I. Regulation and Courses

The minimum graduation regulation 704 KAR 3:305 (3)(b) states, “A mathematics course or its equivalent as determined by the district shall be taken each year of high school to ensure readiness for postsecondary education or the workforce”; therefore the KDE does not maintain a list of “approved” courses for the 4th year of mathematics, as these courses can be determined by the district. However, it is important to note that Section (2)(8) of this same regulation requires “Academic and career interest standards-based learning experiences – seven (7) credits including four (4) standards-based learning experiences in an academic or career interest based on the student’s individual learning plan;”

Also, the regulation states in (3)(d), “If a student does not meet the college readiness benchmarks for mathematics as established by the Council on Postsecondary Education in 13 KAR 2:020, the student shall take a mathematics transitional course or intervention, which is monitored to address remediation needs, before exiting high school.” So, a fourth mathematics course could be a transitional or college/career ready math course.

Other courses that could follow Algebra II and are commonly considered as 4th mathematics courses are:

1. Algebra III,
2. Transitional/intervention/CCR Math,
3. Pre-calculus,
4. Integrated Math IV,
5. Trigonometry,
6. Calculus (AP (AB and BC) or not AP),
7. AP Computer Science (A or P)*
8. Math Concepts, Discrete Math, Finite Math, Advanced Topics in Math,
9. Probability & Statistics (AP or not AP),
10. Dual credit mathematics or related-content course,
11. ESL/Special Topics in Math (160132) for English Language Learners only – extensive support
12. IB mathematics courses (for IB schools only)
13. Math for Business and Industry (interdisciplinary math/CTE),
14. Agriculture Math (interdisciplinary math/CTE),
15. Financial Literacy for math credit (interdisciplinary math/CTE),
16. Medical Math for math credit (interdisciplinary math/CTE),
17. Money Skills for math credit (interdisciplinary math/CTE)
18. **Advanced** Accounting (interdisciplinary math/CTE - 070125) and
* Since an AP course framework is provided for this course and that framework is used to
develop curriculum in preparation for AP testing, AP Computer Science is considered a
mathematics course by College Board (CB) and KDE. Other computer programming/science
course curriculums should be thoroughly reviewed before including them as a 4th mathematics
course possibility. See guidance on page 2 of this document.

This is not an exhaustive list of course possibilities. Please view the State Course Codes List for
course codes and descriptions.

II. Guidance and Contact Information

The KDE provides guidance to districts for determining whether or not other courses should
count as a 4th mathematics course that are not specific to mathematics or are not listed in the
uniform course code under mathematics.

1. Review of curriculum and resources for each course under consideration: it is best
practice to have a high school mathematics certified teacher group review each course
curriculum to determine the level of high school mathematics required in the course,
including the standards for mathematical practice, and make a recommendation to the
district. Consideration should also be given to mathematics courses that enable
students to be ready for postsecondary education or the workforce. Minimum
graduation requirements regulation 704 KAR 3:305 states “A mathematics course or
its equivalent as determined by the district shall be taken each year of high school to
ensure readiness for postsecondary education or the workforce.”

2. Each school should make sure to document which courses have been reviewed and
can be considered as a 4th mathematics course. This information can be used by the
guidance office to appropriately schedule students.

3. The district must ensure that an appropriately certified teacher is assigned to teach
each course for LEAD reporting. This should occur before offering and scheduling
students. The authorization of ESSA has caused changes. Check with district
personnel who handle the LEAD report. If further questions arise, visit
www.kyepsb.net or call EPSB at (888) 598-7667 for the latest teacher permissions
and requirements.

4. Document course(s) taken to meet minimum mathematics requirements. This
documentation should be maintained to demonstrate each student taking the reviewed
course(s) has met minimum graduation requirements for mathematics.

For additional information please contact:
kdemath@education.ky.gov