship	

To earn a concentration for graduation and CTE federal reporting purposes:

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- Enhancement courses can be from any program area identified in the Career Cluster.

* Completer course



North Carolina Career Cluster

Manufacturing

Related Pathways

Manufacturing Production Process
Production
Maintenance, Installation and Repair
Quality Assurance
Logistics and Inventory Control
Health, Safety and Environmental Assurance

CTE Program Areas	CONCENTRATION (Four total credits required)	
	Foundational Courses	
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION		
CAREER DEVELOPMENT		
MARKETING EDUCATION		
TECHNOLOGY EDUCATION		
TRADE AND INDUSTRIAL EDUCATION	7400 Introduction to Trade & Industrial Education 7621 Furniture & Cabinet Making I 7631 Electronics I 7641 Metals Manufacturing I 7642* Metals Manufacturing II 7661 Welding I 7662* Welding II	7821 Trade & Industrial Cooperative Training I 7822* Trade & Industrial Cooperative Training II 7921 Drafting I 7996 Trade & Industrial Education Department of Labor Registered Apprenticeship 7997 Trade & Industrial Education Cooperative Education 7999* Trade & Industrial Education Advanced Studies

Career Cluster Enhancement Courses	
6225 Business Management & Applications 6227/6640 International Baccalaureate Business Management 6411 Computer Applications I 6415 eCommerce I 6514 Digital Communication Systems 6145 Career Management	
6235/6615 Small Business Entrepreneurship 6621 Marketing 6626 Strategic Marketing 8110 Fundamentals of Technology 8115 Manufacturing Systems Partnering opportunities for Project Lead the Way (PLTW) courses can meet requirements for enhancement courses for this cluster.	
7898 University – Trade & Industrial Education 7899 Community College – Trade & Industrial Education 7998 Trade & Industrial Education Internship	

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- Enhancement courses can be from any program area identified in the Career Cluster.



* Completer course

North Carolina Career Cluster Marketing

Related Pathways

Marketing Communications
Marketing Management
Marketing Research
Merchandising
Professional Sales

CTE Program Areas	CONCENTRATION (Four total credits required)	
	Foundational Courses	Career Cluster Enhancement Courses
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION		6200/6600 Principles of Business & Personal Finance 6215 Business Law 6311 Computerized Accounting I 6411 Computer Applications I 6415 eCommerce I 6514 Digital Communication Systems
CAREER DEVELOPMENT		6145 Career Management
MARKETING EDUCATION	6235/6615* Small Business Entrepreneurship 6621 Marketing 6622* Marketing Management 6626 Strategic Marketing 6631 Fashion Merchandising 6665* Marketing Technology & Media 6670 Sports & Entertainment Marketing I	6696 Marketing Education Department of Labor Registered Apprenticeship 6697 Marketing Education Cooperative Education 6699* Marketing Education Advanced Studies
TRADE AND INDUSTRIAL EDUCATION		6498 University – Business & Marketing 6499 Community College – Business & Marketing 6698 Marketing Education Internship 7935 Digital Media I

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North Carolina Career Cluster

Science, Technology, Engineering and Mathematics

Related Pathways

Engineering and Technology
Science and Mathematics

CTE Program Areas	CONCENTRATION (Four total credits required)	
	Foundational Courses	Career Cluster Enhancement Courses
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION		6411 Computer Applications I 6514 Digital Communications Systems
CAREER DEVELOPMENT		6145 Career Management
TECHNOLOGY EDUCATION	8005* Technology Advanced Studies 7901/8006 Scientific & Technical Visualization I 7902/8007* Scientific & Technical Visualization II 8011 Principles of Technology I 8012* Principles of Technology II 8017 Physical Science/Principles of Technology I 8018* Physics/Principles of Technology II 8110 Fundamentals of Technology 8115* Manufacturing Systems 8125* Communication Systems 8126* Transportation Systems 8141* Structural Systems	8196 Technology Education Department of Labor Registered Apprenticeship Project Lead the Way (PLTW) 8020 PLTW Introduction to Engineering Design 8021 PLTW Principles of Engineering 8022 PLTW Digital Electronics 8030 PLTW Computer Integrated Manufacturing 8031 PLTW Civil Engineering & Architecture 8032 PLTW Biotechnical Engineering 8033 PLTW Aerospace Engineering 8040 PLTW Engineering Design & Development
TRADE AND INDUSTRIAL EDUCATION	7400 Introduction to Trade & Industrial Education 7631 Electronics I 7632* Electronics II 7821 Trade & Industrial Cooperative Training I 7921 Drafting I 7972* Drafting – Engineering II 7973 Drafting – Engineering III	7980 Networking I 7981 Network Engineering Technology I 7991 Computer Engineering Technology I 7996 Trade & Industrial Education Department of Labor Registered Apprenticeship 7997 Trade & Industrial Education Cooperative Education 7999* Trade & Industrial Education Advanced Studies
		6411 Computer Applications I 6514 Digital Communications Systems 6145 Career Management 8998 University – Technology Education 8999 Community College – Technology Education 8198 Technology Education Internship 7898 University – Trade & Industrial Education 7899 Community College – Trade & Industrial Education 7935 Digital Media I 7998 Trade & Industrial Education Internship

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- Enhancement courses can be from any program area identified in the Career Cluster.



North Carolina Career Cluster

Transportation, Distribution and Logistics

Related Pathways

Transportation Operations
 Logistics, Planning and Management Services
 Warehousing and Distribution Center Operations
 Facility and Mobile Equipment Maintenance
 Transportation Systems/Infrastructure Planning, Management and Regulations
 Health, Safety and Environmental Management
 Sales and Service

CTE Program Areas	CONCENTRATION (Four total credits required)		
	Foundational Courses		Career Cluster Enhancement Courses
BUSINESS AND INFORMATION TECHNOLOGY EDUCATION			6200/6600 Principles of Business & Personal Finance 6215 Business Law 6225 Business Management & Applications 6227/6640 International Baccalaureate Business Management 6311 Computerized Accounting I 6411 Computer Applications I 6514 Digital Communication Systems
CAREER DEVELOPMENT			6145 Career Management
MARKETING EDUCATION			6235/6615 Small Business Entrepreneurship 6621 Marketing
TECHNOLOGY EDUCATION			8110 Fundamentals of Technology 8126 Transportation Systems
TRADE AND INDUSTRIAL EDUCATION	7400 Introduction to Trade & Industrial Education 7511 Automotive Service Technology I 7512* Automotive Service Technology II 7513 Automotive Service Technology III 7521 Collision Repair Technology I 7522* Collision Repair Technology II	7821 Trade & Industrial Cooperative Training I 7996 Trade & Industrial Education Department of Labor Registered Apprenticeship 7997 Trade & Industrial Education Cooperative Education 7999* Trade & Industrial Education Advanced Studies	7898 University – Trade & Industrial Education 7899 Community College – Trade & Industrial Education 7998 Trade & Industrial Education Internship

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