

# Quantitative Reasoning Courses

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In November 2011, the State Board of Education passed new graduation requirements that affect incoming freshman in 2012-13.

- For the Core 40, Academic Honors (AHD), and Technical Honors (THD) diplomas, students must take a mathematics course or a quantitative reasoning course each year they are enrolled in high school.
- For the General Diploma, students must earn two credits in a mathematics course or a quantitative reasoning course during their junior or senior year.
- A quantitative reasoning course is a high school course that "advances a student's ability to apply mathematics in real world situations and contexts" and that "deepens a student's understanding of high school mathematics standards."
- The Indiana Department of Education will provide an annual review to determine the high school courses that meet these criteria.
- The tables below provide a list of courses that have been determined to meet the criteria for quantitative reasoning courses for 2013-2014.

## Advanced Placement

<b>Title/Description</b>	<b>Course Number</b>
Biology, Advanced Placement	3020
Calculus AB, Advanced Placement	2562
Calculus BC, Advanced Placement	2572
Chemistry, Advanced Placement	3060
Computer Science A, Advanced Placement	4570
Environmental Science, Advanced Placement	3012
Macroeconomics, Advanced Placement	1564
Microeconomics, Advanced Placement	1566
Physics B, Advanced Placement	3080
Physics C, Advanced Placement	3088
Statistics, Advanced Placement	2570

## Agriculture Education

<b>Title/Description</b>	<b>Course Number</b>
Advanced Life Science, Animals	5070
Advanced Life Science, Foods	5072

Agribusiness Management 5002

Landscape Management 5136

## Business, Marketing, and Information Technology Education

<b>Title/Description</b>	<b>Course Number</b>
Accounting	4524
Business Math	4512
Computer Programming I	4634
Computer Programming II	5236
Computer Science A, Advanced Placement	4570
Computer Science Higher Level, International Baccalaureate	4584
Computer Science Standard Level, International Baccalaureate	4586
Global Economics	5070
Financial Services	5258

## Engineering and Technology

<b>TITLE/DESCRIPTION</b>	<b>COURSE NUMBER (PLTW)</b>	<b>COURSE NUMBER (non-PLTW)</b>
Aerospace Engineering	4816	5518
Civil Engineering and Architecture	4820	5650
Computer Integrated Manufacturing	4810	5534
Digital Electronics	4826	5538
Engineering Design and Development	4828	5698
Principles of Engineering	4814	5644

## Family and Consumer Sciences

<b>Title/Description</b>	<b>Course Number</b>
Advanced Life Science: Foods	5072

## International Baccalaureate

<b>Title/Description</b>	<b>Course Number</b>
Chemistry Higher Level, International Baccalaureate	3070

Chemistry Standard Level, International Baccalaureate	3072
Computer Science Higher Level, International Baccalaureate	4584
Computer Science Standard Level, International Baccalaureate	4586
Economics Higher Level, International Baccalaureate	1580
Economics Standard Level, International Baccalaureate	1582
Further Mathematics Standard Level, International Baccalaureate	2580
Mathematical Studies Standard Level, International Baccalaureate	2586
Mathematics Higher Level, International Baccalaureate	2582
Mathematics Standard Level, International Baccalaureate	2584
Physics Higher Level, International Baccalaureate	3096
Physics Standard Level, International Baccalaureate	3098

## Science

<b>Title/Description</b>	<b>Course Number</b>
Biology, Advanced Placement	3020
Chemistry I	3064
Chemistry II	3066
Chemistry, Advanced Placement	3060
Chemistry Higher Level, International Baccalaureate	3070
Chemistry Standard Level, International Baccalaureate	3072
Environmental Science, Advanced Placement	3012
Integrated Chemistry-Physics	3108
Physics I	3084
Physics II	3086
Physics B, Advanced Placement	3080
Physics C, Advanced Placement	3088
Physics Higher Level, International Baccalaureate	3096
Physics Standard Level, International Baccalaureate	3098

## Social Studies

<b>Title/Description</b>	<b>Course Number</b>
Economics	1514
Economics Higher Level, International Baccalaureate	1580
Economics Standard Level, International Baccalaureate	1582
Macroeconomics, Advanced Placement	1564
Microeconomics, Advanced Placement	1566

## Trade and Industrial Education

<b>Title/Description</b>	<b>Course Number</b>
Advanced Manufacturing II	5606
Architectural Drafting and Design II	5652
Construction Technology: Electrical II	4832
Construction Technology: HVAC II	5498
Electronics and Computer Technology II	5694
Mechanical Drafting and Design II	4838
Precision Machining I	5782
Precision Machining II	5784