

Marilena Downing, M.A.
Instructor (Teaching/Instructional)
Mathematics
College of Science and Technology
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Curriculum Vitae

Academic Background

A.B.D. Temple University, Philadelphia, PA, Mathematics, 2008; GPA 3.98
M.A. Temple University, Philadelphia, PA, Mathematics, 2005
B.A. Temple University, Philadelphia, PA, Mathematics, 2001; GPA 4.00
A.S. Delaware County Community College, Media, PA, Natural Science, 1999, GPA: 4.00
A.S. Delaware County Community College, Media, PA, Business Administration (Accounting Option), 1999
Other: University of Pennsylvania, Philadelphia, PA, Concentration in Accounting, 1981

Professional Memberships

Golden Key National Honor Society
Phi Theta Kappa

Work Experience

Academic

Assistant Professor (Teaching/Instructional) - Mathematics, Temple University (July 2016 - Present).
Tutor Coordinator - MCC, Mathematics, Temple University (September 2016 - Present)
Instructor (Teaching/Instructional) - Mathematics, Temple University (June 2006 - July 2016).
Coordinator: Math 1022 Precalculus, Temple University (September, 2004 - August, 2012, Summer 2013-2015).
Coordinator: Math 1021 College Algebra, Temple University (September, 2006 - August, 2007).
Tutor Coordinator - MSRC, Temple University (June, 2005 - August, 2006).
Adjunct Instructor & Teaching Assistant, Temple University (September, 2001 - May, 2006).
Supervisor/Tutor, Math & Science Resource Center, Temple University (October, 1999 - September, 2003).
Instructor: Student Support Services - Bridge Program Mathematics, Temple University (July, 2002-August, 2002).

Teaching

Courses Taught

Math 1021 College Algebra	Honors College Math
Math 1022 Precalculus	Honors Elements of Math Thought
Math 1038 Calculus I with Lab	Math 2031 Probability & Statistics
Math 1041 Calculus I	Math 2101 (147 Old) Linear Algebra
Math 1042 Calculus II	Math 2196 Basic Concepts of Math
Math 1044 Intro to Probability and Statistics for Life Sciences	Math 3041 Differential Equations I
	Math 3096 Introduction to Modern Algebra

Teaching Activities

CAT Canvas Academy – August 2018

International Educator's Academy – Spring 2018

Course Development – Math 1038, Calculus I with Lab (Fall 2015)

- Inaugural Instructor of this course, whose purpose is to help students with weaker backgrounds in Precalculus to pass Calculus I. Involved with the TA in designing one of the recitation components.

Inclusive Teaching with Technology Circle - Teaching and Learning Center (Fall 2014/Spring 2015)

- Exploring new ways to introduce technology into the classroom, including online supplementary support.
- Exploring Universal Design for inclusive education.

Technology Fellow Program (Spring 2015)

- Met weekly with a Tech Fellow to develop strategies on incorporating technology in the classroom.

Course Development – large lecture of Math 1041 (Fall 2012 - Spring 2015)

- Commenced teaching Calculus I in a large lecture hall format in the 2012/2013 academic year; trained and supervised Teaching Assistants and Course Assistants;

Coordinator of Math 1022 (2007 to 2013; Summer 2014 and 2015)

- In 2014, added review homework problems with answer keys to each section of the Math 1022 notes to help students with retention.
- Trained the new Math 1022 coordinator for the 2012/2013 academic year, supplying her with all the materials needed to coordinate the course, including course notes, homework, review materials, and old exams.
- Design the course Blackboard Organization, course syllabus, the list of homework problems, the tests and the final, the reviews with answer keys for the tests and the final, and grading guidelines for the instructors.
- Supervise instruction through meetings and e-mails while maintaining the records of all scores and oversee assignment and submission of grades.
- 2009/2011 - Wrote online notes, exercises, answer key, chapter summaries and chapter tests for Math 1022 to replace any textbook. Created a general Math 1022 BB organization to support this new structure.
- 2007/2008 - Selected a new textbook and revamped the syllabus and homework list to adapt to the new book, along with online homework.

2006/2007 - Coordinator of Math 1021. Developed the more demanding course that evolved into the one currently used. Put together the course syllabus, the course web page, the list of homework problems, the tests and the final, the reviews with answer keys for the tests and the final, and grading guidelines for the instructors. At the end of the year, trained the current coordinator to prepare her to run this course, supplying templates for the course webpage, syllabus, and tests.

Service

Service to Mathematics Department

- 2016-present: Math TA and CA Consulting Center - hiring undergraduate tutors and CAs; scheduling of TAs, CAs, and undergraduate tutors; record keeping.
- 2008-2012: Coordination of Record Keeping for Math 1021, 1022, 1041, 1042, 2043

Service to Temple University

- 2014-2017: Pre-Professional Health Studies Evaluation Committee - conducted interviews to assess students' strengths as applicants to health professional schools.
- 2008-2009: Development of Practice Tests for the Math Placement Test for Temple University using MyMathTest: Developed a tutorial to prepare students for the Math Placement Test using MyMathTest by selecting questions from a test bank to create eight online practice tests corresponding to Math 0701, Math 0702, Math 1021, and Math 1022.

Service to the Community

- 2014-present: Philabundance - Volunteer in warehouse to package donated food for the needy.
- 1998: Delaware County Tutoring Center – Volunteer.
- 1997: Delaware County Literacy Council.

Honors/Awards

- 2011: CST Award for Distinguished Teaching in a discipline by a non tenure-track faculty member.
- 2005: TA Graduate Teaching Award for CST.
- 2002: Future Faculty Fellowship - Ph.D. Program in Mathematics.
- 2001: Phyllis Zayon Steinberg Award in Mathematics, Temple University.
- 2000: Outstanding Achievement Scholarship, Temple University.
- 1999: Academic Achievement Awards in Mathematics & Music - DCCC.
- 1999: Academic Excellence Award - DCCC.
- 1998: GE Elfun Scholarship for Volunteerism.