

EMIS Change 23-19

This change makes several updates to the CTE Matrix. Included in this document are the changes to subject codes: five new codes, six deleted codes, and one modified name.

SECTION 4.7: SUBJECT CODES

CAREER-TECHNICAL EDUCATION SECTION

Workforce Development Section

Table 1. Career Field 16: Transportation Systems Codes (17xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for proper cert)
177003	Automotive Braking, Suspension, and Steering Systems Students will perform inspections, troubleshoot malfunctions and service automotive undercarriage systems. Students will identify poor performing hydraulic brake systems and replace malfunctioning components. Students will install coil and leaf springs, shock absorbers and struts, and replace wheel bearings. Students will inspect and replace automotive steering components and perform wheel alignments. Additionally, students will disable and enable supplemental restraint systems (SRS) and replace antilock brake systems components.	CTA	—
177005	Truck Braking, Suspension, and Steering Systems Students perform inspections, troubleshoot malfunctions, and service truck undercarriage systems. Students identify poor performing air brake systems and replace malfunctioning components. Students will install leaf springs, shock absorbers and air suspension components. Students inspect and replace truck steering components and replace wheel bearings. Additionally, students will perform wheel alignment and tire inspections, diagnostics, and repair. Identifying workplace risk factors associated with repetitive motion and lifting, operating, and moving of heavy objects are emphasized.	CTA	—
177024	<u>Unmanned Aircraft Systems Students will learn the essentials of operating an unmanned aircraft in a variety of environments. Students will learn principles of regulations, operations, air space, and navigation. Additionally, students will acquire and use geospatial information for various applications.</u>	CTA	=
177030	<u>Automotive Braking Systems Students will perform inspections, troubleshoot malfunctions, and service automotive brake systems. Students will identify poor performing hydraulic brake systems and replace malfunctioning components. Additionally, students will disable and enable supplemental restraint systems (SRS) and replace antilock brake systems components.</u>	CTA	=

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for proper cert)
<u>177031</u>	<u>Automotive Steering and Suspension Systems Students will perform inspections, troubleshoot malfunctions, and service automotive undercarriage systems. Students will install coil and leaf springs, install shock absorbers and struts, and replace wheel bearings. Students will inspect and replace automotive steering components and perform wheel alignments.</u>	<u>CTA</u>	<u>=</u>
<u>177032</u>	<u>Truck Braking Systems Students will perform inspections, troubleshoot malfunctions, and service truck brake systems. Students will identify poor performing air brake systems and replace malfunctioning components. Identifying workplace risk factors associated with repetitive motion and lifting, operating, and moving of heavy objects are emphasized.</u>	<u>CTA</u>	<u>=</u>
<u>177033</u>	<u>Truck Steering and Suspension Systems Students will perform inspections, troubleshoot malfunctions, and service truck undercarriage systems. Students will install leaf springs, shock absorbers, and air suspension components. Students will inspect and replace truck steering components and replace wheel bearings. Additionally, students will perform wheel alignment and tire inspections, diagnostics, and repair. Identifying workplace risk factors associated with repetitive motion and lifting, operating, and moving of heavy objects are emphasized.</u>	<u>CTA</u>	<u>=</u>

Table 26. Career Field 09: Health Science Codes (07xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for proper cert)
072160	Data and Use This foundational course focuses on the use of data and databases within the health field. Students learn what are data, how it is used and sources of data in the medical and health informatics field. They learn how to make sense of data and how data can be applied to our lives. Students will have the opportunity to interact with professionals in the health informatics field.	CTA	—

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for proper cert)
072165	Transforming Data into Information Students learn how to use data to address both patient and industry needs in the health care field. Students use software to collect and analyze data, develop a health care registry, create a mobile app mockup and develop forms and systems to solve health care problems. They will learn how technology can be used to create better information to inform decision making, create information from data, improve public and individual health and to protect patient privacy.	CTA	—
072170	Information into Knowledge This advanced course allows students to make improvements in the health care field by designing solutions using the information, knowledge and technology tools available to health informatics professionals. Students are engaged in the following activities: building a system of sharing information among health care facilities; using social media tools to reduce diseases in foreign countries; exploring voice recognition software; using a motion based video gaming con sole for rehabilitation; and exploring clinical decision rules for improving patient care.	CTA	—
072175	Problems and Solutions In this advanced course, students study and design solutions to problems facing health care systems. Students learn how can the health care system work more efficiently and economically, how health care issues in rural locations can be addressed and how various community organizations work together to improve the health of the community? Students will have the opportunity to interact with professionals in the health informatics fields.	CTA	—

Table 22. Career Field 04: Construction Technologies Codes (17xxxx)

Subject Code	Description	Suggested Subject Area for Credit	Core Subject Area (for proper cert)
178030	Principles of Woods Construction Students will engage in the introductory skills utilized in working with various wood construction materials. They will learn to use basic measuring tools, hand tools and machines, common to the wood industry, to construct basic projects. Additionally, students will examine various wood construction materials and their properties. Throughout the course, students will learn components of site and personal safety.	CTA	—