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**Manufacturing Standards**

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**The Background:**

*Rules, Regulations, and Minimum Standards of the State Board of Education 0520-01-03-.05(1)* calls for the State Board of Education to adopt curriculum standards for each subject area, grades K-12. The approved standards are to be the basis for planning instructional programs in each local school system.

The Department of Education's Division of Career and Technical Education (CTE) is submitting revisions for the Manufacturing career cluster to update curriculum standards. These new standards reflect higher expectations for students, as aligned to the Common Core State Standards for English Language Arts & Literacy in Technical Subjects, as well as reflect changes in the advanced manufacturing industry leading to new and evolving jobs in Tennessee.

Mechatronics is an integrated technology program to prepare technicians in the growing field of manufacturing design and operations. These courses reflect alignment to postsecondary programs and input from business and industry, and prepare students for a Level 1 Siemens Certified Mechatronic Systems Assistant certification.

Courses included in this item:

Introduction to Electromechanical	Revised course
Mechatronics I	New course
Mechatronics II	New course

**The Recommendation:**

The Department of Education recommends acceptance of this item on first reading. The SBE staff concurs with this recommendation.