

Frederick L. Nelson
Curriculum and Instruction
California State University, Fresno
Title: Assistant Professor
Appointment Date (August 2012)

Academic Degrees

- Ph. D. - University of Florida
- M.S. – Kansas State University
- B.S. – Kansas State University

Other Professional Experiences

- June 2006 / University of North Florida

Teaching Experience

- CI149 Curriculum, Instruction, and Technology in Secondary Classrooms
- CI161 Methods and Materials for Teaching Secondary Science (Foundation Level General Science Credential)
- CI161 Methods and Materials for Teaching Secondary Science (Single Subject Credential)
- CI175 Science Instruction and Applied Technology
- CI240 Social Justice and the Multicultural Classroom
- CI275 Advanced Instructional Theory
- CI290 Independent Study
- CI298 M.A.E. in Curriculum and Instruction Project Supervision
- EHD155A Student Teaching in Secondary School
- EHD178 Field Study B
- NSCI106 Nature of Science

Other Collegiate Work

- 2014-present—Liberal Studies Review Committee Member
- Instructional Design and Technology Director Faculty Search Committee Member, 2015
- Liberal Studies STEM Education Search Committee Member, 2015
- Biology Education Faculty Search Committee Member, 2014
- Committee Member, Campus Arboretum Committee, 2014-present
- Coordinator, Kremen School of Education and Human Development
- Secretary, KSOEHD Faculty Assembly, 2013-2015
- Committee Member, KSOEHD Equity Committee, 2012-present
- Committee Member, KSOEHD Research Committee, 2012-present
- Committee Member, Campus Planning Committee, 2013-present

Professional Association Memberships

- 2011-present--American Educational Research Association
- 2011-present--Association for Science Teacher Education
- 2012-present--California Faculty Association
- 2012-present--California Science Teachers Association
- 2000-present--National Science Teachers Association

Selected Publications

- Nelson, F. L., Miller, L., & Yun, C. (2016). "It's OK to feel totally confused": Reflection without practice by preservice teachers in an introductory education course. *Reflective Practice: International and Multidisciplinary Perspectives* 17 (5), 648-661.
- Yun, C., Nelson, F. L., Bennett, L., & Pandya, J. Z. Developing a habit of reflective practice: The importance of learning from your teaching. (Submitted for initial review).
- Sherchan, S., Pasha, F., Weinman, B., Nelson, F. L., Sharma, F. C., Therkelsen, J., & Drexler, D. (2016). Seven faculties in search of a mission: A proposed interdisciplinary course on water literacy. *Applied Environmental Education and Communication* 15 (2), 171-183.
- Nelson, F. L. (2015). What we see when we look in the mirror: Conceptions of and intentions for reflection by science teacher educators. *Cogent Education* 2 (1), 1-17.
- Wandeler, C. & Nelson, F. (2015). [A map of reflective practice for mentors and mentees.] *Eine Landkarte zur reflexiven Praxis für Mentoren und Mentees. Zwischen Theorie und Praxis: Ansprüche und Möglichkeiten in der Lehrer (innen) bildung. Festschrift zum 65. Geburtstag von Alois Niggli*, 131-146.
- Nelson, F. L., & Sadler, T. D. (2013). A third space for reflection by teacher educators: A heuristic for understanding orientations to and components of reflection. *Reflective Practice: International and Multidisciplinary Perspectives* 14 (1), 43-57.

Selected Grant Writing Submittals

- Co-Principal Investigator, CSU New Generation of Educators Initiative, *Preparing a New Generation of Teachers for California*, \$1.2 million
- Co-Principal Investigator, National Science Foundation Improving Undergraduate STEM Education Grant, *Enhancing the Quality of Undergraduate Investigations in Physical Science*, \$299,446 (Unfunded)
- Principal Investigator, California Department of Education, *Science Framework for California Public Schools*, 2015, \$12000
- Principal Investigator, S. D. Bechtel, Jr. Foundation, Preparing the Next Generation of Educators Program, *Strategic Teacher Education Partnership*, 2015, \$230,000
- Principal Investigator, National Science Foundation EAGER Grant, *Project GEOPaCK*, 2014, \$300,000 (Unfunded)
- Principal Investigator, U.S. Department of Interior Bureau of Reclamation Water Conservation Program Education Grants, *Project WECaRE: Water Experiences for Conservation and Recycling Education*, 2014, \$100,000 (Unfunded)
- Principal Investigator, CSU Chancellor's Office Undergraduate Science Project, *A STEM Concentration in Liberal Studies*, 2013, \$20000
- Co-Principal Investigator, CSU Water Resources & Policy Initiatives Faculty Research Incentive Award, *Water Literacy*, 2013, \$19055

Selected Refereed Presentations

- Miller, L. R., Nelson, F. L., Bennett, L., & Yun, C. (2016, April). "I'm not the expert anymore": *Reconsidering educator roles in a tablet course for preservice teachers*. Paper presented at the Annual Meeting of the American Educational Research Association, Washington, DC.
- Nelson, F. L., Brady, M, Mandaville, A., & Weinman, B. (2016, February). *Developing a place-based, contextually relevant common read experience across campus*. Poster presented at the Association of American Colleges & Universities Conference on General Education and Assessment, New Orleans, LA.
- Nelson, F. L., Miller, L., & Keeler, A. (2015, April). *Low risk of failure: Reflection without practice by preservice teachers in an introductory education course*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.