

**Deborah Ganus Duke**  
**Professor, Department of Mathematics**  
**Assistant Dean for Preprofessional Programs**  
**Harding University**  
**2024**

**ACADEMIC PREPARATION**

Ed.D., Curriculum and Instruction, Emphasis in Mathematics Education, Memphis State University, Memphis, Tennessee, 1992. Dissertation: Parental Expectation and its Relationship to Achievement in Algebra I.

M.S.E., Mathematics, Harding University, Searcy, Arkansas, 1985. Thesis: A Study of Mathematics Anxiety Among Quantitative Business Analysis Students.

B.S., Mathematics, Harding College, Searcy, Arkansas, 1972.

**PROFESSIONAL EXPERIENCE**

Assistant Dean for Preprofessional Programs, Harding University, Searcy, Arkansas 2011-2024

Professor of Mathematics, Harding University, Searcy, Arkansas, 2006-2024

Chair, Health Science Committee; Premedical Advisor, Prephysician Assistant Advisor, Harding University, Searcy, Arkansas, 1996-2024

Associate Professor of Mathematics, Harding University, Searcy, Arkansas, 1996-2006

Assistant Professor of Mathematics, Harding University, Searcy, Arkansas, 1991-1996

Instructor of Mathematics, Harding University, Searcy, Arkansas, 1982-1990

Mathematics Teacher, Harding Academy, Searcy, Arkansas, 1988-1989

Mathematics and Science Teacher, Bradford High School, Bradford, Arkansas, 1973-1974

Graduate Assistant in Mathematics, Louisiana State University, Baton Rouge, Louisiana, 1972

## **UNIVERSITY TEACHING ASSIGNMENTS**

### Current Courses:

Math 2350, Analytics & Calculus I, 1990-2024, every semester.

Math 3540, Foundations of Geometry, 2003-2024, each year.

PPHS 3670, Internship/Cooperative Education for Preprofessional Health Science Students, as needed.

PPHS 2100, Introduction to Medical Humanities (Team teach with the Medical Humanities Committee), 2018-2024, each year.

PPHS 3970, Topics in Health Sciences, Course Director with Guest Speakers (Vulnerable Populations, Compassion and Empathy, Diversity in Medicine, Rural Medicine and Spirituality, Healthcare and Human Dignity), 2018-2024, each year.

PPHS 4510, Preprofessional Health Science Capstone, 2014, 2018-2024, each year.

### Past Courses:

Math 100, Beginning Algebra

Math 105, Intermediate Algebra

Math 171, Precalculus

Math 151, College Algebra

Math 152, Trigonometry

Math 215, Quantitative Business Analysis

Math 225/525, Mathematics for Elementary Teachers

Math 506, Geometry for graduate students

Physical Science, Everyday Chemistry and Physics

Physical Science, Energy and the Environment

Workshops for Graduate Credit for Elementary and Secondary Mathematics Teachers

## **PROFESSIONAL AND COMMUNITY MEMBERSHIPS**

National Association of Advisors for the Health Professions, 1996-2024

Southeast Association of Advisors for the Health Professions, 1996-2024

Texas Association of Advisors for the Health Professions, 1999-2024

Health Humanities Consortium, 2022-2024

National Council of Teachers of Mathematics, 1982-2024

Past Reviewer for The Mathematics Teacher

Arkansas Council of Teachers of Mathematics, 2010-2024

Mathematical Association of America, Several Years

Alpha Chi, 1971-2024

Phi Kappa Phi Honor Society, 1992-2024

Omicron Delta Kappa, 2006-2024

Women for Harding, Lifetime Member

Mothers of Missionaries, 1999-2012

## **PROFESSIONAL ACTIVITIES**

### MATHEMATICS WORKSHOPS AND PROJECTS

Instructor, Summer, 1992, AEGIS (State of Arkansas) Funded project, Mathematical Modeling for High School Students

Instructor, Summer, 1991, AEGIS (State of Arkansas) Funded project, Mathematical Modeling for High School Students

Instructor, Summer, 1990, AEGIS (State of Arkansas) Funded project, Mathematical Modeling for High School Students

Instructor, June 8, 1990, Eisenhower Math and Science Grant Workshop at Nashville School District, Nashville, Arkansas, Mathematics, 3-8

Instructor, Spring, 1990, Eisenhower Math and Science Grant Workshop, at Brady Elementary School, Little Rock, Arkansas, "Improving Math and Science Instruction--Hands-on Activities"

Instructor, January 11, 1990, Eisenhower Math and Science Grant Workshop at Central Arkansas Christian, Little Rock, Arkansas, "Using Mathematics Software in the Elementary Classroom"

Instructor, August, 1989, Wilbur D. Mills Educational Coop Inservice Workshop, "Hands-On Math," 4-8

Instructor, August, 1989, Wilbur D. Mills Educational Coop Inservice Workshop, "Hands-On Math," K-3

Primary Instructor, July, 1989, Title II, EESA Funded Project, Math 650--Studies in Mathematics, 4-8, Little Rock Commute Program

Primary Instructor, July, 1989, Title II, EESA Funded Project, Math 650--Studies in Mathematics, 4-8, Searcy Residential Program

Instructor, Summer, 1989, AEGIS (State of Arkansas) Funded Project, Mathematical Modeling for High School Students

Instructor, Spring, 1989, EESA--Arkansas Department of Higher Education Math Project, MPT-MAT6 Preparation, Rockefeller School, Little Rock School District

Instructor, Fall, 1988, EESA--Arkansas Department of Higher Education Math Project, Studies in Math, K-8, Little Rock School District

Instructor, August, 1988, Wilbur D. Mills Educational Coop Inservice Workshop, Math for Junior High Teachers

Instructor, August, 1988, Wilbur D. Mills Educational Coop Inservice Workshop, Math for Elementary Teachers

Instructor, Summer, 1988, Title II, EESA Funded Project, Mathematics for Teachers of Gifted and Talented Students

Instructor, Summer, 1988, AEGIS (State of Arkansas) Funded Project, Mathematical Modeling for High School Students

Research Assistant, 1988, EXXON Education Foundation Grant, "Act 1052--The Impact on Higher Education in Arkansas"

## PRESENTATIONS AND PUBLICATIONS

"Finding God's Presence in Every Season." Women's Day, College Church of Christ, Searcy, Arkansas, 2024.

"Innovative Teaching Methods in Mathematics--A Classroom Drama." Christian Scholars Conference, Nashville, Tennessee, 2016.

"Additional Insights into 'Derivative of Area Equals Perimeter Extended,' Reader Reflections, Mathematics Teacher, 108 (3), 164, 2014.

"As for Me and My House." Harding University Lectureship Women's Day Searcy, Arkansas, 2012.

"University of Arkansas for Medical Sciences College of Medicine" section for *Premedical Advisor's Reference Manual, 10th Edition*, National Association of Advisors for the Health Professions, Inc. 2012.

"Why I Love to Teach: Inspiring a Difference. Harding Magazine, 13, 2011.

"Leaving a Living Legacy. Speaker for the 86th Harding University Lectureship. Harding University, Searcy, Arkansas, 2010.

"Missions in the College of Engineering and Sciences," Speaker for Harding University Chapel, September 11, 2007.

"Suggestions for Bringing Up Children," Guest Speaker for Sunday morning class of engaged couples, College Church of Christ, 2004, 2005, 2006.

"A Mother's Trouble—Mentoring," Women in God's Service Annual Meeting, April 4, 2003.

"Giving Our Children to the Lord," Church & Family, 16-19, Summer, 2002.

"Prescription for Supporting Loved Ones on the Mission Field," a panel of Mothers of Missionaries, Harding University Lectureship Women's Day, October 1, 2001.

"Lord, But They are so Far Away!" a panel of Mothers of Missionaries, Harding University Lectureship Women's Day, September 25, 2000.

"Finding Focus with Young Children," Harding University Lectureship Women's Day, September 29, 1998.

"Mothering, 0 – 10," guest speaker for Ladies' Bible Class, College Church of Christ, February 17, 1998.

"Predicting PPST Mathematics Scores from ACT Scores," presented at the Oklahoma/Arkansas Sectional Meeting of the Mathematical Association of America, Arkadelphia, Arkansas, Spring, 1992.

Parental Expectation and its Relationship to Achievement in Algebra I. Doctoral Dissertation. Spring, 1992.

"Take Another Look at Your Students," The Journal of Arkansas Association for Developmental Education, 5 (1), 13-14 (September, 1991).

"Improving Student Attitudes Toward Mathematics," presented at the Arkansas Association for Development Education Fall Conference, North Little Rock, September 28, 1990.

"Predicting PPST Scores from ACT Scores," ERIC Document 322 185, 1990.

"Predicting PPST Scores from ACT Scores," presented at the Arkansas Association of Colleges of Teacher Education Spring Conference, Little Rock, April 5, 1990.

"The Effect of a Simple Package of Treatments on Mathematics Anxiety and Grades," The AMATYC Review, p. 48, Vol. 8, No. 1, September, 1986.

"Predictors of Performance on the Mathematics Test of the Pre-Professional Skills Test," ERIC Tracking Number TMO14827.

A Study of Mathematics Anxiety Among Quantitative Business Analysis Students, Master's Thesis, 1985.

### PROFESSIONAL MEETINGS

#### **National Association of Advisors for the Health Professions**

2018, Washington, DC  
2020, Online (Covid)

#### **Southeast Region of the National Association of Advisors for the Health Professions**

2001, San Antonio  
2003, Lexington  
2005, Nashville  
2007, Little Rock (Served as Moderator)  
2009, Birmingham  
2011, Nashville  
2013, Louisville  
2015, New Orleans  
2017, Charleston, SC  
2019, Memphis  
2021, Online (Covid)

#### **Texas Association of Advisors for the Health Professions**

2002, Lubbock  
2003, Austin  
2004, Dallas (Served as Moderator)  
2005, Fort Worth  
2006, Houston (Served as Moderator)  
2007, San Antonio  
2008, Houston (Served as Moderator)  
2009, College Station (Served as Moderator)  
2011, Galveston

2013, Dallas  
2014, Houston (Baylor)  
2015, Fort Worth  
2016, San Antonio  
2017, Houston  
2020, Galveston  
2021, Online (Covid)

### **MAA Oklahoma/Arkansas Regional Conference**

1994, Searcy (Served on Host Committee)  
2012, Conway  
2014, Searcy  
2016, Conway

### **Health Science Advisors at University of Arkansas for Medical Sciences**

1996-2024

Lecture, "Rhythmic Healing: Music and Medicine," Medicine and Music, NYITCOM-ASU, 2019

Conference at NYITCOM-ASU, 2017

Health Profession Advisors at the University of Mississippi, 2004

Premedical Advisors at Washington University in Saint Louis, 2002

National Council of the Teachers of Mathematics, New Orleans, 2001

Health Profession Advisors at the University of Tennessee, 2000

NCTM SW Regional Conference, Little Rock, (Educational Materials Committee.), 1992

Arkansas Association for Development Education Fall Conference, 1990

Arkansas Council of the Teachers of Mathematics, Several Meetings since 1988

### **SPECIAL PROJECTS**

Moderator for Southeast Association of Advisors for the Health Professions Meeting, 2007

Moderator for Texas Association of Advisors for the Health Professions Meetings, 2004, 2006,

2008, 2009

Arkansas Advisor Contact Person for the Southeast Region of the National Association of  
Advisors for the Health Professions, 2002-2003

Served on Host Committee for MAA Oklahoma/Arkansas Regional Conference, 1994

Served on Educational Materials Committee, NCTM Southwestern Regional Conference, 1992

Assistant for PDK White County Mathematics Contests

Assistant for Regional ACTM Mathematics Contests

Consultant for Mathematics Program at Harding Academy

### **INSTITUTIONAL SERVICES**

Centennial Task Force, 2021-2024

Athletic Academic Appeals Committee, 2020-2024

Faculty Leadership Council, 2019-2020

Admissions Committee, 2019-2023

Faculty Search Committee for the Dean of the College of Sciences, 2019

Work closely with Admissions Office, Recruitment Award, 1997 and 2018

Medical Humanities Committee, 2016-2024, Chair. (We developed a new major and minor and  
coordinated courses for the program.)

Honors Committee, 2016-2023

Advising Committee, 2014-2023

Faculty Welfare Committee, 1995-1997, 2013-2016; Chair, 2015-2016

Pi Day, Campus Wide Pi Day Celebration and Fund Raiser, 2008, 2012, 2016, 2017, 2018, 2022,  
2023

Academic Affairs Committee, 2012-2015

Inauguration Program Committee, 2012-2013



Internship Committee, 2013

Didactic Program in Dietetics Advisory Board, 2011-2014

Liberal Arts Committee, 2005-2009

Physical Therapy Program Investigation Committee, 2008-2009

Pharmacy Program Investigation Committee, 2005-2006

Physician Assistant Program Investigation Committee, 2003-2005

Administrative Council for Teacher Education, 2000-2008

Academic Leaders, 2004-2024

Chair, Health Sciences Committee, Pre-med Advisor, 1996-2024

Institutional Review Board, Secretary, 2000-2008

Library Liaison for Mathematics Department, 1994-2000  
Updated Holdings to MAA Recommendations

Non-traditional Student Committee, 1996-1999

Athletic Committee, 1993-2024

Student Retention Committee, 1992-2008

Search Committee for new Dean of the School of Education, 1998

Harding University in Florence, Fall 1987

Chairman for Annual Harding University in Florence Homecoming Reunion, 1988-1995

Zeta Rho Social Club Sponsor, 2002-2011

Health Science Club Sponsor, 1996-2024

Day of Giving--Augusta, With Health Science Club, 2011-2014

Chair of Committee for Administration of Class of '72 Scholarship, 1997-2024

Major Fundraiser for the new PreProfessional Health Science Center, 2022-2024

## **SERVICE ACTIVITIES**

College Church of Christ

Founder and coordinator of MOMs (Mothers of Missionaries), 1999-2013

Involved with Zambia Medical Missions, 2001-2024

Coordinated 75th Anniversary Celebration of Namwianga Mission, 2008

Help with medical mission team generally every summer

Attend Zambian Board activities

Work with fund raising and publicity

Searcy Appreciation/Day of Outreach, 2002-2005

College Student Home Bible Study Host, College Church of Christ, 1987-1999

PFTA and H.A.N.D.S. Member, Harding Academy, 1986-1998

Active in City League Sports Programs, 1987-1995

Volunteer Staff Member at Camp Tahkodah, 1988, 1990-2000

Participant in Great American Clean-up, Greers Ferry Lake

## **HONORS AND AWARDS**

Teacher Achievement Award, Harding University, 2008, 2018

Recruitment Award, Harding University Admissions Office, 1997, 2018

Harold Alexander Student Success Award, Harding University, 2015

Coons-Farrar Endowed Chair in Biomedical Sciences—5-year appointment, Harding University,  
2000-2005