

Statement of Work: Las Positas College

This Scope of Work is for development of instructional tools for collaborative and inclusive learning to be provided by Michal Shuldman and one other faculty member to be named to implement the activities associated with the research questions in this proposal.

Contributions will be made by Dr. Michal Shuldman and Dr. Kai Blaisdell (Team Members), alongside participants from the University of California, Berkeley, California State University-Stanislaus, and California Community Colleges, will provide expertise as teacher-educators of lower division undergraduate-level biology and faculty trainers in STEM.

Overall, collaborators for this project have extensive teaching expertise and prior research related to the scientific fields represented in the subject area of general biology. Strengths of the collaborators include expertise in STEM curriculum design, including active learning strategies for large lecture classrooms, and training in pedagogy grounded in the learning sciences.

During the period of this project (September 15, 2022-June 30, 2024), Team Members

- Develop workshop material and programming for faculty participants. Co-lead workshops with other team members.
- Contribute to recruiting faculty participants for the program.
- Facilitate teams of participants in activity design, deployment and testing of curriculum activities using a Design-Based Research model. Design and iteration of activities will draw from Discipline-Based Education Research, and existing online curricula.
- Facilitate teams of participants by supporting participants in designing and distributing pre- and post-activity surveys of students and iterating activities based on student performance and reflection.
- To disseminate findings, they will attend conferences or coauthor presentations or research papers resulting from this project.