Scott A. Grimes

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Education

Master of Arts, ChemistryMay 2014The University of Texas at AustinAustin, TXThesis Advisor: Alan H. CowleyAustin, TX

Bachelor of Science, Chemistry

Texas State University
Minor: Biology

Professional Teaching Experience

Lecturer of Chemistry, UNT-Dallas

Classes Taught:

All classes listed under Adjunct Professor

CHEM 3350- Physical Chemistry I

CHEM 3151- Physical Chemistry Lab I

CHEM 1410- General Chemistry I

CHEM 1420- General Chemistry II

CHEM 3220- Organic Chemistry I Lab

CHEM 3230- Organic Chemistry II Lab

BIOL 4120- Environmental Chemistry

BIOL 1132- Environmental Science

BIOL 1080- Biology for Educators Lab

GEOG 1710 Earth Science

Adjunct Professor of Chemistry, UNT-Dallas

Classes Taught:

CHEM 1360- Chemistry for Non-Majors Lab

CHEM 1430- General Chemistry I Lab

CHEM 1440- General Chemistry II Lab

Chemistry Teacher, Everman Independent School District

August 2015-August 2016

Fall 2017-Fall 2020

Helped design coursework with a small team for freshman/sophomore students. I taught over 170 students in an ethnically and socio-economically diverse classroom, while fostering relationships with students to maintain discipline. In continuing education I learned many cutting-edge pedagogy techniques. Served as chemical safety expert.

Substitute Teacher, Birdville Independent School District

October 2014-Present

Taught a variety of middle and high school classes. Supervised different students each day while still upholding classroom expectations. Interacted with students of many different cultural and socio-economical backgrounds, including students with special needs.

Spring 2020-Present

May 2008

San Marcos, TX

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Curriculum Development

<u>Degree Programs Developed</u>

BA in Chemistry- Fall 2023 **BS in Chemistry**- Fall 2023

Courses Developed

Analytical Chemistry
Physical Chemistry I and II
Instrumental Analysis
Inorganic Chemistry
Sustainable Chemical Processes
Quantitative Analysis

Community Engagement

TrueBlue and Trailblazer360

Represented the Natural Science Department in university-wide community and student outreach events, providing interested parties with information and advice regarding our degree programs and possible career paths that can result from them

Girls Inc. STEM Summer Camp

Co-directed a middle-school girls camp about the collegiate experience and STEM education. Organized staff presentations and officiated physical education periods.

Biology Club Faculty Advisor

Recruited and trained officer candidates while advising the executive office team on the production of professional biology related events

DISD STEM Expo and ISEF STEM Education Day

Represented the Natural Science Department in a district-wide community and student outreach events, providing interested parties with information and advice regarding our degree programs and possible career paths that can result from them

Committee Work

LAS Curriculum Committee, Member (2023-) Faculty Senate Nominations and Elections, Chair (2024-) Faculty Handbook Committee (2022-2023)

Research Experience

Graduate Research, The University of Texas at Austin

August 2008-May 2014

Advisor: Dr. Alan Cowley

- Prepared and characterized new phosphonium ionic liquids suitable for electrochemical applications
- Electrodeposited nanocrystalline silicon from various silicon precursors in said ionic liquids

Keywords: ionic liquids, electrochemistry, thermal characterization, DSC, TGA, phosphonium, cyclic voltammetry, air free synthesis, green chemistry, carbon dioxide sequestration, multinuclear NMR, electrodeposition

Page 3 of 4 Scott A. Grimes Explored the synthesis of amine-functionalized phosphonium ionic liquids for the sequestration of carbon dioxide

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Awards

Outstanding Undergraduate Instructor Texas State University 2008

Faraday Teaching Excellence Award The University of Texas at Austin Fall 2009

Conference Presentations

Grimes, S.A. Electrodeposition in Phosphonium Ionic Liquids. Presented at the Third Annual Center for Electrochemistry Workshop, Austin, TX, February 19-20, 2011. (Poster)

Grimes, S. A., Cho, S., Cowley, A.H., Bard, A.J. Electrodeposition of silicon in a phosphonium ionic liquid. Presented at the American Chemical Society Spring 2012 National Meeting, San Diego, CA, March 25-29, 2012. (Oral)

Posters were also presented at the First (2009) and Second (2010) Annual Center for Electrochemistry Workshop