

Nancy Crook Marcus

Vitae

Education

- 1975 New Mexico State University (NMSU); Ph.D.
1970 University of Texas at El Paso, M.S.
1965 Texas Western College, B.S

Academic Appointments

- 2008 – Current Professor in the Department of Mathematics, Associate Dean for Academic Programs and Student Success in the College of Science, The University of Texas at El Paso (UTEP)
2004 – 2008 Associate Professor in the Department of Mathematics, Associate Dean in the College of Science, The University of Texas at El Paso (UTEP)
2000-2004 Associate Professor in the Department of Mathematics, Assistant Dean in the College of Science, The University of Texas at El Paso (UTEP)
1995-2000 Assistant Professor in the Department of Mathematical Sciences, The University of Texas at El Paso (UTEP)
1994-1995 Full-time Lecturer in the Department of Mathematical Sciences, (UTEP)
1991-1994 Full-time Senior Lecturer in the Department of Mathematical Sciences, (UTEP)
1976-1994 Full-time Lecturer, Instructor, and Visiting Professor in the Department of Mathematical Sciences, (UTEP).

Papers, Presentations, and Publications:

- Chapter: Nancy Marcus and Sally Andrade, *Assessment of Student Learning in College Mathematics: Toward Improved Programs and Courses*; Chapter 10, “Ensuring Learning in a Gateway Mathematics Course through Assessment: Student-Centered, Cost-Effective, and Successful,” Association for Institution Research, in press 2006.
- Presentation: *Online Calculus* - IOL Conference, University of Texas at San Antonio, May 2011
Modular Mathematics – Northern Arizona University, march 2010
TNE’s impact on education at UTEP at Mathfest-MAA in Madison, Wisconsin, July 30 – August 3, 2008.
Integrated Biology at Howard Hughes Medical Institute, July 21 – 24, 2008 with Stephen Aley – Integrated Biology.
Modular Mathematics Programs for Marginal Students at The South Dakota School of Mines in 2008.
Facilitating Collaborations Between Arts and Science Faculty, Teachers for a New Era Conference in New Orleans, 2008.
Engaging Arts and Science Faculty in the Renewal of Teacher Preparation at The University of Texas at El Paso, National Network for Educational Renewal Conference in Cincinnati in 2006 with Joann Bogart and Howard Daudistel.
Modular Math, Polytechnical Institute, Brooklyn, New York – April 2004

- Modular Math, LaGuardia Community College, New York, New York – April 2004
- Paper and Presentation: “Math on the Web,” ICTCM Conference in Orlando, Florida – November 2002.
“S.O.S. Mathematics: Helping Student on the Internet,” CAST 2002 at UTEP
- Workshop: Conducted a Modular Precalculus Workshop at South Texas Community College in McAllen, Texas in August of 2002, by invitation. The school adopted our modular precalculus program.
- Attended the GradPortal Workshop at the University of South Carolina in Columbia, South Carolina in October 2002. The dean’s workshop was to design a method to increase the amount of funded research for undergraduates.
- Paper and Presentation: “Modular Precalculus: Creating and Evaluating an Innovative Program,” presented at The International Conference on First-Year College Experience in Hawaii, May 2001
- Work in Progress: S.O.S. Mathematics "Converting Word Problems to a System of Linear Equations and Solving by Several Methods - 2000
- Article: "Modular Calculus, Clustering, and Reform Mathematics", Winter 1998 issue of Focus on Calculus newsletter, published by John Wiley and Co.
- Paper and Presentation: "Modular Precalculus and Clustering: Evolution and Implementation" presented at the November 1998 meeting of the American Mathematical Society Meeting in Tucson, Arizona.
- Paper and Presentation: "Modular Precalculus and Learning Communities" presented June 1999 at the Puerto Rican AMP conference in Baton Rouge, Louisiana.
- Paper and Presentation: "Learning Communities in Science, Engineering and Mathematics: Creating and Sustaining Curricular Innovation at the University of Texas at El Paso" presented May 1999 at the Transforming Campuses Through Learning Communities: The Annual Conference of the Washington Center for Improving the Quality of Undergraduate Education and the FIPSE Learning Communities Dissemination Project 1996-1999 in Seattle, Washington. I was part of the Leadership Team that presented paper.
- Article: "S.O.S Mathematics: Students Review Mathematical Concepts on the Internet written by Nancy Marcus, Helmut Knaust, and Amine Khamsi and published in "The Proceedings of the Eleventh International Conference on Collegiate Mathematics," Addison Wesley, 1998.
- UTEP Manual: MIE Cluster Manual 1997, edited by Nancy Marcus, Walter Fisher, and Elaine Fredricksen.
- Paper and Presentation: "An Evolving Cluster Program: Connecting Students and Faculty Through Interdisciplinary Collaborations in Science, Engineering, Mathematics, and English written by Nancy Marcus, Elaine Fredricksen, Walter Fisher, and Connie Kubo Della-Piana" presented at the Inclusive and Interdisciplinary Conference sponsored by the University of Southern Maine in Portland, Maine 1996.
- Paper and Presentation: "Precalculus Reform: Evolution of the Cluster Design" presented at the Connections and Community Conference in Frankenmuth, Michigan November 1996 and sponsored by Delta College.
- News Articles: Modular Precalculus 1993 - 2000

Book: "Fractions for Adults" Ginn Press, 1987 - Royalties to the Department of Mathematical Sciences.

Test Bank: Problem Solving Text and Test Bank to accompany Intermediate Algebra, Second Edition, by Keedy-Bittinger; Addison-Wesley Publishing Company, 1986 - Royalties to the Department of Mathematical Sciences

Synergistic Activities:

- Innovation in Teaching and Training: Developed Modular PreCalculus and Modular Calculus at the University of Texas at El Paso and increased the pass rate and success in subsequent courses dramatically.
- Co-director of SOSMath.COM, a free internet tutorial site that takes students from fractions through differential equations. The site has received numerous national and international awards.
- In development, an iPhone (iTouch) delivered calculus course.

RESEARCH-RELATED PROPOSALS, GRANTS AND CONTRACTS (INDICATE IF FUNDED, PENDING, OR NOT FUNDED)

- Obtained funding from numerous agencies for peer facilitators for the Math 1508/1411 modular programs 1994-2006.
- Co-PI on THCEB grant for Texas Course Redesign Project: Phase III, Mathematics 1320/1324 and Mathematics 0120/0124, A collaboration of UT El Paso and El Paso Community College \$440,500, 2007, pre-proposal accepted.
- Co-PI on ONR grant Future Navy Research Programs for UTEP and E{CC for Science, Technology, Engineering, and Mathematics (STEM) majors, \$400,000, 2006. Not funded.
- PI on Harvard Consortium grant for the Modular Calculus Dissemination Grant – 2004. Not funded. Submitted again in 2005. Not funded.
- Co-Pi on NSF grant entitled Collaborative Research Instituting Cooperative Strategies Supporting STEM Education submitted jointed with the College of Engineering in 2004. Not funded. Resubmitted in 2005. Not funded.
- Co-PI on US Department of Education MSEIP grant \$300,000, 2005. Funded.
- Co-Pi on a STEP grant submitted to NSF – 2005 – not funded
- Submitted a Modular Calculus Grant proposal to the Harvard Consortium – 2005 –not funded.

Honors:

2003: Minnie Piper Stevens Award for Distinguished Teaching

1998: Chancellor's Council Award for Distinguished Teaching

1994-Present: Many awards for the SOSMATH website created with Helmut Knaust and Mohamed Khamsi.