

# Angela J. Allen

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**EDUCATION:** **Texas A&M University, College Station, TX**  
Master of Science in *Mathematics*, (*Teaching concentration*)  
May 2005, GPR: 3.925

**Texas A&M University, College Station, TX**  
Bachelor of Science in *Applied Mathematical Sciences*, with an *Actuarial Science Option*  
December 2001, GPR: 4.000

## TEACHING EXPERIENCE:

**Instructional Assistant Professor**, Texas A&M University, Department of Mathematics,  
*Fall 2014 – present*

**Senior Lecturer**, Texas A&M University, Department of Mathematics, *Fall 2010 – Summer 2014*

**Lecturer**, Texas A&M University, Department of Mathematics, *Fall 2005 – Summer 2010*

*Duties:* Type guided lecture notes for students, maintain a website for each course with links to pertinent information including a course schedule and online resources, write quizzes and exams, hold regular office hours as well as meet with students by appointment several hours a week outside of office hours, and assign homework via an online homework system.

*Courses Taught:*

- **Math 131 (Mathematical Concepts--Calculus)**  
*Course Description:* Limits and continuity; rates of change, slope; differentiation: the derivative, maxima and minima; integration: the definite and indefinite integral techniques; curve fitting.
- **Math 141 (Business Mathematics I)**  
*Course Description:* Linear equations and applications, systems of linear equations, matrix algebra and applications, linear programming (graphical method), probability and applications, statistics.
- **Math 142 (Business Mathematics II)**  
*Course Description:* Derivatives, curve sketching and optimization, techniques of derivatives, logarithms and exponential functions with applications, integrals, techniques and applications of integrals, multivariate calculus.
- **Math 166 (Topics in Contemporary Mathematics II)**  
*Course Description:* Finite mathematics, matrices, probability and applications.
- **Math 365 (Structure of Mathematics I)**  
*Course Description:* Informal logic, sets, relations, functions, whole numbers, numeration systems, binary operations, integers, elementary number theory, modular systems, rational numbers and the system of real numbers. Designed primarily for elementary teacher certification.

**TEACHING  
EXPERIENCE:**  
(continued)

**Help Session Leader**, Texas A&M University, Department of Mathematics, *Spring 2005*

- Conducted help sessions for Math 323 (formally Math 222) (Linear Algebra I) and Math 220 (Foundations of Mathematics)

*Duties:* Led help sessions three times a week to help students with book homework, lecture notes, or other coursework

**Instructor of Record**, Texas A&M University, Department of Mathematics, *Fall 2004*

- Instructor for Math 142 (Business Mathematics II)

*Duties:* Created and maintained a course website, prepared lectures, wrote quizzes and exams, held regular office hours, and helped students outside of office hours.

**Grader**, Texas A&M University, Department of Mathematics, *Spring 2004 and Summer 2004*

- Grader for Math 151 (Engineering Mathematics I), *Spring 2004*
- Grader for Math 666 (Seminar in Geometry), *Summer 2004*

*Duties:* Graded quizzes, activities, and labs.

**Recitation Leader**, Texas A&M University, Department of Mathematics, *Fall 2003*

- Recitation leader for Math 150 (Functions, Trigonometry, and Linear Systems)

*Duties:* Reviewed lecture notes, book homework, Week-in-Review problems, and administered quizzes.

**DEPARTMENTAL  
SERVICE:**

**Texas A&M University, Department of Mathematics**

- Week-in-Review, Math 142 – conducted reviews once a week that covered the previous week's material for all Math 142 students (weekly problem sets can be found at [http://www.math.tamu.edu/~aallen/142\\_14a\\_wir.html](http://www.math.tamu.edu/~aallen/142_14a_wir.html)), *Spring 2013, Fall 2013, Spring 2014, Spring 2016, Fall 2016, Spring 2017*
- Week-in-Review, Math 131 – conducted reviews once a week that covered the previous week's material for all Math 131 students (weekly problem sets can be found at [http://www.math.tamu.edu/~aallen/131\\_15a\\_WIR.html](http://www.math.tamu.edu/~aallen/131_15a_WIR.html)), *Fall 2008, Spring 2009, Fall 2011, Spring 2015, Fall 2017*
- Course Coordinator, Math 142 – prepared exam shells, reviewed instructors' exams, helped coordinate help session leaders, mentored new graduate student instructors as well as visiting professors, *Spring 2010, Spring 2011, Fall 2015*
- Course Coordinator, Math 131 – prepared exam shells, reviewed instructors' exams, helped coordinate help session leaders, mentored new graduate student instructors as well as visiting professors, *Fall 2008, Spring 2009, Fall 2011, Fall 2014, Spring 2015, Fall 2017*

**DEPARTMENTAL  
SERVICE:**  
(continued)

- Co-authored problem sets for Math 140 / MPE 2 Review (approximately 1000 problems and answers written and typed), *Summer 2017 – present*
- Member of Non-STEM Curriculum Committee (NSCC), *Fall 2016 – present*
- Co-authored algorithmic questions for non-STEM Math Placement Exam (Math 141/142), *Summer 2014, Summer 2015, Summer 2016*
- Created documents to submit to University’s core curriculum committee to request Math 142 continue to be a core curriculum course (included core objectives, foundational component areas, and a sample syllabus), *Spring 2013*
- Member of Math 142 Textbook Committee, *Summer 2012*
- Co-authored Algebra Diagnostic Exam (given to all Math 141 and Math 142 students during the first week of classes the following academic year), *Spring 2007*
- Member of Math 166 Curriculum Committee, *Spring 2007*
- Created Math 141 and Math 142 files for e-Mentoring Project (main website included FAQ’s, Helpful Tips, Formulas, and Practice Problems for each course), *Summer 2006*

**PRESENTATIONS:** *College Math Readiness Quiz, Texas A&M University, Department of Mathematics, April 2009*

- Presented results of Algebra Diagnostic Exam given to Math 141 and Math 142 students during Fall 2008
- Facilitated a discussion among faculty regarding suggested modifications to the exam

*Existence of Derivatives and Their Application to Curve Sketching, Texas A&M University, Department of Mathematics, September 17, 2009*

- Presentation for promotion to Senior Lecturer

*Statistical Analysis of Daily and Monthly GPS Data Based on Predicted, Rapid, and Final Orbits, Lamont-Doherty Earth Observatory of Columbia University, August 4, 1999*

- Presented results of GPS research project at the end of summer internship

**COURSE  
DEVELOPMENT:** **Texas A&M University, Department of Mathematics**

- Participated in Math 142 Technology Project, *Summer 2012 – Spring 2013*
  - Instructed one technology-based section of Math 142 and one “control” section to compare student performance, *Fall 2012, Spring 2013*

**COURSE  
DEVELOPMENT:  
(continued)**

- Incorporated over 15 online applets into the course material for students in the technology section to use as a learning tool for calculus
- Created clicker questions to administer a clicker quiz each class day in the technology section
- Conducted online office hours weekly for the technology section
- Collected, organized, and reported exam data concerning common test questions
  
- Prepared the Fall 2012 course schedule and suggested homework list for new Math 142 textbook, *Summer 2012*
  
- Assisted with conversion of Math 131 online homework to WebAssign, *Spring 2009*
  
- Created and propagated online homework sets in CengageNOW for new Math 131 textbook, *Fall 2008*
  
- Prepared the Fall 2008 course schedule and suggested homework list for new Math 131 textbook based on book committee's notes, *Summer 2008*
  
- Created guided notes for courses, *Spring 2006 – present*
  
- Developed comprehensive website for each course:  
(<http://www.math.tamu.edu/~aallen>), *Fall 2005 – present*
  
- Created streaming videos for quiz and exam solutions (Math 141), *Spring 2006*
  
- Implemented TI-83 calculator applications for all courses, *Fall 2005 – present*

**UNIVERSITY  
SERVICE:**

**Texas A&M University**

- Faculty advisor for student organization that supports and provides awareness for the Texas A&M Paintball Team, *Fall 2013 – Spring 2015*
  - Meet with officers regularly and review upcoming fundraising and volunteer activities
  - Review and process consent and order forms
  
- Fish Camp Namesake, *Spring/Summer 2010*
  - Attended weekly gatherings with counselors and co-chairs, *March – August 2010*
  - Helped coordinate rehearsals and activities to prepare for Fish Camp, *March-August 2010*
  - Attended and actively participated in Fish Camp (Session E Red), Palestine, TX, *August 15-18, 2010*
  - Gave speech to over 130 freshmen at Fish Camp to help ease their transition to Texas A&M University, Palestine, TX, *August 16, 2010*

**UNIVERSITY  
SERVICE:  
(continued)**

- Class Councils – Conversations Program, 2007 – 2008
- Aggie Access Namesake, *Fall 200 – Spring 2008*
  - Aggie Access Namesake Retreat, Bryan, TX, *August 2007*
  - Aggie Access Retreat (with Crawford Community), Bryan, TX, *August 2007*

**HONORS &  
AWARDS:**

**Texas A&M University**

- Honoring Excellence Award, Department of Residence Life, *Spring 2018*
- Texas A&M University System Student Recognition Award for Teaching Excellence (SRATE), *Spring 2011*
- Texas A&M University System Teaching Excellence Award (SLATE), top 5%, *Spring 2010*
- Namesake for Fish Camp 2010, *Spring – Summer 2010*
- Outstanding Teaching Award, Department of Mathematics, *Fall 2009*
- Texas A&M University System Teaching Excellence Award (SLATE), top 5%, *Spring 2009*
- Nomination for Promotion to Senior Lecturer, *Summer 2009*
- The Physician's Centre Hospital Guest Coach Award, presented at Texas A&M men's basketball game, *February 2009*
- Aggie Access Namesake, 2007 – 2008
- Summa Cum Laude, *December 2001*
- Pi Mu Epsilon, National Honorary Mathematics Society, 2000 – present
- Golden Key National Honor Society, 2000 – present
- Phi Kappa Phi, Senior National Honor Society, 2000 – present
- The National Society of Collegiate Scholars, 1999 – present

**RELATED  
EXPERIENCE:**

**Actuarial Analyst, Watson Wyatt Worldwide, Houston, TX, 2002 – 2003**

- Collected and processed employee data
- Produced annual valuations and government forms for defined benefit retirement plans

**RELATED  
EXPERIENCE:**  
(continued)

**Research Intern, Lamont-Doherty Earth Observatory of Columbia University,  
Palisades, NY, Summer 1999**

- Added a global station (LDEO) to the Global Positioning System (GPS)
- Processed GPS observation files using GAMIT analysis software
- Performed a statistical analysis of terrestrial positions generated by various orbital data

**TECHNICAL  
SKILLS:**

**Programming Languages and Software:** HTML, LaTeX, Maple, Microsoft Office, SMART Notebook Software, TI Interactive, Geometer's Sketchpad, GPS software

**Online Homework Systems:** iLrn/ThomsonNow/CengageNOW, WebAssign

**MEMBERSHIP:** American Mathematical Society, 2003 – *present*

**REFERENCES:** Available upon request