

## TEXAS STATE UNIVERSITY VITA

### I. ACADEMIC/PROFESSIONAL BACKGROUND

#### NAME

Duke Wayne Willoughby

#### TITLE

Assistant Professor of Instruction

#### EDUCATION

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

#### EXPERIENCE

<i>Position</i>	<i>Entity</i>	<i>Dates</i>
Assistant Professor	Texas State University	2024-present
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)

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.

### **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)

General Education Council Member (Spring 2024 - present)

#### **INSTITUTIONAL SERVICE**

Bobcat Day (Spring 2024 and Fall 2024)

#### **PROFESSIONAL**

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

#### **ORGANIZATIONAL MEMBERSHIPS**

American Association of Chemistry Teachers

American Chemical Society