

# Cathy Evins

## EDUCATION

M.A. Mathematics Education, DePaul University, Chicago IL <i>Summa Cum Laude</i>	2005
M.S. Community Counseling, Georgia State University, Atlanta, GA <i>Magna Cum Laude</i>	1995
B.S. Psychology, Duke University, Durham, NC Minor in Women's Studies	1991

## TEACHING POSITIONS AND COURSES TAUGHT

### Roosevelt University

Lecturer, Mathematics and Actuarial Science

Co-Coordinator of Developmental and General Education Mathematics

Chicago, IL

Fall 2009-present

### **MATH 110 Quantitative Literacy\*\*/MATH 110 Quantitative Literacy Online Hybrid\*\***

Course provides a mathematical foundation for students to become confident and critical users of quantitative information of all kinds: numerical, graphical, and verbal. Students analyze real, up-to-date data on a variety of social issues to make and critique quantitative arguments. Course focuses on application of mathematical skills and concepts to solve real world problems. Topics include proportional reasoning, linear and exponential models, and financial mathematics. The online hybrid section was specifically for adult students in the College of Professional Studies Flex-Track program's 8 week session.

### **MATH 121 College Algebra\*\***

Course strengthens algebraic skills to prepare for future math, science, computer science, and business courses. Taught in a flipped format with real data, Chicago-focused questions. Topics include: Algebraic operations, equations and inequalities, graphs and functions, polynomial functions, exponential and logarithmic functions.

### **MATH 217 Introduction to Probability and Statistics for Honors Program\*\***

Course applies statistical techniques to problems in the social sciences and business. Topics include: Elementary probability and probability distributions, random variables, expectation and variance, normal probability and binomial distributions. Applications to estimation, confidence intervals, statistical testing of hypotheses, two-sample techniques, correlation, and least squares regression. Honors students completed and presented two real data analysis projects.

### **MATH 095 Developmental Math\*\*/ MATH 096 Developmental Math for College Algebra\*\***

Course is self-paced with individualized assistance that covers the fundamentals of arithmetic and algebra: Calculations with whole numbers, fractions and decimals; Proportional reasoning, Measurement; Geometry; Statistics; Writing, solving, and graphing linear equations and systems of linear equations; Solving Quadratic and Rational equations. The focus is on concepts, skills, and abilities needed for success in subsequent math courses.

### **UNIV 110 Bridge to RU\*\***

Course taught by myself and English Composition instructor as part of the Trio/Project Prime Summer Bridge Enrichment Program. Course objectives are: To understand and identify academic, social, emotional and financial resources available at Roosevelt; to reflect on the experiences of Summer Bridge and how they relate to success in the first year of college; to analyze personal strengths, weaknesses and opportunities as a first-year college student; and to create an Action Plan for the first year at Roosevelt.

### **ACP 101 First Year Seminar**

Reading, writing and discussion assignments introduce students to academic ways of creating knowledge within a social justice-oriented learning environment. Learning activities inside and outside the classroom help first-year students strengthen their academic skills, engage in our campus, explore their goals, and develop supportive relationships with classmates.

### **MATH 099 Introductory Algebra**

An introduction to algebra, including polynomial expressions, coordinate systems and graphing, solving linear equation in one and two variables and representing them graphically, solving simultaneous equations, and applied problems.

### **MATH 100 Applied Intermediate Algebra/ MATH 101 Intermediate Algebra\*\***

Course covers algebraic formulas, percentages and proportional reasoning; linear equations; systems of linear equations; linear inequalities; graphing of linear equations and inequalities; exponents, polynomials and quadratic equations; and factoring. The course focuses on the application of algebraic concepts and the use of the algebra for problem solving in context-based word problems.

\*\*courses I was involved in developing or redesigning

### **DePaul University**

*Instructor*, Quantitative Reasoning Program

*Adjunct Instructor*, Quantitative Reasoning Program

### **Chicago, IL**

Fall 2003-Summer 2009

Fall 2001-Summer 2003

### **ISP 120 Quantitative Reasoning/LSP 120 Quantitative Reasoning and Technological Literacy I**

This course provides a mathematical foundation for students to be confident and critical users of quantitative information. Data from the Statistical Abstract of the US and other sources are used throughout the course and for a data analysis paper and presentation. The course is taught in a computer lab with extensive use of Excel. Topics include absolute and relative quantities, percentages and rates, graph making and interpretation, linear and exponential models, and finance (consumer price index, inflation, savings accounts, loans, and credit cards).

### **ISP 120 Quantitative Reasoning for Bridge Program**

The Bridge Program is a residential five-week summer program for students who are provisionally accepted to DePaul University. Extensive support services are provided to the students in and out of the classroom.

### **HON 180 Data Analysis and Statistics**

This course develops and applies quantitative and statistical reasoning skills in order to understand, interpret, critique and challenge quantitative arguments, emphasizing the use of real-world and student generated data. Students use Excel to generate, analyze and summarize data. Topics include the nature and description of data; probability, sampling, variability, confidence intervals, correlation, hypothesis testing, and experiment design.

### **ISP 110 Algebra for Applications**

This course focuses on verbal, numerical, symbolic, and graphical representations of functions to model and analyze real-world situations. Topics include definition of function, linear functions, exponential functions, power functions, and scientific notation.

### **ISP 121 Mathematical and Technological Literacy II**

This course teaches more advanced mathematical and computational methods for the analysis and interpretation of quantitative information and data. The course is taught in a computer lab where students are introduced to advanced computer tools for data analysis, including spreadsheets and databases. Topics include databases, descriptive statistics, correlation, applied probability theory, logarithms, and risk and relative risk.

**Positions held:**

**GRE and GMAT Instructor Trainer**

Led training for potential new GRE and GMAT instructors. Taught test content, test taking strategies, and Princeton Review curriculum, pedagogy, and teaching style in 40 hour training. Observed and provided feedback and critiques of teaching scenarios and consulted on hiring decisions. Explained course operations and standards.

**GMAT and GRE course Instructor and Premier tutor**

Taught content (quantitative, verbal, and essays) and test taking strategies for computerized adaptive tests in classroom and one on one setting. Analyze score reports, assess progress, and provide detailed feedback to students.

**SAT II Math Level 2 Premier Tutor**

Taught content (arithmetic, algebra, trigonometry, functions, logic, probability, combinations, and permutations) and test taking strategies.

**SAT course Instructor and Tutor**

Taught content (quantitative and verbal) and test taking strategies for standardized tests in classroom and one on one setting.

**SES Trainer**

Led training for potential new Supplemental Educations Services tutors for the Chicago Public School System as part of No Child Left Behind Act. Training tutors on SideStreets curriculum and effective teaching and classroom management strategies.

**Private Tutor**

**Chicago, IL / Atlanta, GA**  
1995-present

Provide one-on-one tutoring for middle school and high school students in subjects ranging from Arithmetic to AP Calculus

**SCHOLARLY PRESENTATIONS**

“Studying Student Experience to Improve Institutional Practice”

Concurrent Session on Research, National Resource Center’s Annual Conference on The First-Year Experience, Atlanta, GA, February 2017

“College Algebra: Modeling the City”

Talk with Mary Williams, Chicago Symposium Series, Excellence in Teaching Mathematics and Science: Research and Practice, Chicago, IL, February 2017

“Engaging Mathematics: Creating a National Community of Practice”

MAA Poster Session on Projects Supported by the NSF Division of Undergraduate Education, Joint Mathematics Meeting, Atlanta, GA, January 2017

“It Takes a Village to Build a Bridge”

Talk with Amanda Wornhoff, Illinois Learning Specialists and Developmental Educators’ Defining Point A: Best Practices in Assessing College and Career Readiness, Bloomington, IL, April 2016

“Using City Specific Data in Your College Algebra Class”

Talk, ICTCM International Conference on Technology in Collegiate Mathematics, Atlanta, GA, March 2016

“At-Risk Academic Impacts: Studying Bridge and Nonbridge Student Experience”

Poster session with Amanda Wornhoff, National Resource Center’s Annual Conference on The First-Year Experience, Orlando, FL, February 2016

“Mathematics and Civic Engagement: Modeling Chicago Homicide Data in College Algebra”

Plenary follow-up work session with Barbara Gonzalez, SENCER Summer Institute, Worcester Polytechnic Institute, Worcester, MA, August 2015

“Mathematics and Civic Engagement: Modeling Arctic Sea Ice Data for Algebra”

Plenary follow-up work session, Midwest SENCER Symposium, Northeastern Illinois University, Chicago, IL, March 2015

"SENCER Mathematics Across the Curriculum"

Work session with Cindy Kaus, Anthony Dunlop, Victor Padron, Cathy Evins, Lynn Gieger, John Nardo, John Zobitz, Frank Wattenberg and Mangala Kothari; SENCER Summer Institute, University of North Carolina, Asheville, NC, August 2014.

"Engaging Mathematics at Roosevelt University, College Algebra: Modeling the City"

Poster session with Barbara Gonzalez, SENCER Summer Institute, University of North Carolina, Asheville, NC, August 2014.

“Building Bridges: Reimagining Campus Practice to Impact Student Success”

Talk with Amanda Wornhoff and Andrea Egle, DIVERSITY, LEARNING, AND STUDENT SUCCESS: Policy, Practice, Privilege, Network for Academic Renewal Conference, AACU, Chicago, IL, March 2014

"SENCERizing the Mathematics Curriculum at Roosevelt University"

Poster session with Barbara Gonzalez and Melanie Pivarski, Washington Symposium and Capitol Hill Poster Session, Washington, DC, March 2013.

“Roosevelt's Math PReP: Placement and Remediation with MyMathTest”

Talk, Pearson’s Changing Times, Changing Students, Bloomington, MN April 2012

“Roosevelt's Math PReP: Placement and Remediation with MyMathTest”

Talk with Mary Williams, ICTCM International Conference on Technology in Collegiate Mathematics, Orlando, March 2012

“Math PReP: Placement Reassessment Program and Redesign of Developmental Math”

Talk with Mary Williams, RUMCOT: Roosevelt University Mini-Conference on Teaching, Roosevelt University, April 2012

“Developmental Math Redesign”

Talk with Mary Williams, Roosevelt Mathematics Colloquium, March 2012

“Roosevelt University’s Math Placement Assessment Program (Math PRep)”

Media Contribution, Making the Grade: How to improve your MyMathLab implementation through personalization and Best practice” publication by Pearson Publishing, January 2011

## **CONFERENCE AND WORKSHOP PARTICIPATION**

- Chair of ICTCM International Conference on Technology in Collegiate Mathematics, March 2017
- SENCER Science Education for New Civic Engagement, Summer Institute August 2010, 2011, 2014, 2015, 2016
- SENCER Midwest Regional Symposium: November 2012, March 2014, March 2015, October 2015,
- Chicago Symposium Series, Excellence in Teaching Mathematics and Science: Research and Practice, Chicago, IL 2011, 2012, 2014, 2015, 2016, 2017
- ILSADE Illinois Learning Specialists and Developmental Educators' Defining Point A: Best Practices in Assessing College and Career Readiness, April 2016
- National Resource Center's Annual Conference on The First-Year Experience, February 2016, February 2017
- AAC&U Association of American Colleges and Universities, Network for Academic Renewal Conference, Diversity, Learning, And Student Success: Policy, Practice, Privilege, March 2014
- AAC&U Institute on High-Impact Practices and Student Success, June 2015
- Illinois State Mathematical Association of America Sectional Meeting, Roosevelt University, April 2013
- ICTCM International Conference on Technology in Collegiate Mathematics, 2010, 2012, 2015, 2016, 2017
- Conference Chair, ICTCM International Conference on Technology in Collegiate Mathematics, 2017
- Roosevelt University Mini-Conference on Teaching, Roosevelt University, April 2012, 2013, 2016
- Speaking about Course Redesign Workshop, Pearson VUE, April and March 2012
- 6th Annual Hoosier Math Conference, Pearson Publishing, Indianapolis, IN, September 2011
- Windy City Math Meeting, Pearson VUE, February 2011, February 2017
- SENCER Cutting Edge Course Design workshop, Chicago, IL, March 2010

## **ROOSEVELT UNIVERSITY SERVICE**

- Co-Coordinator Developmental and General Education Math courses
- Co-Coordinator Developmental Math redesign and implementation
- Interim Assistant Department Chair, Spring and Summer 2013
- General Education Faculty Leadership Team & Leader of Pedagogy Subgroup
- General Education Committee member
- Undergraduate Council member
- Co-Coordinator of Math PReP (Placement Reassignment Program)
- Instructor Summer Bridge Enrichment Program and First Wave Summer Program
- Co-Coordinator First Wave Summer Program
- Co-Organizer of Math Faculty Beginning of the Semester Meeting
- Co-Organizer of Cookies, Coffee, and Conversation
- Math Department Liaison to Advising Center
- Faculty Advisor Math Department Tutoring
- First Year Task Force member
- Foundations of Excellence Learning dimension member

- Faculty Advisor for Math x-position, every Fall semester
- Math faculty representative for Prospective Student Visit Day
- Math Department Assessment for the University Accreditation report contributor
- Search committee member for faculty members
- Academic Success Center Advisory Board member
- Enrollment Network member

### **GRANTS**

**Partner Faculty, National Science Foundation (NSF) Grant: Engaging Mathematics.** Roosevelt University, Chicago, IL. 2014-2017 (\$550,000 total/\$9600 per institution per year)

### **HONORS**

The Allen P. Collard Dedicated Service Award from Student Support Services/Project Prime April 2014

### **PROFESSIONAL MEMBERSHIPS**

The Mathematical Association of America

The Mathematical Association of America- SIGMAA QL

Pearson's Math and Statistics Digital Advisory Board