

MEMORANDUM

To: Indiana State Board of Education
From: Office of Academics
Date: November 10, 2020
Subject: Quantitative Reasoning Courses List Revised

The Indiana Department of Education (IDOE) is seeking to inform the State Board of Education of the following changes for the list of courses identified as quantitative reasoning courses. The updates shared in this memo resulted from a recent cross check of courses identified as quantitative reasoning courses prior to the 2020-2021 school year.

Recommended updates include:

Recommended Removals from Quantitative Reasoning List of Courses		
Course Name	Course Number	Reason for Removal
PLTW Cybersecurity	5261	Course no longer offered beginning in the 2020-2021 SY
PLTW Aerospace Engineering	4816	Course no longer offered beginning in the 2020-2021 SY
PLTW Civil Engineering and Architecture	4820	Course no longer offered beginning in the 2020-2021 SY
PLTW Computer Integrated Manufacturing	4810	Course no longer offered beginning in the 2020-2021 SY
PLTW Digital Electronics	4826	Course no longer offered beginning in the 2020-2021 SY
PLTW Engineering Design and Development	4828	Course no longer offered beginning in the 2020-2021 SY
PLTW Principles of Engineering	4814	Course no longer offered beginning in the 2020-2021 SY
Computer Science II: Informatics	5251	Course name changed to Computer Science III: Informatics for 2020-2021
International Baccalaureate:	1584	Course does not meet criteria for quantitative

Geography Higher Level		reasoning.
Economics	1514	Course does not meet criteria for quantitative reasoning and will no longer be considered a quantitative reasoning course after the 2021-2022 school year.
Global Economics	4558	Course does not meet criteria for quantitative reasoning and will no longer be considered a quantitative reasoning course after the 2021-2022 school year.

Recommended Additions to Quantitative Reasoning List of Courses		
Course Name	Course Number	Reason for Addition
Construction Trades II	5578	Course matches criteria for quantitative reasoning.
Computer Science III: Cybersecurity Capstone	5253	New name in 2020-2021; Course matches criteria for quantitative reasoning.
Computer Science III: Databases	5250	New name in 2020-2021; Course matches criteria for quantitative reasoning.
Robotic Design and Innovation	4728	Course matches criteria for quantitative reasoning.
Advanced Placement: Computer Science Principles	3020	Course matches criteria for quantitative reasoning.
Computer Science III: Informatics	5251	Course was formerly Computer Science II: Informatics prior to 2020-2021.
International Baccalaureate Biology Higher Level	3032	Course matches criteria for quantitative reasoning.
International Baccalaureate Biology Standard Level	3034	Course matches criteria for quantitative reasoning.

The entire list of quantitative reasoning courses may be found here and edited upon approval:
<https://www.doe.in.gov/standards/applied-mathematics>

For questions about the changes listed in the memorandum, please contact J. Matthew Walsh, Academic Specialist (jwalsh1@doe.in.gov).