

STEM

(c-1) A student may earn an endorsement on the student's diploma and transcript by successfully completing curriculum requirements for that endorsement adopted by the State Board of Education by rule. The State Board of Education by rule shall provide students with multiple options for earning each endorsement, including, to the greatest extent possible, coherent sequences of courses. The State Board of Education by rule must permit a student to enroll in courses under more than one endorsement curriculum before the student's junior year. An endorsement under this subsection may be earned in any of the following categories:

- (1) science, technology, engineering, and mathematics (STEM), which includes courses directly related to science, including environmental science, technology, including computer science, engineering, and advanced mathematics

Considerations:

- Many STEM fields of study at the postsecondary level require prerequisite knowledge in advanced mathematics, chemistry, and physics.
- Many of the currently approved math courses require Algebra II as a prerequisite.

Decisions Points:

- (1) Number of courses that a student must complete to earn an endorsement
- (2) Require specific courses for the endorsement?
- (3) Course options for the endorsement

Recommendation:

- (2) Require Algebra II, chemistry, and physics

Examples:

- (1) Four credits related to the endorsement
- (3) (A) Coherent sequence of four CTE courses that includes at least two courses in the same cluster and at least one advanced CTE course. The final course in the sequence must be from the STEM Career Cluster.
- (B) Coherent sequence of four courses in one of the following areas:
- Computer Science
 - Math credit courses for which Algebra II is a prerequisite
 - Science credit courses beyond biology, chemistry, and physics, including at least two AP or IB credits