

**MEMORANDUM**

**To:** Indiana State Board of Education  
**From:** J. Matthew Walsh, Curriculum Specialist  
**Date:** October 30, 2019  
**Subject:** Course Titles and Descriptions for 2020-2021

The Indiana Department of Education (IDOE) is seeking approval for the 2020-2021 Course Titles and Descriptions document. Recommended updates for 2020-2021 are outlined below.

**Career and Technical Education (CTE):**

- All CTE courses are categorized according to the twelve Indiana Career Clusters and three CTE groups (CTE, Family and Consumer Sciences, and CTE/Work Based Learning).
- Two new course categories a) Advanced CTE, College Credit and b) Special Topics were added to each Indiana Career Cluster. These course categories are used for Joint Programs of CTE. These courses replace Advanced Business, College Credit (4564) and Advanced Career and Technical Education, College Credit (5238). Additionally, these new courses will reduce the use of the CTE: Pilot course (5239). The table below indicates the changes.

<b>New Courses</b>	<b>Deactivated Courses</b>
6146 Advanced Career & Technical Education, College Credit: Advanced Manufacturing	5238 Advanced Career and Technical Education, College Credit
4880 Advanced Manufacturing: Special Topics	4564 Advanced Business, College Credit
6130 Advanced Career & Technical Education, College Credit: Agriculture	
6150 Agriculture: Special Topics	
6132 Advanced Career & Technical Education, College Credit: Architecture and Construction	
5654 Architecture and Construction: Special Topics	
6134 Advanced Career & Technical Education, College Credit: Arts, AV Tech, and Communication	
4576 Arts, AV Tech and Communication: Special Topics	
6142 Advanced Career & Technical Education, College Credit: Business, Marketing, and Entrepreneurship	

New Courses	
5968 Business, Marketing, and Entrepreneurship: Special Topics	
6140 Advanced Career & Technical Education, College Credit: Education and Training	
5976 Education and Training: Special Topics	
6120 Advanced Career & Technical Education, College Credit: Hospitality and Human Services	
6152 Hospitality and Human Services: Special Topics	
6138 Advanced Career & Technical Education, College Credit: Health Science	
6022 Advanced Career & Technical Education, College Credit: Information Technology	
4578 Information Technology: Special Topics	
6136 Advanced Career & Technical Education, College Credit: Public Safety	
6154 Public Safety: Special Topics	
4788 Engineering and Technology: Special Topics	
6128 Advanced Career & Technical Education, College Credit: Transportation	
6156 Transportation: Special Topics	
6126 Advanced Career and Technical Education, College Credit: STEM	

- Course 6148 Apprenticeship was added to the Career Cluster: CTE Work-based Learning.
- **Credit** requirements changed for the following courses:

Course	Credits in 19-20	New Credit Requirements
Computers in Design and Production (4800)	2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum	Changed credit requirements: <i>1 to 2 semester course</i>
Introduction to Advanced Manufacturing and Logistics (4796)	2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum	Changed credit requirements: <i>1 to 2 semester course</i>

Introduction to Manufacturing (4784)	2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum	Changed credit requirements: <i>1 to 2 semester course</i>
Introduction to Construction (4792)	2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum	Changed credit requirements: <i>1 to 2 semester course</i>
Introduction to Energy Industry (5614)	2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum	Changed credit requirements: <i>1 to 2 semester course</i>
Design Fundamentals (4834)	2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum	Changed credit requirements: <i>1 to 2 semester course</i>
Introduction to Communications (4790)	2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum	Changed credit requirements: <i>1 to 2 semester course</i>
Introduction to Design Process (4794)	2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum	Changed credit requirements: <i>1 to 2 semester course</i>
Introduction to Transportation (4798)	2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum	Changed credit requirements: <i>1 to 2 semester course</i>
Introduction to Agriculture, Food, and Natural Resources (5056)	2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum	Changed credit requirements: <i>1 to 2 semester course</i>
Preparing for College and Careers (5394)	1 semester course, 1 credit per semester, 1 credit maximum.	Changed credit requirements: <i>1 or 2 semester course, 1 credit per semester, 2 credit maximum; Only 1 credit may count toward CTE Concentrator Status for Perkins IV Pathways</i>

- Changes to **prerequisites** were made to the following courses:

<b>Course</b>	<b>Prerequisites in 19-20</b>	<b>New Prerequisites</b>
Industrial Technical Maintenance I (5686)	Recommended: Introduction to Manufacturing (4784)	Recommended: Introduction to Manufacturing (4784) or Introduction to Advanced

		Manufacturing and Logistics (4796)
Work Based Learning Capstone (5974)	Required: a minimum of 4 credits of introductory and advanced career and technical education courses related to a student's pathway and the work site placement	Required: Complete at least one advanced career and technical course from a program or a program of study. Student's worksite placement must align to student pathway.
Criminal Justice II (5824)	Required: Criminal Justice I	Recommended: Criminal Justice I

- Interdisciplinary Cooperative Education (5902) was renamed to Cooperative Education (6162). Cooperative Education eliminated the required prerequisites.
- The following Project Lead the Way (PLTW) courses will be deactivated for the 2020-2021 school year. There will only be one course code for these courses going forward. Schools approved by PLTW to use its curriculum should use these codes.

Deactivated PLTW Course	Single Course Code
Aerospace Engineering (4816)	Aerospace Engineering (5518)
Civil Engineering and Architecture (4820)	Civil Engineering and Architecture (5650)
Computer Integrated Manufacturing (4810)	Computer Integrated Manufacturing (5534)
Digital Electronics (4826)	Digital Electronics (5538)
Engineering Design and Development (4828)	Engineering Design and Development (5698)
Introduction to Engineering Design (4812)	Introduction to Engineering Design (4802)
Principles of Engineering (4814)	Principles of Engineering (5644)

- The description for Health Science Education II: Special Topics (5286) was amended to include a notation about Joint Programs of study.
- Cybersecurity PLTW (5261) was deactivated.
- The description for Computer Science III: Cybersecurity Capstone (5253) was amended to include a notation about the use of PLTW curriculum.
- The following language was removed from the course: 3D Computer Animation and Visualization (5530): "The nature of this course allows for a second year of instruction provided that content and standards address higher levels of knowledge."

#### English/Language Arts (ELA):

- The Applied English 10 (1004) description was amended to include grade 11.
- The Applied English 12 (1008) description was amended to include language that address 18 to 22 year-old programming.

- English as a New Language (1012) credits were updated to indicate that eight credits may be accrued.

**World Languages:**

- English as a New Language (2188) credits were updated to indicate that eight credits may be accrued.

**Mathematics:**

- A new course 2595 PRIME Math was added. PRIME Math (Postsecondary Ready Investigative Mathematics Experience) is the math transition course developed in partnership with the Commission for Higher Education. While the course name and number has changed, it uses the same basic course description and the same curriculum as 2514 CCR Bridge: Math Ready. In order to be able to offer 2595 PRIME Math, and thereby participate in the vertical articulation agreement with higher education institutions, teachers must receive IDOE training and utilize the prescribed curriculum with fidelity. Eventually, course 2514 will be phased out, as more teachers are credentialed to teach 2595 PRIME Math.

**Multidisciplinary:**

- Course 0509 Jobs for America's Graduates was added.
- Career Information and Exploration (0522) was updated to include an employability component.
- Community Service (0524) was updated to include: "Per the passage of HEA 1629, Community Service is now recommended for Grades 9-12."
- Driver Education (3520) credit was updated to read one credit only.
- College Entrance Preparation (0532) was updated to read one credit per semester.

**Science:**

- Anatomy and Physiology (5276) credits were changed from 1 semester, 1 credit per semester, 2 credits maximum to 1 to 2 semester course, 1 credit per semester, 2 credits maximum to match the CTE description of Anatomy and Physiology (5276).

**Social Studies:**

- United States Government (1540) description was updated to include language for the naturalization test per SEA 132.

**International Baccalaureate:**

- Two new courses were added to the International Baccalaureate programme of study: 1614 International Baccalaureate B Sports, Exercise, and Health Sciences Higher Level and 4094 International Baccalaureate World Languages *ab initio* Higher Level. Please contact your International Baccalaureate programme advisor for further details.

**Cambridge International:**

- Two new courses were added to the Cambridge International program: 8234 Cambridge International A Level Digital Media and Design and 8236 Cambridge International AS Level Digital Media and Design.
- Course descriptions changed for the following courses: CI A Level Computer Science (8116), CI AS Level Computer Science (8118), CI A Level Media Studies (8160), and CI AS Level Media Studies (8162). Please contact your Cambridge International program advisor for more details.

APPROVED