

OFFICE OF CHIEF OF ACCOUNTABILITY
Summary of State Board of Education Agenda Items
Consent Agenda
July 13, 2017

OFFICE OF ACCREDITATION

D. Award academic credit for Project Lead the Way (PLTW) courses

Background Information: Project Lead the Way is a national science and STEM (Science, Technology, Engineering and Mathematics) program that features collaboration between industry and education. Toyota in Northeast Mississippi and Chevron on the Mississippi Gulf Coast have specifically supported and collaborated with school districts in their regions using the PLTW curriculum.

The Mississippi Department of Education (MDE) Office of Secondary Education created a task force of experienced PLTW classroom teachers to explore the correlation between the new Mississippi College and Career Readiness (MSCCR) Science Standards, the Mississippi technology or computer science requirements, and the courses offered by PLTW. The findings of the task force, along with research of other state curricula, provide the foundation for the recommendation to offer academic credit for the specified PLTW courses.

This engaging curriculum is a project-based learning program that has been used effectively to interest students in STEM coursework across the nation in over 9,000 schools and over 10,500 programs serving over 2.4 million students.

Recommendation: Approval

Back-up material attached

**Project Lead the Way
Academic Credit for Science and Technology Requirements
Justification for Additions for School Year 2017-2018**

PLTW Course	Credit/Area	Academic Requirement Alignment
Introduction to Engineering Design	1 Technology	Science, Technology, Engineering, and Math course; Meets Technology requirement for graduation
Principles of Engineering	1 Science	Science credit above Biology I; curriculum contains elements of physics
Engineering Design and Development	1 Science	Science credit above Biology I; curriculum contains elements of physics
Principles of Biomedical Science	None	Curriculum covers much of the same curriculum as the State tested Biology 1. No science credit recommended.
Human Body Systems	1 Science	Science credit above Biology I; curriculum contains elements of anatomy and physiology
Medical Interventions	1 Science	Science credit above Biology I; curriculum contains elements of genetics
Computer Science Essentials	1 Technology	Credit for technology, STEM, or computer science
Computer Science Principles	1 Computer Science	Credit for advanced elective, AP, or computer science