

To: Members of the State Board of Education

From: Stefany Deckard, State CTE Director

Date: June 13, 2018

Re: Revising Credit Opportunities for Engineering Design and Development

Purpose:

The Department formally requests that Engineering Design and Development (EDD) PLTW #4828 as well as EDD non-PLTW #5698 be offered for 1 to 3 credits per semester for a maximum of 6 credits per year. The courses are currently offered for 1 credit per semester for a maximum of 2 credits per year. The Department contends that the academic rigor of these courses coupled with the time required for instructors to ensure students have adequate depth of knowledge in this course warrants additional time and credit opportunities. The increase in credits for this course is consistent with all other capstone courses offered.

Rationale:

Engineering Design and Development is an engineering research course in which students work in teams to research, design, test, and construct a solution to an open-ended engineering problem. It is considered a Capstone Course for the Engineering College and Career Pathway. The EDD course allows students to apply all the skills and knowledge learned in previous pre-engineering courses. Capstone courses in other Pathways are offered for the aforementioned 1-3 credits per semester for a maximum of 6 possible credits per year. The proposed change would bring these courses into alignment with our other Capstone offerings and corrects an oversight originally included in within the 2013-2014 course description document.