Revisions to the REPA Standards for Computer Education were guided by recommendations made during an alignment study between the standards and the Indiana Academic Standards for Computer Science, by Indiana state educator reviewer comments, the Computer Science Teachers Association (CSTA) K–12 Computer Science Standards, and the K12 Computer Science Framework.

Revisions include:

- realigning the standards to match the Indiana Academic Standards for Computer Science (K–12), the CSTA Standards, and the K12 Computer Science Framework;
- placing a greater emphasis on concepts related to programs, algorithms, and programming to reflect the Indiana state standards and national trends in computer education; and
- including content from the Indiana Academic Standards for Computer Science (K–12) and additional Indiana computer science standards (e.g., Computer Science I, Computer Science III: Cybersecurity).