

Steven D. Koether

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Education

Doctor of Philosophy, Education & Human Resource Development - Adult Education
Texas A&M University, College Station, TX **Present**

Master of Science, Biological Sciences **2007**
Sam Houston State University, Huntsville, TX

Bachelor of Science, Wildlife & Fisheries Sciences/ Entomology **2003**
Minor in Spanish
Texas A&M University, College Station, TX

Employment History

Coordinator IV – Foundations of Science, Sam Houston State University **2012-Present**
Huntsville, TX

Lab coordinator

Train and provide direct supervision to graduate teaching assistants; conduct weekly prep sessions with lab instructors; requisition materials and equipment; schedule labs and lab instructor assignments; manage lab manual revisions

Data coordinator

Schedule, manage, and implement program assessments; disaggregate assessment data for lecturers; obtain research approval through the Institutional Review Board; collaborate with Institutional Research and Effectiveness; collaborate with TTU-Critical Thinking Assessment Test

Instructor

Conduct online and in-person classes; hold monthly instructor meetings; obtain instructional materials; organize course schedules; set up instructor trainings; maintain personal instructional training (Examples include: National Center for Case Study Teaching in Science, Writing In the Disciplines, Project Based Learning, Teaching Series)

Instructor – Introduction to Collegiate Studies, Sam Houston State University **2013-Present**
Huntsville, TX

Conduct in-person writing enhanced classes designed to improve student GPA, retention rates, and graduation rates; expose students to the many resources on campus; help students bridge the gap between their chosen careers and their education

District Science Coordinator (K-12), Montgomery ISD
Montgomery, TX

2011-2012

District Science

Curriculum leader – created, implemented, monitored, and evaluated science curriculum; horizontally and vertically aligned curriculum within and between campuses across the district; developed, planned, presented, and led curricular in-service training; disseminated information regarding current research and significant developments on the state and national levels

Instructional leader – functioned as an instructional coach by observing classroom instruction and providing feedback to celebrate successes, enacted improvement, and incited innovation; developed, planned, presented, and led pedagogical in-service training; promoted successful relationships with staff, administration, and district representatives

District Programs (inclusive of all subjects)

DMAC (Data Management for Assessment and Curriculum) – organized uploads; managed district, campus, and teacher access; performed disaggregation of state and local data; performed district and campus trainings on the use of the program

AVENTA – supervised the district online course management system for credit recovery

PEAK Learning Systems – organized the implementation of a district wide instructional multi-curricular coaching model

Teacher, Montgomery High School, Montgomery ISD
Montgomery, TX

2009-2011

Biology (On-Level, Inclusion)

Chemistry (On-Level, Inclusion)

Teacher, Andy DeKaney High School, Spring ISD
Houston, TX

2007-2009

Biology (inclusion, on-level, pre-AP)

Integrated Physics and Chemistry (inclusion, on-level, pre-AP)

High School Science Department Chair (2008-2009)

Instructional leader – planned, presented, and led in-service workshops; curriculum writing; modeled effective teaching practices; mentored new teachers and hires

Interpersonal manager – promoted successful relationships with staff, administration, and district representatives; motivated teachers; implemented, monitored and evaluated the district's curriculum objectives; conducted walk-through evaluations of teacher/student performance

Liaison – Represented DeKaney, teachers, and district at various meetings and functions; disseminated policies, procedures, and information

Teacher, Andy DeKaney High School – Continued
Houston, TX

Science Olympiad Head Coach (2007- 2009)

Managed the students and coaches for interscholastic competitions in science;
2008 SISD Competition – 2nd place and Team Spirit Award

Biology Team Leader (2007-2008)

Materials and Interpersonal manager – Promoted successful relationships among staff and administration; implemented and monitored district objectives; organized and disseminated course materials and content

Instructor, LoneStar Community College - Montgomery
Conroe, TX

2007

BIOL 2404 (Anatomy and Physiology)

Presented course content and material including lectures, notes, handouts, homework, quizzes, and exams; presented and led the laboratory portion of class, including dissections, lab practicals, and study group sessions; managed Interwrite Personal Response Systems (PRS) for student participation;

Instructor, Sam Houston State University
Huntsville, TX

2006-2007

BIO 134 (Contemporary Biology)

BIO 161 (Botany)

Developed and presented course content including lectures, notes, handouts, homework, quizzes, and exams; Managed PRS for student participation; Utilized Blackboard; held regular office hours to provide additional support to students; served on Non-majors Biology Committee: Developed course content; interacted with departmental support staff for relevant procedural documentation

Graduate Teaching Assistant, Sam Houston State University
Huntsville, TX

2004-2006

BIO 111 (General Botany Lab), BIO 114 (Contemporary Biology Lab), BIO 117 (Environmental Science Lab)

Taught labs; used Blackboard; procured materials for laboratory experiments; served on Non-majors Biology Committee: Developed lab content and authored a laboratory chapter for Contemporary Biology

Biological Lab Technician, United States Department of Agriculture
College Station, TX

1998-2004

Performed greenhouse and growth chamber experiments; collected, analyzed, and summarized data; analyzed roots for growth and nematode infection; extracted nematodes through Baermann funnel and centrifugal flotation; performed moisture and texture analyses of soil samples; prepared posters and presentations for scientific journals and conferences

Community & Campus Service

Assessing Political Learning & Engagement on Campus, SHSU/AASCU 2017-Present

- * Campus Co-Liason – Leading a campus-wide coalition of faculty, staff, and student community members to assess political learning and engagement at Sam Houston State University. The ultimate goal is to take action, based on community representation and input, to improve equity and access to political learning and engagement. The initiative derives from the American Association of State Colleges and Universities (AASCU) and Institute for Democracy and Higher Education (IDHE) research center at Tufts University.

National Blended Course Consortium, SHSU/AASCU 2016-Present

- * Faculty Fellow - creating a nationally available non-science major's course, Science for Citizens, for colleges and universities in the AASCU system

American Democracy Project Committee, SHSU/AASCU

- * Chair **2018-Present**
- * Event Chair – Critical Thinking through Deliberative Dialogues **2017-Present**
- * Member **2016-Present**

Re-imagining the First Year, SHSU/AASCU

- * Faculty Committee Member **2017-Present**
- * Co-Chair Curriculum Committee – creating and evaluating **2016-2017**
campus initiatives for first year freshmen, including: University 1301
(Introductory College Course)

Administrative Program Review Committee, SHSU 2016

- * Programmatic review of the Mentoring program at the SAM Center

Haven Diversity Advocate, SHSU 2012-Present

- * Attend annual diversity trainings; provide a safe space for Lesbian, Gay, Bisexual, Transgender, Intersex, and Queer/Questioning (LGBTIQ) community

Response System Selection Committee, SHSU 2012

- * Selecting a common campus-wide standard student response system (clicker)

Publications

Gillespie, M., Koether, S. D., & Lewis, M. L. (2016). Fostering the Disposition to Think Critically and a Positive Attitude toward Science: The Results of a Successful Six-Year Study of an Innovative, General Education Integrated Science Course. *Inquiry: Critical Thinking across the Disciplines*, 31(2), 5-25. doi:10.5840/inquiryct201631210

Rowe, M. P., Gillespie, B. M., Harris, K. R., Koether, S. D., Shannon, L. Y., & Rose, L. A. (2015). Redesigning a General Education Science Course to Promote Critical Thinking. *Cell Biology Education*, 14(3). doi:10.1187/cbe.15-02-0032

Presentations, Talks, & Roundtables

- Koether, S.D. (2018). Using Critical Reflection to effect Dispositional Change toward Critical Thinking and Gain Insight into Student Learning. *Adult Education Conference*.
<http://newprairiepress.org/aerc/2018/roundtables/1>.
- Koether, S.D. (2018). Using Critical Reflection to effect Dispositional Change toward Critical Thinking and Gain Insight into Student Learning. *Adult Education Conference*.
<http://newprairiepress.org/aerc/2018/roundtables/1>.
- Koether, S.D. (2018). Using Critical Reflection to Gain Insight into Student Learning and Effect Dispositional Change toward Critical Thinking. 2018 Digital Education Summit, SHSU. January 25-26.
- Koether, S.D. (2017). A realistic approach to providing meaningful feedback in the classroom and online. STEM Conference: Lamar University College of Engineering and Office of the Provost. November 16.
- Koether, S.D. (2016). Virtual Groups – Simulated Discussions. 6th Annual Digital Education Summit: SHSU Online. March 9-10.
- Gillespie, B.M., Koether, S.D., Roberts, J. (2016). What is Critical Thinking and How Can We Teach It? 13th Annual SHSU Teacher and Learning Conference. August 18.
- Koether, S.D. (2016). Virtual Office – Real People. 5th Annual SHSU Online Teaching and Learning Conference. March 3-4.
- Koether, S.D. (2015). Using Blackboard Wikis to Facilitate Group Work. 4th Annual SHSU Online Teaching and Learning Conference. March 26.
- Shannon, L.Y., Koether, S.D. (2014). Assessing Critical Thinking Skills in Online and Face-to-Face Platforms for an Interdisciplinary General-Education Science Course. Abstract presentation at Information Systems Education Conference, Baltimore, MD.
- Gillespie, B.M., Harrison, K.E., Ponce, T., Koether, S.D. (2013). Teaching with Case Studies. Talk at Texas A&M University, Kingsville. Instructor Training for College of Arts and Sciences Faculty Retreat. August 21.
- Miller, S., Koether, S.D. (2013). Using “Clickers” in the Classroom. 10th Annual SHSU Teaching and Learning Conference. August 22.
- Koether, S.K. (2012). Texas State Standards and Assessment. Past, Present, and Future. Talk at the Department of Biological Sciences Seminar Series. September 6.

Grants

- (2018) Assessing and Improving Political Learning & Engagement on Campus Grant \$1,000
 American Association of State Colleges & Universities and
 The Institute for Democracy & Higher Learning

(2015) Sam Houston State University, Institutional Effectiveness Mini-Grant

\$1,000