

SHEILA K. BRINTNALL, PH. D.

Professor of Mathematics
Northwestern Oklahoma State University
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Education:

Ph. D. in Instructional Leadership and Academic Curriculum,
May 2002 University of Oklahoma; Norman, Oklahoma
Emphasis: Mathematics Education Major Advisor: Dr. M. Jayne Fleener
Dissertation: E-mentoring: A Case Study of the Viability and
Benefits of Electronic Mentoring with Beginning Teachers in Rural Schools

Master of Science in Mathematics, December 1992
Oklahoma State University; Stillwater, Oklahoma
Component: "Calculators in the Mathematics Classroom"
Major: Pure Mathematics

Bachelor of Science (Educ.), May 1988 Summa Cum Laude
Northwestern Oklahoma State University; Alva, Oklahoma
Major: Mathematics
Minor: Computer Science

Bachelor of Arts (Educ.), May 1988 Summa Cum Laude
Northwestern Oklahoma State University; Alva, Oklahoma
Major: English

Teaching

Northwestern Oklahoma State University (1/93 - present)
Mathematics Teacher Education Coordinator Fall 2003 – present
Full-time Fall 1995 – present
Adjunct January 1993 - May 1995
Alva Independent School District #1 (8/93 - 5/95)
Full-time Mathematics Teacher / Student Council Sponsor
Oklahoma State University (8/89 - 5/92)
Graduate Teaching Assistant

Certification:

Mathematics, Computer Studies, and English; grades 7-12; Oklahoma (7/1/88-6/30/09)

Received the AAUW Educational Development Award in 2006

Duties and Responsibilities

Teach 24 hours per year
Advise students & supervise student teachers and resident teachers
Maintain Oklahoma Teacher Certification
Teach arranged courses as needed by graduating seniors
Review teacher education student portfolios
Participate in entrance interviews for admission to teacher education program
Participate in exit interviews at conclusion of teacher education program
Participate in department meetings and activities
Participate in committee meetings and activities
Prepare Mathematics Program Review
Prepare for NCATE Accreditation Visit
Complete 15 hours of professional development per year
Complete 10 hours of public school service per year

Courses Taught at NWOSU

MATH 0013 Pre-Intermediate Algebra
MATH 0123 Intermediate Algebra
MATH 1313 Statistics (Non-majors)
MATH 1513 College Algebra
MATH 1523 Finite Math
MATH 1613 College Trigonometry
MATH 2215 Calculus I
MATH 2315 Calculus II
MATH 2533 Calculus for Business
MATH 3023 Theory of Numbers
MATH 3053 Discrete Math
MATH 3323 Multivariable Calculus
MATH 3353 Intro. to Modern Algebra
MATH 3513 College Geometry
MATH 4333 History of Mathematics
MATH 4442 Teaching Secondary Math
MATH 4203 Differential Equations
CMSC 1003 Introduction to Computing

Sample Student Comments

Very patient with students asking questions. And took the time to answer them.
(Trigonometry, 2004)

Mrs. Brintnall is very helpful during class and even when you are out of class. You can ask for help at any time and she's interested in you getting the problems found. (College Algebra, 2004)

Dr. Brintnall is an awesome instructor. She explains the content well and is very willing to help the students. She wants the students to succeed. She is great! (History of Math, 2006)

She is fun and enthusiastic. She is easy to talk to and likes for you to ask questions. Dr. Brintnall doesn't make you feel stupid. She is awesome. (Calculus I, 2007)

She is fair in how she grades and also how she treats her students. (Calc I, 2007)

Dr. Brintnall did a great job teaching this course. She is concerned about her students not just getting through the syllabus, but more importantly she cares that we all understand the material. (Multivariable Calculus, 2008)

- Grants: ConocoPhillips sponsored Math and Science Academy (2010)
"NWOSU Rendezvous"
Collaboration with Tim Maharry, Dena Walker, Steve Maier
"Math Camp" for elementary students
- ConocoPhillips sponsored Summer Academy (2004 - 2009)
"Mathematics Technology: An Applications Paradigm"
Collaboration with Billy Stewart and Tim Maharry
Week long residential "Math Camp" for high school students
- Board of Regents sponsored Summer Academy (1999 – 2003)
"Mathematics Technology: An Applications Paradigm"
Collaboration with Billy Stewart and Tim Maharry
Week long residential "Math Camp" for high school students
- Professional Development Grant Spring 2008
AAUW sponsored Workshops by Rhonda Mikels
"Rekindling that Passion & Enlarging Your Vision" &
"Multicultural Diversity"
- Professional Development Grant Spring 2010
Co-sponsored by Math Dept and Educ Dept
SMART Board Training, provided workshop for area teachers
- Organizational Memberships: National Council of Teachers of Mathematics (NCTM)
Oklahoma Council of Teachers of Mathematics (OCTM)
Mathematics Association of America (MAA)
American Association of University Women (AAUW)
Kiwanis International – Board Member
Delta Kappa Gamma – CoPresident (2008-2010)
- Presentations: Assessment Day Presentation with Dena Walker
"Get Your Game On" – Smartboard Usage – Spring 2010
- Women and Mathematics – Delphi (Kiowa, KS,2005) – AAUW 2003
- BEST Award Presentation for BEST Pre-season Workshop
& Kickoff - Fall 2008
- Delta Kappa Gamma – NWOSU Outreach Presentation - Fall 2008
- Invited speaker, "Technology in Education Research";
Education Technology Class; University of Oklahoma; Fall 2000
Joint presentation with Dr. M. Jayne Fleener, "Time Series Analysis
of Classroom Dialogues"; Research Council on Mathematics Learning;
College Park, MD; February 1998

Departmental Activities:

- Pilot Supplemental Instruction in 0013 Pre-Int Algebra Fall 2010
- Piloted/developed Online College Algebra Spring 2005
- Director of Academic Systems implementation Spring 2002-2003
- Wrote NCATE Program Review of Mathematics Education Program
- Participated in revision of four year cycle of mathematics courses
- Participated in development of Contemporary Math Class
- Participated in development of Math Department exit examination
- Participated in revision of course syllabi for NCATE visit
- Provide individualized instruction for at risk students

University Wide Activities:

- Faculty Senate Member (2008-2010)
- NCATE Site Visit Interview Committees
- Project HOPE
- E-portfolio seminars
- Heartland BEST Robotics Competition Committee Member
- Curriculum Contest Test Administrator (1994-present)
- New Faculty Member Mentor (2004-2006)
- Freshman Connection Academic Advisor
- Speech Tournament Judge Invitational & Regional (2003-present)
- Science Fair Judge (1996, 2003-present)
- Judged FFA Speech Contest Spring 2010

Committee Memberships:

- Member Teacher Education Faculty (2003 – present)
- Member Teacher Education Council (2004 –2010)
- Honors Committee (2002-present) – Chair (2004 – present)
- Assessment Committee (2004 – 2010)
- Marketing Committee (2004)
- General Education Committee (2004 –2008)
- Academic Affairs Appeals Committee (2000-2004)
- Library Committee (1997-2000)
- Division Scholarship Committee (1996-98)

Math Club Sponsor (1998 - present):

- Arranged for Speakers to Celebrate Mathematics Awareness Month Activities
 - Homecoming Sheet Contest – First Place Fall 2005, 2006, 2010
 - Pixar Animation Lecture at UCO Fall 2009
 - Homecoming Booth on Square
 - Tour of Vance Air Force Base
 - Beginning and End of Year Picnics
 - Ranger Perk Table Painting Contest
 - Annual Bowling Competition with Chemistry Club

Class Sponsor (1997-present):

- Current Senior Class Co-Sponsor (2010-2011)
- Coordinator of Senior Class Picture Project (2002)
- Coordinator of Senior Class Centennial Project (1998)
 - Tiling of the fountain in front of the library in collaboration with NWOSU Foundation

Community Service:

- Taught Trigonometry at AHS while Brit Gregory recuperated from surgery
- Supervise Student Teachers and Resident Teachers in Public Schools

Member American Association of University Women

- Past President (2003-05, 2007-09)
- Donate books to underprivileged children
- Award \$400 scholarship to NWOSU female student
- Women's Recognition Dinner & Ceremony
- Political Forum – Fall 2004 & 2008
- Sponsor family for Christmas
- Participate in Alva Christmas Craft Show
- Host Soup for Scholarships

Member First United Methodist Church Alva, Oklahoma

- Mission Trip to Mexico Spring Break 2010
- Teach College Sunday School Class
- Choir member
- UMW member
- Christmas musicals / Spring Melodramas
- Peanut brittle fund raiser
- VBS – Circle G Ranch, Lift off with Jesus, Beach-attitudes
- President, Wesley Foundation Board

Member Kiwanis International – joined July 2005

- Board Member
- Help with Little Olympics
- Snow Cones for Bill Johnson Correctional Facility
- Keep Gate at Football Game
- Trash Pick-up

Teaching Style/Philosophy

The driving premises of my philosophy of teaching are “Every student can learn” and “Any subject can be mastered if enough energy is exerted.” I believe that the student must be committed to the experience for learning to take place. I do not believe that a teacher can force a student to learn material in which s/he has no investment so another important role of the teacher is that of motivator.

My teaching style is predominately lecture; however, I try to incorporate group learning activities and discovery approaches when possible. I feel that students can learn a great deal from each other. Sometimes a student needs to hear an explanation in his/her language. I like to have the students work in groups when we are covering difficult material. In my upper level classes, I have students work problems/proofs on the board. Incorporating the student into the teaching process has benefits for him/her, as well as, the students listening to the presentation. To be able to explain an idea to someone else one must fully grasp the concept him/herself. My teaching philosophy and style require the teacher and the student to be partners in the learning process.

Technology in its many forms influences my teaching style and helps to keep it fresh and growing. New last year to the Mathematics' Department was a SMART Board. I was privileged to be able to use it for my Calculus I course. I found that I was challenged to present the material in a slightly different manner and that the students were able to delve deeper into the meat of the course. I also incorporate graphing calculators and mathematics software programs into the classroom. I encourage the students to see the power of the technology, learn the limitations of it, and understand the necessity of learning the mathematical processes for themselves.