

# Curriculum Vita

## Karl J. Havlak

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This vita is prepared in response to HB 2504, in conformance with THECB Rule 4.227(2).

### Institutions of Higher Education Attended

- Texas Tech University, 1993 – 1996, Ph.D. in Applied Mathematics
- Texas Tech University, 1991 – 1993, M.S. in Mathematics
- Angelo State University, 1987 – 1991, B.S. in Mathematics

### Teaching Positions

- Angelo State University, Professor and Department Chair, 2014 - present
- Angelo State University, Professor, 2012 – 2014
- Angelo State University, Associate Professor, 2006 – 2012
- Angelo State University, Assistant Professor, 2000 – 2006
- Tarleton State University, Assistant Professor, 1996 – 2000
- Texas Tech University, Teaching Assistant, 1992 - 1996

### Scholarly Activities

- Research Interests
  - Mathematical Modeling
  - Mathematical Biology
  - Differential Equations and Numerical Analysis
- Recent Student Research Projects
  - Tressa Reading, *Modeling Insulin-Glucose Levels in the Body*, 2023
  - Thi Thu Huong Vo, *Predator-Prey Models with Random Coefficients*, 2021
  - Mary Jones, *Mathematical Biology*, 2016
- Recent Grant-Funded Activities
  - Received funding from HSI STEM grant to create materials and devise an administrative plan for Peer-Led-Team-Learning activities for MATH 3335, Summer 2023
  - Received FLC Mini Grant to fund proposal entitled: *Better Three-Dimensional Visualizations for Multivariable Calculus*, Fall 2022
  - Served as mentor for Thi Thu Huong Vo on a one-semester Undergraduate Faculty Mentored Grant, Spring 2021
- Recent Conference/Workshop Participation
  - Attended *Peer-Led-Team-Learning International Conference*, Spring 2023
  - Attended an MAA Open-Math Workshop: *Engaging Multivariable Calculus using CalcPlot3D and 3D-Printed Surfaces*, Summer 2023
  - Attended *SIMIODE Mathematical Modeling Expo*, Spring 2021, 2022, 2023
  - Attended the Alpha Chi National Convention, 2010 – 2023
  - Attended the *Model Instructors in Differential Equations Workshop*, Summer 2018

### Selected Service Activities

- Judge for the SIMIODE Challenge Using Differential Equation Modeling, 2022, 2023
- Co-sponsor of the departmental mathematical modeling team
- Head sponsor for the Alpha Chi Honor Society
- Member of Editorial Review Board for *Aletheia* (journal of undergraduate scholarship)
- Administrator for departmental placement exam