

Prior to the Cluster Review



Recommendations Following Cluster Review

**Pathway Recommendations Summary****:**

CIP Code Recommended Change

* New CIP Code: **14.4801** **Energy Systems, Engineering, General.**

No Recommend Changes [CTE Course Competencies and Indicators (ksde.org)](https://www.ksde.org/Agency/Division-of-Learning-Services/Career-Standards-and-Assessment-Services/CSAS-Home/Career-Technical-Education-CTE/CTE-Course-Competencies-and-Indicators)

* Courses not reviewed by this committee.
	+ 41320 Principles of Applied Engineering
	+ 03207 AP Environment Science
	+ 13302 Mechanical Power Transmission Systems
	+ 03006 Meteorology
	+ 41355 Materials Science in Engineering
	+ 39302 Hydraulics and Pneumatics
	+ 17056 HVAC Technology

Courses Reviewed with Recommended Changes

* Courses with updated competencies and benchmarks
	+ 41100 Introduction to Energy
	+ 41207 Introduction to Environmental Science
	+ 41105 Energy Industry Fundamentals
	+ 41170 Fundamentals of Electricity and Electronics
	+ 41150 Energy, Power, and Society
	+ 41160 Wind Energy Operations
	+ 41250 Research and Development for Energy
	+ 41260 Research and Development for Energy – Comprehensive
	+ 41270 Advanced Electricity and Electronics.

New Course Recommendations

* Courses Recommended to be Added.
	+ 21201 Foundations of Electronics
		- Can offer either 41170 Fundamentals of Electricity and Electronics **OR** 21201 Foundations of Electronics but not both.