Development, Implementation and Outcomes of an Integrated Science Curriculum for First-Year STEM Students

This seminar will discuss the development of two integrated science courses for first-year STEM students. Integrated Quantitative Science (IQS) combines the concepts and skills for first semester biology, chemistry, physics, calculus and computer science, while Science, Math and Research Training (SMART) incorporates biology, chemistry and the first year of calculus. Both courses form learning communities organized around socially relevant themes (e.g., antibiotic resistance, climate change) with a strong focus on inquiry-based learning and interdisciplinary thinking. Course-based research experiences that include experiments, modeling, and simulations help train students to identify as scientists and provide important research skills and thinking. These courses have been featured in Nature and other STEM publications and this presentation will present outcomes for both students and affiliated faculty.

Tuesday, May 17, 2016
4:00 P.M.
154 BSRB

If you would like to meet with the speaker or attend dinner with the speaker, please contact Carol Canedo at (310) 206-4956 or carol@chem.ucla.edu