

Faculty Tips for Courses that Meet the Core Requirement of Competency in Quantitative Reasoning (CQR)

The following insights were generated by faculty scorers who collectively analyzed 241 student works across three core areas during the Fall 2019 CQR Assessment Project. The Core Assessment Team compiled these tips, which are designed to help faculty and students in future CQR courses.

1. **Distribute CQR rubric to students.** Provide students with the CQR rubric early in the semester to provide transparency and clarity to expectations related to CQR learning outcomes.
2. **Where it is reasonable, connect CQR concepts to real-world applications.** This will help students to see the transferability of the discipline-specific skills they are developing in your course. It will also help them to better understand the larger general picture of the purpose of this core requirement.
3. **Provide students with extra opportunity to practice CQR learning outcomes 3, 4, and 5: Interpretation, Assumptions/Limitations, and Justification.** These outcomes involve higher order thinking skills that are particularly challenging to students. Learning outcomes 4 and 5 are particularly challenging for students.
4. **When designing your course, think about how you will address learning outcome 5: Justification.** When addressing a question that requires quantitative reasoning, should a student need to provide quantitative evidence to back up an argument that has been expressed in words? When reporting a mathematical conclusion to a question posed that has a quantitative reasoning basis, should a student explain in words the possible limitations associated with that conclusion?