South Carolina Career and Technical Education

Career Clusters and Programs

[The Modernized National Career Cluster® Framework Guidebook](https://careertech.org/wp-content/uploads/2024/11/Guidebook_-National-Career-Clusters-Framework-1.pdf)

The modernized **National Career Cluster Framework** now serves as the foundation for our updated Career and Technical Education (CTE) cluster system. The accompanying table outlines the transition by showing the School Code Exchange of Data (SCED) category from Satchel, the original career cluster, the newly assigned cluster, and the corresponding CIP-coded programs.

| **SCED** | **Original Cluster** | **New Cluster** | **CIP Coded Programs** |
| --- | --- | --- | --- |
| **Cross-Cutting Cluster Digital Technology:** *Modernizing Industries and Connecting Communities* | | | |
| 10 Information Technology | Information Technology | Digital Technology | Computer & Info Systems Security/Info Assurance (111003) |
| Computer Science (PLTW) (110701) |
| Game and Interactive Media Design (500411) |
| Informatics (110104) |
| Information Support and Services (151202) |
| Networking Systems (110901) |
| Programming and Software Development (110201) |
| Web and Digital Communications (110801) |
| **Cross-Cutting Cluster Management & Entrepreneurship:** *Driving Business Success Across All Industries* | | | |
| 12 Business Management and Administration | Business Management & Administration | Management & Entrepreneurship | Administrative Services (520401) |
| Business Information Management (520208) \***NEW CIP Code**\* |
| General Management (520201) |
| Human Resources Management (521001) |
| Operations Management (520204) |
| **Cross-Cutting Cluster Marketing & Sales:** *Improving Communication and Connections* | | | |
| 12 Business Management and Administration | Marketing | Marketing & Sales | Marketing Analytics (521402) |
| Marketing Communications (090903) |
| Marketing Management (521401) |
| Merchandising (521802) |
| Real Estate (521501) |
| **Advanced Manufacturing:** *Engineering and Producing Tomorrow’s Solutions* | | | |
| 13 Manufacturing | Manufacturing | Advanced Manufacturing | Electronics Technology (470101) |
| Integrated Production Technology (150613) |
| Machine Technology (480503) |
| Mechatronics Integrated Technologies (150404) |
| Metal Fabrication (480501) |
| Welding Technology (480508) |
| 21 Engineering and Technology | Science, Technology, Engineering, and Mathematics | Advanced Manufacturing | Aerospace Engineering Technology (150801) |
| Core Engineering (143501) |
| Pre-Engineering (Project Lead the Way) (140101) |
| Siemens Engineering (144201) |
| **Agriculture:** *Cultivating Sustainability and Nourishing the World* | | | |
| 18 Agriculture, Food, and Natural Resources | Agriculture, Food & Natural Resources | Agriculture | Agricultural Mechanics and Technology (010205) |
| Biosystems Engineering Technology (140301) |
| Horticulture (010601) |
| Plant and Animal Systems (011101) |
| **Arts, Entertainment, & Design:** *Inspiring Creativity, Innovation, and Artistry* | | | |
| 11 Communication and Audio/ Visual Technology | Arts, A/V Technology & Communication | Arts, Entertainment, & Design | Architecture/Mechanical Design (151301) |
| Digital Art and Design (500402) |
| Graphic Communications (100301) |
| Media Technology (100299) |
| Interior Design (500408) |
| 19 Human Services | Arts, A/V Technology & Communication | Arts, Entertainment, & Design | Fashion Design and Apparel Construction (500407) |
| **Construction:** *Building Futures and Pioneering Sustainable Horizons* | | | |
| 17 Architecture & Construction | Architecture & Construction | Construction | Building Construction Technology (460000) |
| Cabinetmaking (480703) |
| Carpentry (460201) |
| Electrical Line Worker Technology (460303) |
| Electricity (460301) |
| HVAC/R Technology (470201) |
| Masonry (460101) |
| Plumbing (460503) |
| **Education:** *Transforming Lives and Enriching Futures Through Lifelong Learning* | | | |
| 19 Human Services | Education & Training | Education | Early Childhood Education (131210) |
| Introduction to Teaching (130101) |
| 19 Human Services | Human Services | Education | Family and Consumer Sciences (190101) |
| Family Systems & Mental Health (190704) |
| **Energy & Natural Resources:** *Powering Progress and Preserving Our Planet* | | | |
| 18 Agriculture, Food, and Natural Resources | Agriculture, Food &  Natural Resources | Energy & Natural Resources | Environmental & Natural Resources Management (030101) |
| 21 Engineering and Technology | Science, Technology, Engineering, and Manufacturing | Energy & Natural Resources | Clean Energy (149999) |
| Innovations in Science and Technology (410000) |
| **Financial Services:** *Empowering Financial Resilience* | | | |
| 12 Business Management and Administration | Finance | Financial Services | Academy of Finance (520801) |
| Accounting (520301) |
| Banking Services (520803) |
| Business Finance (520804) |
| Insurance (521701) |
| Securities and Investments (520807) |
| **Healthcare & Human Services:** *Supporting the Whole Health of Individuals, Families, and Communities* | | | |
| 14 Health Care Services | Health Science | Healthcare & Human Services | Biomedical Sciences (PLTW) (260102) |
| EMS (510999) |
| Healthcare Science (510000) |
| Practical Nursing (513999) |
| Public Health (512208) |
| Sports Medicine (310505) |
| 21 Engineering and Technology | Science, Technology, Engineering, and Manufacturing | Healthcare & Human Services | Food Science (190501) |
| 19 Human Services | Human Services | Healthcare & Human Services | Barber/Master Hair Care (120402) |
| Cosmetology (120401) |
| Esthetics (120409) |
| Nail Technology (120410) |
| Natural Hair Braiding (120407) |
| **Hospitality, Events, & Tourism:** *Unlocking Adventures and Elevating Experiences* | | | |
| 16 Hospitality and Tourism | Hospitality &Tourism | Hospitality, Events, & Tourism | Baking and Pastry (120501) |
| Culinary Arts Management (520905) |
| Hospitality and Tourism Management (520904) |
| **Public Service & Safety:** *Shaping, Serving, and Protecting Our Communities* | | | |
| 15 Public, Protective, and Government Service | Government & Public Administration | Public Service & Safety | Governance (440501) |
| Public Management and Administration (440401) |
| 15 Public, Protective, and Government Service | Law, Public Safety, Corrections & Security | Public Service & Safety | Emergency and Fire Management Services (430203) |
| Law Enforcement Services (430107) |
| Paralegal Systems Technology (220301) |
| 09 Military Science | Government & Public Administration | Public Service & Safety | Air Force JROTC (280101) \***NEW**\* |
| Army JROTC (280301) \***NEW**\* |
| Coast Guard JROTC (280505) \***NEW**\* |
| Marines JROTC (280401) \***NEW**\* |
| Navy JROTC (280499) \***NEW**\* |
| Space Force JROTC (280502) \***NEW**\* |
| **Supply Chain & Transportation:** *Driving Efficiency and Streamlining Tomorrow’s Transport* | | | |
| 20 Transportation, Distribution, and Logistics | Transportation, Distribution, and Logistics | Supply Chain & Transportation | Automotive Collision Repair Technology (470603) |
| Automotive and Hybrid/BEV Technology (470604) |
| Commercial Vehicle Operation (490205) |
| Diesel Engine Technology (470605) |
| Drone Technology (490109) |
| Global Logistics & Supply Chain Management (520203) |
| Power Equipment Technology (470606) |