There are course sequences within programs of study where knowledge and skills gaps were identified by industry advisory committees and CTE program specialists. These gap areas are identified with placeholder names throughout the course sequences and have TBD (to be developed) as a placeholder for their service ID. These courses will either need to be solicited through the innovative course application process and/or recommended to the State Board of Education as courses that need to be created.

There are existing CTE courses not included in the statewide programs of study. The table below lists the potential new courses and courses not included in a statewide program of study. Local education agencies with labor market data to support regional programs of study may submit an application for additional course sequences. All CTE courses, including those not included in a sequence, will remain available for districts to offer and will generate state weighted funding.

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| **New 13 Career Clusters** | **Potential new Courses Identified** | **Courses not placed in a sequence** |
| Agriculture, Food, & Natural Resources (AG) | * Geographic Information System * Practicum in Entrepreneurship | * Mathematical Applications in Agriculture |
| Arts, Audio/Visual Technology & Communications (ARTS) | * Practicum of Digital Audio Technology * Practicum in Entrepreneurship | * Printing and Imaging Technology I * Printing and Imaging Technology Lab I * Printing and Imaging Technology II * Printing and Imaging Technology Lab II * Practicum in Printing and Imaging Tech * Extended Practicum in Printing and Imaging * Practicum in Fashion Design * Extended Practicum in Fashion Design |
| Architecture & Construction (CONS) | * Sheet Metal * Practicum in Entrepreneurship |  |
| Business, Finance, & Marketing (BUS) | * Entrepreneurship II * Practicum in Entrepreneurship * Marketing | * Touch System Data Entry * Business English |
| Education & Training (EDU) | * Communication and Technology in Education * Child Development Associate Prep Course * Special Populations |  |
| Energy (ENR) | * Principles of Energy * Practicum in Energy * Introduction to Instrumentation and Electrical * Introduction to Renewable Energy |  |
| Health Science (HS) | * Kinesiology I * Kinesiology II * Principles of Exercise & Wellness * Principles of Health Informatics * Medical Intervention Evaluation and Research * Healthcare Information Systems and Management * Principles of Diagnostic Healthcare * Introduction to Imaging Technology * Imaging Technology I * Imaging Technology II * Principles of Therapeutic HealthCare * Introduction to Pharmacy Science * Introduction to Dental Science * Pharmacy I * Dental Anatomy and Physiology * Pharmacy II * Medical Assistant * Dental Equipment and Procedures * Practicum in Nursing * Principles of Nursing * Science of Nursing * Leadership and Management in Nursing * Clinical Ethics in Nursing * Principles of Allied Health * Allied Health Therapeutic Service * Respiratory Therapy I * Respiratory Therapy II * Occupational Therapy I * Occupational Therapy II * Physical Therapy I * Physical Therapy II * Radiation Therapy I * Radiation Therapy II |  |
| Hospitality & Tourism (HOSP) | * Restaurant Management * Practicum in Entrepreneurship * Introduction to Event and Meeting Planning * Practicum in Event and Meeting Planning * Tourism Marketing Concepts and Applications |  |
| Human Services (HUSV) | * Principles of Community Service * Social and Community Services * Practicum in Entrepreneurship * Applied Nutrition and Dietetics | * Barbering I * Barbering II * Principles of Cosmetology Design and Color * Introduction to Cosmetology * Cosmetology I * Cosmetology II |
| Information Technology (IT) | * Cybersecurity * Cybersecurity Capstone * IT Troubleshooting * Principles of Cloud Computing * Cloud Networking * Practicum in Entrepreneurship * Web Development I |  |
| Law and Public Service (LAW) | * Advanced Court Systems |  |
| Manufacturing (MANU) | * Practicum in Entrepreneurship | * Engineering Mathematics |
| Science, Technology, Engineering and Math |  | * Principles of Technology |
| Transportation, Distribution, & Logistics (TRANS) | * Aviation Maintenance * Concepts of Distribution and Logistics Technology * Logistics Engineering * Introduction to Flight * Aviation I * Aviation II * Practicum in Aviation * Unmanned Aerial Vehicles I * Unmanned Aerial Vehicles II * Practicum in Entrepreneurship | * Introduction to Flight * Introduction to Unmanned Aerial Vehicles * Aviation I * Unmanned Aerial Vehicles I * Aviation II * Unmanned Aerial Vehicles II * Aerospace Engineering * Practicum in Aviation * Principles of Maritime Science * Maritime Science I   Maritime Science II |

**Example Regional Programs of Study:**

There are five example sequences of courses which met one or more of the statewide labor market criteria. However, statewide labor market data does not support offering these sequences at every high school. It is recommended that the following sequences be made available for application.

A regional program of study application process will be made available once the statewide programs of study list is finalized. The application will require the submission of labor market data from a local chamber of commerce or a local workforce development board that validates the occupations and course sequence of the proposed program of study being aligned with regional needs for high-wage, in-demand careers.

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| **Career Clusters** | **Regional Recommended Courses** |
| Arts, Audio/Visual Technology & Communications (ARTS) | **Fashion Design**   * Fashion Design I * Fashion Design I Lab * Fashion Design II * Fashion Design II Lab * Practicum in Fashion Design * Extended Practicum in Fashion Design |
| Human Services (HUSV) | **Cosmetology**   * Principles of Cosmetology Design and Color * Introduction to Cosmetology * Cosmetology I * Cosmetology II   **Barbering**   * Barbering I * Barbering II |
| Transportation, Distribution, & Logistics (TRANS) | **Flight**   * Introduction to Flight * Introduction to Unmanned Aerial Vehicles * Aviation I * Unmanned Aerial Vehicles I * Aviation II * Unmanned Aerial Vehicles II * Aerospace Engineering * Practicum in Aviation   **Maritime**   * Principles of Maritime Science * Maritime Science I * Maritime Science II |