

Teaching Vita

Sandra Spiroff

Graduate Level:

University of Mississippi

- Master's Level Algebra: Math 625-626
- Reading courses in Advanced Linear Algebra and Homological Algebra

University of Nebraska-Lincoln

- Developed and team taught an algebra course in the IMMERSE program

University of Utah, Salt Lake City

- Presented four talks in the Mini Course "Classical Problems in Commutative Algebra": *Cohen-Macaulay Rings*, *Injective Modules and Gorenstein Rings*, *Auslander-Buchsbaum Formula*, *Chow Groups*
- Organized, and presented in, the Commutative Algebra Seminar

University Educational Experience:

University of Mississippi

- Linear Algebra, Calculus I & II, Advanced Calculus I & II
- Trigonometry (May session)

Seattle University, Seattle

- Implemented and maintained the WeBWorK computer homework program
- Calculus II, Abstract Algebra II

University of Illinois at Champaign-Urbana

- Mathematics Teaching Award
- Employed alternative teaching strategies in the *Calculus & Mathematica*, Active Learning, and Merit Workshop sequences; www-cm.math.uiuc.edu, www.math.uiuc.edu/Bourbaki/Teaching/ActiveLearning.pdf, and www.math.uiuc.edu/MeritWorkshop, respectively
- Business, Intermediate, and College Algebras, Calculus I & II

University of Utah, Salt Lake City

- Highest ranking as Calculus instructor Spring 2004
- Guided an independent study student in an REU program (Research Experience for Undergraduates) under the VIGRE grant (Vertical Integration of Research and Education)
- Used the WeBWorK computer homework program
- Business Algebra, Business Calculus, Calculus I, Abstract Algebra

High School Educational Experience:

Normandy School District, St. Louis

- Co-developed an alternative education program designed for students at least one year behind their academic peers
- Interned during summers within the community, for example (1) in the Diversity Department of the USPS in the City of St. Louis, and (2) in the Human Resources Department of the Regal Riverfront Hotel
- Algebra I & II, Basic Math, Geometry, Math Analysis, and Calculus

University of Illinois at Champaign-Urbana

- Served as Research Assistant on a collaborative project between Danville High School and the education and mathematics departments of the University of Illinois to improve teacher preparation; see www.ed.uiuc.edu/meter

University of Utah, Salt Lake City

- Gave several presentations in the Math Circle program, engaging Utah high school students with strong mathematical interests and abilities in advanced topics

Computer Experience: C, Macaulay 2, Maple, Mathematica, Python, WeBWorK