

Prior to the Cluster Review

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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.