

Thinking Critically in Undergraduate Biology: Flipping the Classroom and Problem-Based Learning

Tracie Marcella Addy
Yale University

Catherine LePrevost
North Carolina State University

Maura Stevenson
Quinnipiac University

Critical thinking is intrinsic to STEM (science, technology, engineering and mathematics) disciplines. In this report from the field, we highlight why it is important for biology students to develop their critical thinking during their undergraduate years, as we have seen that students with poorer skills have lower levels of achievement in our courses, often resulting in their attrition in the discipline. Drawing upon our teaching experiences and research conducted in our courses, we discuss how two learning environments can be adopted in undergraduate biology to foster critical thinking through writing assignments.

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