

## MEMORANDUM

**To:** Indiana State Board of Education  
**From:** J. Matthew Walsh, Curriculum Specialist  
Dr. Ken Folks, Chief Academic Officer  
**Date:** January 9, 2019  
**Subject:** Course Titles and Descriptions for 2019-2020 (Addendum)

The Indiana Department of Education (IDOE) is seeking approval of this addendum to the 2019-2020 Course Titles and Descriptions document.

### **2019-2020 recommended updates include:**

- CTE Agriculture – The following course descriptions were updated to match the descriptions from FFA:
  - Agribusiness Management (5002)
  - Agriculture Power, Structure, and Technology (5088)
  - Advanced Life Science: Animals (5070)
  - Advanced Life Science: Foods (5072)
  - Advanced Life Science: Plants and Soils (5074)
  - Animal Science (5008)
  - Food Science (5102)
  - Horticultural Science (5132)
  - Introduction to Agriculture, Food and Natural Resources (5056)
  - Landscape Management I (5136)
  - Landscape Management II (5137)
  - Natural Resources (5180)
  - Plant and Soil Science (5170)
- The notation that the following courses count as quantitative reasoning courses was added to reflect the information listed on the website.
  - Integrated Chemistry-Physics (L) (3108)
  - Computer Science III: Databases (5250)
  - Construction Trades II (5578)
- Project Lead the Way Cybersecurity (5261) course description was added as follows:

*PLTW Cybersecurity* is a full-year course. The design of the course exposes high school students to the ever-growing and far-reaching field of cybersecurity. Students accomplish this through problem-based learning, where students role-play as cybersecurity experts and train as cybersecurity experts do. *PLTW Cybersecurity*

gives students a broad exposure to the many aspects of digital and information security, while encouraging socially responsible choices and ethical behavior. It inspires algorithmic thinking, computational thinking, and especially, “outside-the-box” thinking. Students explore the many educational and career paths available to cybersecurity experts, as well as other careers that comprise the field of information security. The course contains the following units of study: Personal Security, System Security, Network Security, and Applied Cybersecurity.

- Recommended Grade Level: 10, 11, 12
- Required Prerequisites: none
- Recommended Prerequisites: Computer Science Essentials, Computer Science Principles, Computer Science A
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
- Counts as a Directed Elective or Elective for all diplomas
- Qualifies as a quantitative reasoning course