

Elizabeth Gabbard

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Summary

Science instructor, specializing in chemistry, who is passionate about science education with 20 years' experience developing and delivering science instruction to adult students. Experienced in developing course materials and syllabi. Focused on student learning and development. Excellent presentation skills. Experienced with many forms of on-line learning and course management systems.

Experience

UNIVERSITY OF COLORADO COLORADO SPRINGS | 2019 – PRESENT

- Assistant Teaching Professor from 2019 – 2023
- Associate Teaching Professor from 2023 – present
- Taught CHEM 1201, CHEM 1211, and CHEM 1221, both lecture and labs
- Assisted in reorganizing the 1201 and 1211 lab into an Open Educational Resource
- Reorganized CHEM 1211 content and created content video to improve the flow of content and ensure for updated language
- Moved the course assessments for 1211 to ALEKS (the homework platform)
- Held combined office house with Niki Juhl in the science center, for both 1201 and 1211 courses

ANNE ARUNDEL COMMUNITY COLLEGE | 2009 - PRESENT

- Adjunct instructor in the Department of Physical Science, responsible for teaching multiple sections of General Chemistry I lectures and the associated labs as well as Introductory Chemistry lecture, World of Chemistry lecture and Physical Science lecture and lab; taught over 400 students
- Was selected in the fall of 2015 for a special contract, teaching 14 credit hours per semester
- Implemented a modified flipped classroom style of teaching in collaboration with another instructor starting in the fall of 2015 and continuing into the current semester with marked improvement in student success
- Consistently receives student feedback ratings among the highest in the department and well above the average for both the department and the college
- Currently collaborating with another faculty to update the online section of General Chemistry I; including interactive components to the course such as in-house videos and chat sessions
- Received excellent classroom observations through the departmental peer mentoring program for General Chemistry I lab in the spring of 2015 and for Introductory Chemistry in the fall of 2015

HOWARD COUNTY COMMUNITY COLLEGE | 2015

- Adjunct instructor for the Department of Science and Technology, responsible for two sections of General Chemistry II lab in the spring of 2015 while receiving excellent student evaluations and classroom observations
- Responsible for teaching one section of General Chemistry I in the summer of 2015

Commented [GD1]: Do you know your 'success rate'?

Commented [GD2]: Sounds like only once – maybe reference that it is continuous since then?

Commented [GD3]: What impact did this have on student success/achievement?

Commented [GD4]: Teaching or developing?

WASHTENAW COMMUNITY COLLEGE, ANN ARBOR, MICHIGAN | 2008

- Adjunct instructor for the Department of Physical Science for three semesters (Winter, Summer, Fall 2008)
- Taught multiple sections of General Chemistry I lectures and the associated labs in each of the semesters, responsible for developing syllabi and course material for the courses
- Consistently received high student evaluations, above the college average; selected based on student recommendations to substitute for other instructors
- Maintained courses online (via Blackboard) and selected as one of the lead instructors in implementing and electronic homework and course management system (McGraw-Hill's ARIS)

COMMUNITY COLLEGE OF RHODE ISLAND | 2000 – 2001

- Developed all educational materials for three lecture courses in the Chemistry Department: Environmental Chemistry, Basic Chemistry and General Chemistry; materials included lesson plans, exams, quizzes, homework and notes
- Taught lab for Basic Chemistry and General Chemistry courses
- Taught more than 70 students in 5 classes over three semesters with consistently excellent instructor feedback

MISSISSIPPI GULF COAST COMMUNITY COLLEGE | 1998 – 2000

- Developed all educational materials for six lecture classes in the Science Department: Principles of Chemistry I & II, Physical Science Survey I & II; materials included the syllabus, lesson plans, exams, quizzes, homework, and notes
- Delivered lecture courses in Principles of Chemistry I & II, Physical Science Survey I & II, and General Chemistry I & II
- Developed and implemented new and rigorous safety standards for all chemistry labs within the college, which lead to increased student and stockroom safety and met environmental standards
- Hand selected to teach Principles of Chemistry I to a group of employees from DuPont; compressed a semester's worth of material into 8 days while receiving excellent instructor reviews

Professional Development

- Hand selected to participate in a yearlong cohort learning experience designed to provide participants with the principles of student success; led to implementation of innovative classroom strategies geared toward increasing student achievement
- Presented at the Association of Faculties for Advancement of Community College conference in January of 2017; illustrated implementation of flipped classroom teaching strategies in a traditional classroom environment
- Attended the Science of Learning and Gateway Sciences Joint Symposium at Johns Hopkins University, January of 2016

Service

- Volunteered to serve as co-chair of the Adjunct **Affairs Committee** for the 2017 -2018 academic year
- Served on the Adjunct Affairs Committee for Anne Arundel Community College during the spring of 2014 and was integral in analyzing the 2014 Adjunct Faculty Survey and collaborated in making recommendations in response to the survey to the Vice **President of Learning** resulting in an

Commented [GD5]: When?

Commented [GD6]: What impact did the recommendations have?

implementation of an increased, stepped pay scale for adjunct instructors who taught at the college for at least eight terms and completed thirty hours of professional development

- Served on the Sciences Professional Development Committee, promoting continued education and teaching strategies for faculty teaching science courses since the fall of 2016
- Hand selected to participate in departmental evaluation of the General Chemistry courses in order to update the current course structure to promote student engagement and critical thinking; was instrumental in modifying the lab portion of the course to meet the goals of improved student engagement and enhanced critical thinking
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Education

MASTERS OF SCIENCE | 1998 | UNIVERSITY OF ARIZONA

- Major: Analytical Chemistry

BACHELORS OF SCIENCE | 1995 | SIENA COLLEGE

- Major: Chemistry, Cum Laude

Commented [GD7]: Cum Laude?

Publications

- Gabbard, Elizabeth and Sivalingam, Shyamala (2017). "Modified Flipped Classroom Teaching for Science Classes", Proceedings of The Twenty-Seventh Annual Conference Association of Faculties for the Advancement of Community College Teaching. Presented at: Association of Faculties for the Advancement of Community College Teaching, Harford Community College, Bel Air, MD, January 5 (pp. 8)
- S. Scott Saavedra, Paul L. Edmiston, John E. Lee, Laurie L. Wood, Darren R. Dunphy, Rebecca T. Robertson, Elizabeth A. Gabbard, and Sergio B. Mendez, Proc. SPIE-Int. Soc. Opt. Eng. 1999, 3558, 146-150. "Probing Structure and Function in Planar Supported Protein Films."

Commented [GD8]: Looks like you jointly did this with Shyamala? Not documented here as such