TO: State Board of Education

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SUBJECT: Changes to Approved Course Titles and Descriptions for 2016-2017

To assure that Indiana provides students with the most current offerings to prepare for college and careers, the Department of Education annually updates and distributes the course titles and descriptions for the following school year. Following are proposed changes to Indiana's state approved course titles for 2016-2017, based on demand and feedback from Indiana's secondary education community, post-secondary/higher education, and business/industry partners along with recommendations from the Career and Technical Education field and the Statewide Advisory Committee for Career and Technical Education.

Proposed changes to Indiana's state approved courses
We propose the following changes in state approved course titles in order to expand the offerings available to schools, increase flexibility, facilitate alignment and sequencing of general/liberal arts courses and Career and Technical Education (CTE) courses, increase accuracy of enrollment reports, and continue development and implementation of Indiana's College and Career Pathways.

Advanced Placement (AP) and International Baccalaureate (IB) Course Offerings
Per the flexibility granted in 2014 by the SBOE in order for the state to be more responsive as these programs evolve, adjustments to the Advanced Placement (AP) and the International Baccalaureate (IB) courses have been made accordingly to align our course offerings with the changes and updates made by the governing organizations of these curricular programs. At this time, one course has been added to the state approved courses.

- *AP Computer Science Principles* offers a multidisciplinary approach to teaching the underlying principles of computation, introducing the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. Students use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum designed to broaden participation in computer science.

Administrative and Office Management

- *Administrative and Office Management* will replace the title *Advanced Business Management* to better reflect the content standards and skills that are achieved by this course and better align with industry needs and secondary/postsecondary pathways.

Aviation Maintenance I & II

- *Aviation Maintenance* will become *Aviation Maintenance I*. Currently there is only one Aviation Maintenance Course. The complexity of this industry requires the addition of more content and instruction.
- A newly developed *Aviation Maintenance II* will extend the content and skills gained in Aviation Maintenance I. The title change reflects this additional course.

Banking and Investment Capstone

- *Banking and Investment Capstone* will replace the title *Banking and Investment Careers* to better communicate the position of this course as the capstone course for the secondary course sequence in this pathway.

Biochemistry of Foods

- *Biochemistry of Foods* will replace *Chemistry of Foods* to better reflect the updated and more rigorous course standards and content of this course and to better align the course with the corresponding secondary/postsecondary course sequences.

College and Career Bridge: Ready

- *CCR Bridge: Math Ready* will include and reinforce the Algebra 1, Geometry, Algebra 2 and Statistics skills necessary to be ready for entry-level college math. This course emphasizes understanding of math concepts rather than just memorizing procedures. *CCR Bridge: Math Ready* teaches the context behind the procedure: why to use a certain formula or method to solve a problem, for example. Students will build higher-order thinking skills in order to apply math skills, functions and concepts in different situations.
- *CCR Bridge: Literacy Ready* is an innovative, dynamic course built to help students master the literacy skills needed for three core subject areas —English, social science and science. *Literacy Ready* consists of six units: two in history, two in English and two in science. Content of each of the disciplines is at the forefront of the curriculum while disciplinary literacy skills are emphasized through reading and writing assignments based on the content. The focus is on truly understanding how to read and interpret texts in the discipline on a college level.

Culinary Arts and Hospitality

- *Introduction to Culinary Arts and Hospitality* is the first course in the sequence.
- *Culinary Arts and Hospitality I* will *replace Culinary Arts and Hospitality Management* to communicate the alignment of this course in the course sequence for these pathways.
- *Culinary Arts and Hospitality II: Culinary Arts* will replace *Advanced Culinary Arts* to clarify the proper sequencing of this specialty in the Culinary/Hospitality pathway.
- *Culinary Arts and Hospitality II: Hospitality Management* will replace *Advanced Hospitality Management* to clarify the proper sequencing of this specialty in the Culinary/Hospitality pathway.

Entrepreneurship and New Ventures Capstone

- *Entrepreneurship and New Ventures Capstone* will replace the title *Entrepreneurship and New Ventures* to better communicate the position of this course as the capstone course for the secondary course sequence in this pathway.

Industrial Automation and Robotics I & II

- *Industrial Automation and Robotics I & II* will replace *Automation and Robotics I & II*. This change is needed to communicate the industrial nature of this career preparation course, which is utilizing automation in an industrial or manufacturing setting, and distinguish it from the non-CTE robotics/robot-building activities that schools provide through robot clubs and after school activities. This change makes it clear that the CTE course is for career preparation for students in the industrial automation and robotics pathway as applied in industrial settings.

Industrial Technical Maintenance I & II

- *Industrial Technical Maintenance I* will replace *Industrial Repair and Maintenance* to better reflect the scope of knowledge and skills needed in this pathway and included in this course.
- *Industrial Technical Maintenance II*, the second level of the course, is reflective of the expanded learning needed due to advances in the industry and increasing complexity of the content, which warrant additional instruction.

Networking I & II

- *Networking I* will replace the title *Network Fundamentals* to align the format of this course sequence with the format of other Level I and Level II courses.
- *Networking II: Infrastructure* will replace *Infrastructure of the Internet* to better communicate the appropriate sequencing and the more advanced level of the course
- Likewise *Networking II: Servers* will replace *Servers and Security* to clarify sequencing of the Networking courses.

Work Based Learning Capstone courses
The work *Capstone* will be added to the existing *Work Based Learning* course titles to communicate the advanced, "capstone" nature of these WBL courses and reinforce the advanced nature of these Work Based Learning courses.

- *Work Based Learning Capstone, Multiple Pathways*
- *Work Based Learning Capstone, Advanced Manufacturing and Engineering*
- *Work Based Learning Capstone, Business and Marketing*
- *Work Based Learning Capstone, Family and Consumer Sciences*
- *Work Based Learning Capstone, Health Sciences*
- *Work Based Learning Capstone, Trade and Industry*