

# COLLEGE TECH PREP CAREER CLUSTERS

*For students entering ninth grade for the first time in 2009-2010 or later*

## AGRICULTURE, FOOD AND NATURAL RESOURCES

To meet the requirements for CTP a student must complete the high school graduation requirements for UNC General Administration admissions and/or Community College and select four CTE credits from within a Career Cluster related to their post-secondary goals. At least three of the credits must come from foundational courses. At least one of the foundational courses must be at the completer level, identified by an asterisk. The fourth credit can be either a foundational or enhancement course.

### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Agriscience Applications  
 Animal Science I  
 Animal Science II\*-Small Animal  
 Agriscience Advanced Studies

#### Sequence II

Agriscience Applications  
 Horticulture I  
 Horticulture II\*  
 Small Business Entrepreneurship

#### Sequence III

Agriscience Applications  
 Horticulture I  
 Horticulture II-Landscape  
 Construction and Maintenance\*  
 Marketing

### Courses in the Agricultural, Food and Natural Resources Career Cluster

#### Foundational Courses

Agriscience Advanced Studies  
 Agriscience Applications  
 Animal Science I  
 Animal Science II - Large Animal \*  
 Animal Science II - Small Animal\*  
 Horticulture I  
 Honors Horticulture II\*  
 Horticulture II - Landscape Const\*

#### Credit

1  
1  
1  
1  
1  
1  
1  
1

#### Enhancement Courses

Automotive Technology I  
 Biomedical Technology  
 Business Law  
 Business Management & Applications  
 Computer Applications I  
 Computerized Accounting I  
 Digital Communication Systems  
 Drafting I  
 Fundamentals of Technology  
 Marketing

#### Credit

1  
1  
1  
1  
1  
1  
1  
1  
1  
1

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## ARCHITECTURE AND CONSTRUCTION

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### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Construction Technology I

Construction Technology II\*

Construction Technology III

#### Sequence II

Electrical Technology I

Electrical Technology II\*

#### Sequence III

Heating, Ventilation and Air Conditioning  
Technology I

Heating, Ventilation and Air Conditioning  
Technology II\*

#### Sequence IV

Masonry I

Masonry II\*

Masonry III

#### Sequence V

Fundamentals of Technology

Drafting I

Drafting-Architectural II\*

Drafting-Architectural III\*

### Courses in the Architecture and Construction Career Cluster

#### Foundational Courses

Construction Tech I

Construction Tech II\*

Construction Tech III

Drafting I

Drafting- Architectural II\*

Drafting -Architectural III

Electrical Technology I

Electrical Technology II\*

Heating, Ventilation, & Air Conditioning I

Heating, Ventilation, & Air Conditioning II\*

Masonry I

Masonry II\*

Masonry III

#### Credit

1

2

2

1

1

1

2

2

2

2

1

2

2

#### Enhancement Courses

Business Law

Business Management & App.

Computer Applications I

Fundamentals of Technology

Small Business Entrepreneurship

Housing & Interiors I

Housing & Interiors II

Family & Consumer Sciences Advanced Studies

#### Credit

1

1

1

1

1

1

1

1

1

1

1

1

1

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## ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

To meet the requirements for CTPa student must complete the high school graduation requirements for UNC General Administration admissions and/or Community College and select four CTE credits from within a Career Cluster related to their post-secondary goals. At least three of the credits must come from foundational courses. At least one of the foundational courses must be at the completer level, identified by an asterisk. The fourth credit can be either a foundational or enhancement course.

### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Fundamentals of Technology  
Digital Media I  
Digital Media II  
Scientific & Technical Visualization I

### Courses in the Arts, Audio/Video Technology and Communications Career Cluster

Foundational Courses	Credit	Enhancement Courses	Credit
Commercial Art II	1	Business Law	1
Digital Media 1	1	Business Management & App.	1
Digital Media II*	1	Communications Systems	1
Drafting I	1	Computer Applications I	1
Scientific & Technical Visualization I	1	Digital Communication Systems	1
		Fundamentals of Technology	1
		Small Business Entrepreneurship	1

## BUSINESS MANAGEMENT AND ADMINISTRATION

To meet the requirements for CTP a student must complete the high school graduation requirements for UNC General Administration admissions and/or Community College and select four CTE credits from within a Career Cluster related to their post-secondary goals. At least three of the credits must come from foundational courses. At least one of the foundational courses must be at the completer level, identified by an asterisk. The fourth credit can be either a foundational or enhancement course.

### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Computer Applications I  
Computer Applications II\*  
Business Law  
Small Business Entrepreneurship

#### Sequence II

Computer Applications I  
Computer Applications II\*  
Computerized Accounting I  
Business Management & Applications

#### Sequence III

Computer Applications I  
Computer Applications II\*  
Honors e-Commerce I  
Small Business Entrepreneurship

### Courses in the Business Management and Administration Career Cluster

Foundational Courses	Credit	Enhancement Courses	Credit
Business Law	1	Computer Engineering Tech I	1
Business Management & Applications*	1	Digital Media I	1
Computerized Accounting I	1	Honors e-Commerce I	1
Computer Applications I	1	Networking I	1
Computer Applications II*	1	Honors Strategic Marketing	1
Digital Communication Systems	1		
Small Business Entrepreneurship	1		
Business & Information Technology Advanced Studies	1		

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## FINANCE

To meet the requirements for CTP a student must complete the high school graduation requirements for UNC General Administration admissions and/or Community College and select four CTE credits from within a Career Cluster related to their post-secondary goals. At least three of the credits must come from foundational courses. At least one of the foundational courses must be at the completer level, identified by an asterisk. The fourth credit can be either a foundational or enhancement course.

### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Computerized Accounting I  
Honors Computerized Accounting II\*  
Business Law  
Small Business Entrepreneurship

#### Sequence II

Computer Applications I  
Computerized Accounting I  
Honors Computerized Accounting II\*  
Small Business Entrepreneurship

### Courses in the Finance Career Cluster

Foundational Courses	Credit	Enhancement Courses	Credit
Business Law	1	Business Management & Applications	1
Computerized Accounting I	1	Computer Applications I	1
Honors Computerized Accounting II*	1		
Small Business Entrepreneurship	1		
Business & Information Technology Advanced Studies	1		

## HEALTH SCIENCE

To meet the requirements for CTP a student must complete the high school graduation requirements for UNC General Administration admissions and/or Community College and select four CTE credits from within a Career Cluster related to their post-secondary goals. At least three of the credits must come from foundational courses. At least one of the foundational courses must be at the completer level, identified by an asterisk. The fourth credit can be either a foundational or enhancement course.

### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Biomedical Technology  
Medical Careers I  
Medical Careers II\*  
Honors Medical Sciences II\*

#### Sequence II

Biomedical Technology  
Health Team Relations  
Medical Careers I  
Pharmacy Technology

#### Sequence III

Biomedical Technology  
Health Team Relations  
Medical Careers I

### Courses in the Health Science Career Cluster

Foundational Courses	Credit	Enhancement Courses	Credit
Biomedical Technology	1	Business Law	1
Health Team Relations	1	Business Management & Applications	1
Medical Careers I	1	Computerized Accounting I	1
Medical Careers II*	2	Computer Applications I	1
Honors Medical Science II*	1	Digital Communication Systems	1
Pharmacy Technician	1	Marketing	1
Medical Careers Advanced Studies	1	Scientific and Technical Visualization	1
		Small Business Entrepreneurship	1

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## HOSPITALITY AND TOURISM

To meet the requirements for CTP a student must complete the high school graduation requirements for UNC General Administration admissions and/or Community College and select four CTE credits from within a Career Cluster related to their post-secondary goals. At least three of the credits must come from foundational courses. At least one of the foundational courses must be at the completer level, identified by an asterisk. The fourth credit can be either a foundational or enhancement course.

### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Culinary Arts I  
Culinary Arts II\*

#### Sequence II

Computer Applications I  
Marketing  
Sports and Entertainment Marketing II  
Travel, Tourism & Recreation Marketing \*

### Courses in the Hospitality and Tourism Career Cluster

Foundational Courses	Credit	Enhancement Courses	Credit
Culinary Arts I	2	Business Law	1
Culinary Arts II*	2	Business Management & Applications	1
Marketing	1	Computer Applications I	1
Sports & Entertainment Mktg. II*	1	Digital Communication Systems	1
Travel, Tourism & Recreation Mktg.*	1	Small Business Entrepreneurship	1
Marketing Advanced Studies	1		
Family and Consumer Sciences Advanced Studies	1		

## HUMAN SERVICES

To meet the requirements for CTP a student must complete the high school graduation requirements for UNC General Administration admissions and/or Community College and select four CTE credits from within a Career Cluster related to their post-secondary goals. At least three of the credits must come from foundational courses. At least one of the foundational courses must be at the completer level, identified by an asterisk. The fourth credit can be either a foundational or enhancement course.

### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Early Childhood Education I  
Honors Early Childhood Education II\*

### Courses in Human Services Career Cluster

Foundational Courses	Credit	Enhancement Courses	Credit
Early Childhood Education I	2	Business Law	1
Honors Early Childhood Education II*	2	Business Management & Applications	1
Parenting & Child Development	1	Computer Applications I	1
Family and Consumer Sciences Advanced Studies	1	Digital Communication Systems	1
		Health Team Relations	1
		Small Business Entrepreneurship	1

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## INFORMATION TECHNOLOGY

To meet the requirements for CTP a student must complete the high school graduation requirements for UNC General Administration admissions and/or Community College and select four CTE credits from within a Career Cluster related to their post-secondary goals. At least three of the credits must come from foundational courses. At least one of the foundational courses must be at the completer level, identified by an asterisk. The fourth credit can be either a foundational or enhancement course.

### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Networking I  
Honors Networking II\* - Cisco  
Honors Networking III\* - Cisco  
Cisco Security

#### Sequence II

Networking I  
Computer Engineering Technology I  
Honors Computer Engineering Technology II\*  
Advanced Studies in Home Technology Integration

#### Sequence III

Computer Applications I  
Computer Applications II  
Honors e-Commerce I  
Honors e-Commerce II

#### Sequence IV

Networking I  
Network Administration II -  
Microsoft  
Network Administration II -  
Red Hat

#### Sequence V

Computer Programming I  
Computer Programming II\* VB.Net  
Computer Programming II\* Java  
Computer Programming II\* C++

#### Sequence VI

Computer Programming I  
SAS Programming I  
Database Programming I - Oracle  
Honors Database Programming II\*  
- Oracle and/or SAS Programming II -

### Courses in the Information Technology Career Cluster

Foundational Courses	Credit	Enhancement Courses	Credit
AP Computer Science A	1	Communications Systems	1
Adv. Stud. Home Tech. Integration	1	Computer Applications II	1
Cisco Security	1	Digital Media I	1
Computer Applications I	1	Drafting I	1
Computer Engineering Tech I	1	Fundamentals of Technology	1
Honors Computer Engineering Tech II*	1	Scientific and Technical Visualization I	1
Computer Programming I VB.NET	1	Small Business Entrepreneurship	1
Honors Computer Programming II* - Java	1		
Honors Computer Programming II* C++	1		
Honors Computer Programming II* VB.NET	1		
Database Programming I - Oracle	1		
Honors Database Programming II - Oracle*	1		
Digital Communication Systems	1		
Honors e-Commerce I	1		
Honors e-Commerce II*	1		
Networking I	1		
Honors Network Admin II* (Microsoft)	2		
Honors Network Admin II* (Red Hat)	2		
Honors Networking II* - Cisco	1		
Honors Networking III - Cisco	1		
SAS Programming I	1		
SAS Programming II*	1		
Business & Information Technology Advanced Studies	1		

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## MANUFACTURING

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### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Metals Technology I  
Metals Technology II\*

### Courses in the Manufacturing Career Cluster

Foundational Courses	Credit	Enhancement Courses	Credit
Drafting I	1	Business Management & Applications	1
Electronics I	1	Computer Applications I	1
Metals Manufacturing Technology I	2	Digital Communication Systems	1
Metals Manufacturing Technology II*	2	Honors e-Commerce I	1
		Fundamentals of Technology	1
		Marketing	1
		Small Business Entrepreneurship	1
		Honors Strategic Marketing	1

## MARKETING

To meet the requirements for CTP a student must complete the high school graduation requirements for UNC General Administration admissions and/or Community College and select four CTE credits from within a Career Cluster related to their post-secondary goals. At least three of the credits must come from foundational courses. At least one of the foundational courses must be at the completer level, identified by an asterisk. The fourth credit can be either a foundational or enhancement course.

### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Marketing  
Marketing Management\*  
Small Business Entrepreneurship\*  
Business Law

### Courses in the Marketing Career Cluster

Foundational Courses	Credit	Enhancement Courses	Credit
Marketing	1	Business Law	1
Marketing Management*	1	Computer Applications I	1
Small Business Entrepreneurship*	1	Computerized Accounting I	1
Honors Strategic Marketing	1	Digital Communication Systems	1
Marketing Advanced Studies	1	Digital Media I	1
		Honors e-Commerce I	1

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## SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

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### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Fundamentals of Technology  
Drafting I  
Honors Drafting II – Engineering\*  
Honors Drafting III-Engineering\*

#### Sequence II

Scientific Visualization I  
Scientific Visualization II\*  
Game Development I  
Game Development II\*

#### Sequence III

Fundamentals of Technology  
Electronics I  
Honors Electronics II\*

### Courses in the Science, Technology, Engineering and Mathematics Career Cluster

Foundational Courses	Credit	Enhancement Courses	Credit
Communications Systems*	1	Computer Applications I	1
Computer Engineering Tech I	1	Digital Communication Systems	1
Drafting I	1	Digital Media I	1
Honors Drafting II-Engineering*	1		
Honors Drafting III-Engineering	1		
Electronics I	1		
Honors Electronics II*	2		
Introduction to Engineering and Design I	1		
Introduction to Engineering and Design II*	1		
Fundamentals of Technology	1		
Game Development I	1		
Game Development II*	1		
Networking I	1		
Scientific Visualization I	1		
Honors Scientific Visualization II *	1		
Scientific Visualization Adv. Studies	1		
Networking Engineering Technology II			

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## TRANSPORTATION, DISTRIBUTION AND LOGISTICS

To meet the requirements for CTP a student must complete the high school graduation requirements for UNC General Administration admissions and/or Community College and select four CTE credits from within a Career Cluster related to their post-secondary goals. At least three of the credits must come from foundational courses. At least one of the foundational courses must be at the completer level, identified by an asterisk. The fourth credit can be either a foundational or enhancement course.

### Sample College Tech Prep Career Cluster Course Sequences

#### Sequence I

Automotive Technology I  
Automotive Technology II\*  
Automotive Technology III

#### Sequence II

Fundamentals of Technology  
Collision Repair Technology I  
Collision Repair Technology II\*

#### Sequence III

Diesel Technology I  
Diesel Technology II

### Courses in the Transportation, Distribution and Logistics Career Cluster

Foundational Courses	Credit	Enhancement Courses	Credit
Auto Service Tech I	1	Business Law	1
Auto Service Tech II*	2	Business Management & App.	1
Auto Service Tech III	2	Computer Applications I	1
Collision Repair Technology I	1	Computerized Accounting I	1
Collision Repair Technology II*	2	Digital Communication Systems	1
Collision Repair Advanced Studies	1	Fundamentals of Technology	1
Diesel Technology I	2	Marketing	1
Diesel Technology II*	2	Small Business Entrepreneurship	1

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