

# 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 <b>6145 Career Management</b>	
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	

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.



\* Completer course