TEXAS STATE UNIVERSITY VITA

I. ACADEMIC/PROFESSIONAL BACKGROUND

NAME
Duke Wayne Willoughby

TITLE
Associate Professor of Instruction

EDUCATION

Degree	***Year***	***University***	***Major***
BS	1989	Texas Lutheran University	Chemistry
MS	1994	University of Utah	Organic Chemistry
MPH	1996	University of Utah	Health Service Admin.

EXPERIENCE

Position	***Entity***	***Dates***
Associate Professor	Texas State University	2026-present
Assistant Professor	Texas State University	2024-2026
Lecturer	Texas State University	2021-2024
Teacher	Austin ISD	2001-2021
Adjunct Professor	Austin Community College	2008-2018
Project Manager	PPD Development	1999-2001
Lab Manager	SCIREX Corporation	1997-1999
Technical Supervisor	ARUP Laboratories	1993-1997

OTHER PROFESSIONAL CREDENTIALS
Texas Teacher Certification – Physical Sciences (grades 8-12)

II. TEACHING

COURSES TAUGHT

Austin Independent School District
- AP Chemistry
- Pre-AP Chemistry
- Chemistry
- Pre-AP Physics
- Physics
- Astronomy

Austin Community College
- Introductory Chemistry, lecture and lab
- General Chemistry I, lecture and Lab
- General Chemistry II, lecture and Lab
- Organic Chemistry I, lab
- Organic Chemistry II, lab

Texas State University
- General Chemistry I (CHEM 1341)
- General Chemistry II (CHEM 1342)

Chemistry for Engineers (CHEM 1335)
Foundations of Chemistry (CHEM 1320)

III. SCHOLARLY/CREATIVE

ARTICLES

West, F.G.; Willoughby, D.W. "Intramolecular Arene Trapping of Pyran-5-one Derived Zwitterions: A Two-Step Synthesis of Tetrahydrobenz[e]inden-1-ones." *J. Org. Chem.* **1993**, 59, 3796.

Reeves, W.P.; Murry, J.A.; Willoughby, D.W.; Friedrich, W.J. "Clemmensen Reductions Using Ultrasonic Irradiation." *Synth. Commun.* **1988**, 18, 1961.

PUBLICATIONS

Willoughby, Duke; Nassar, Omneya; Luxford, Cynthia. "General Chemistry 1 Workbook: CHEM 1341." McGraw Hill Education, Create.

IV. SERVICE

DEPARTMENTAL SERVICE

Department Instructional Assessment (DIA) Committee (Fall 2021)
Transformer Project, Department of Faculty Professional Development (2022-2024)
STEMCommunities Learning Assistant Program, Chemistry Team Leader (2022-present)
Coordinate Substitution for Faculty Classes (Fall 2023)
CheMIE REU Career Panel (Fall 2023)
Non-Tenure Line Faculty Title Series Sub Committee Member (Fall 2023-Spring 2024)
Chaired Foundations of Chemistry Course Development Committee (F2023- S2024)
General Chemistry Coordinator (Fall 2024 – present)

INSTITUTIONAL SERVICE

General Education Council Member (Spring 2024 - present)
Outcomes and Assessments Auditing Subcommittee (Spring 2024 – present)
Bobcat Day (Spring 2024 and Fall 2024)
TXST STEM Conference – Teaching and Learning in STEM Symposium (Spring 2025)

- Presentation; "Active Learning Strategies for Large STEM Classes."

PROFESSIONAL

Austin ISD: Austin High School Science Department Chair (2017-2021)

ORGANIZATIONAL MEMBERSHIPS

American Association of Chemistry Teachers
American Chemical Society

V. AWARDS

Awarded the Presidential Distinction for Excellence in Service (2025)
Nominee for Alumni Association Teaching Award of Honor (2025)
Department Nominee for Presidential Award for Excellence in Teaching (2024)