

Laura DiMillo Barnes

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TEACHING EXPERIENCE

Senior Lecturer, Mathematics, University of Rhode Island, Kingston, RI, September 2014 to current.

Responsible for teaching multiple sections of Introduction to College Algebra, Applied Pre-Calculus, Pre-Calculus and Calculus. Serves on Arts & Sciences Scholastic Standing and Petitions Committee. Served as Coordinator for Pre-Calculus curriculum. Represents department at State Level Mathematics committees. Created and taught Algebra/Pre-Calculus co-requisite course for Engineering students. Served as coordinator for Pre-Calculus in the High Schools dual enrollment program. Awarded PPM CEMS grant to improve Pre-Calculus learning and Davis grant to research open-source texts. Presented talk on enhanced assignments at January 2017 MAA Conference. Conducted research on Metacognition Intervention. Served on the College of Arts & Sciences Curriculum Committee. Proficient in use of Learning Management Systems such as Sakai, Blackboard, BrightSpace

Adjunct Faculty, Mathematics, Community College of Rhode Island, Warwick, RI, September 2006 to current.

Responsible for teaching Mathematics Emporium (ALEKS), Quantitative Business Analysis, College Algebra, Technical Algebra, Applied Technical Math, Scientific Programming, Business Math, and Math for Liberal Arts to classes of undergraduate students and adult learners. Proficient in use of MyMath Lab and CCRI's version of Blackboard. Participated in curriculum mapping committee. Awarded Teaching Excellence – Adjunct Faculty 2013 – 2014.

Adjunct Faculty, Mathematics, Johnston and Wales University, Providence, RI, September 2013 to May 2014.

Responsible for teaching two sections of Survey of College Mathematics, two sections of Statistics and one section of Algebra. Proficient in use of JWU's version of Blackboard – Ulearn.

Mathematics Specialist, Bryant University, Smithfield, RI, February 2014 to May 2015.

Responsible for individualized instruction through the Academic Center for Excellence in Pre-Calculus, Calculus I, Calculus II and Statistics.

Tutor Doctor, November 2012 to June 2015.

Responsible for individualized instruction to private students taking Algebra, Pre-Calculus and Trigonometry.

Adjunct Faculty, Mathematics, School of Continuing Studies, Roger Williams University, Providence, RI, May 2010 to available.

Responsible for teaching on-line introductory Statistics class using technology such as Web Assign, Cengage, and Blackboard to two sections of continuing and day students.

Adjunct Faculty, Gabelli, School of Business, Roger Williams University, Bristol, RI, January 2008 to available.

Responsible for teaching two sections of Introduction to Spreadsheets. Proficient in use of RWU's version of Blackboard and classroom management technology.

Adjunct Faculty, School of Mathematics, Roger Williams University, Bristol, RI, September 2006 to available.

Responsible for teaching Pre-Calculus to class of twenty-eight undergraduates.

Graduate Teaching Assistant, Departments of Mathematics and Electrical Engineering, Auburn University, Auburn, Alabama.

Dual appointment to both departments with complete responsibility for teaching classes of Algebra, Finite Mathematics, Calculus, Combinational and Sequential Logic Circuits, Basic Plus and WATIV and WATFIV programming courses.

EDUCATION and PROFESSIONAL COURSES

- M.S. Mathematics, Auburn University, Auburn, Alabama
- B.S. Applied Mathematics (with honor), Auburn University, Auburn, Alabama
- National Association of Securities Dealers, Series 7 Investment Professional Training
- Seven Habits of Highly Effective People – Covey Leadership
- Front Line Leadership – Zenger Miller
- Other Business and Financial Services Courses through various professional organizations
- Other Mathematics and Engineering Courses, University of Rhode Island and Brown University
- Accepted into the Applied Mathematics PhD. Program at Brown University
- Enrolled in Providence College Teacher Certification Program – fundamental courses completed

AFFILIATIONS AND SPECIAL HONORS

- Project Management Institute
- National Investment Company Service Association
- Rhode Island State Science Fair, Judge, Awards Coordinator
- Armed Forces Communications and Electronic Association, President, Rhode Island Chapter
- Distinguished Young AFCEAN of the Year
- American Association of University Women
- Pi Mu Epsilon, mathematics honorary
- Phi Kappa Phi, scholastic honorary
- Life Member, Auburn University Alumni Association

MAJOR REPORTS, PUBLICATIONS and PRESENTATIONS

- ‘Class Assignments as an Enhancement to Online Homework’, presentation, Mathematical Association of America / American Mathematical Society annual meeting
- ‘Modifications to Support Student Success’, presentation, Gartner Annual Gateway Course Experience Conference
- ‘Enterprise Architecture’, report and presentation, Cutter Associates
- ‘Data Management Strategy’, report and presentation, Cutter Associates
- ‘Data Warehouse Products and Practices, report and presentation, Cutter Associates
- ‘Modeling in the Naval Warfare Gaming System’, abstract and presentation, Computer Sciences Corporation
- ‘Command and Control Data Base Specification’, classified, Georgia Tech, B06917
- ‘Integrated Communications Jamming Analysis Model Program’, co-author, classified, Georgia Tech Research Institute
- ‘The Differential Geometry of Curved Spacetime’, Master’s Thesis, Auburn University
- ‘Software Fault Tolerance and Architecture Reliability in Distributed Data Processing Systems’, contributor, AU-EE-79-0025, Auburn University