

**MA602 Syllabus
Spring 2019
North Carolina State University**

Instructor: Dr. Brenda Burns-Williams

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Office Hours: By Appointment

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Description: *Teaching in the Math Department (MA 602)* is a 1-semester 1 credit-hour course for graduate students who are or who anticipate teaching in the Mathematics Department. This seminar will introduce students to best practices of effective teaching in college mathematics courses. The students will be exposed to the theory of learning as well as strategies to deliver content, effective assessment and classroom management. The seminar will culminate in a portfolio containing a syllabus template, sample test, lesson plan, classroom management action plan, and reflections on experiential activities.

Student Responsibilities and Rights: Students are responsible for reviewing the PRRs which pertain to their course rights and responsibilities. These include: <http://policies.ncsu.edu/policy/pol-04-25-05> (Equal Opportunity and Non-Discrimination Policy Statement), <http://oied.ncsu.edu/oied/policies.php> (Office for Institutional Equity and Diversity), <http://policies.ncsu.edu/policy/pol-11-35-01> (Code of Student Conduct), and <http://policies.ncsu.edu/regulation/reg-02-50-03> (Grades and Grade Point Average).

Text: The class will use scholarly papers and web-based case studies.

Student Learning Outcomes: By the end of the course the students will be able to:

1. Plan a lecture at the beginning undergraduate level in Mathematics and deliver it in the allotted time.
2. Communicate basic mathematical concepts at the level of Calculus I and II to non-mathematical college students
3. Accurately and effectively assess the learning outcome of their students through quizzes, tests and exams.
4. Use technology in the classroom (for example Maple) so as to enhance and contextualize the learning experience of their students.
5. Demonstrate knowledge of the various responsibilities of an instructor at the college level.

Grading policy: The course grade will be determined as follows:

Oral Presentations	40%
Participation	10%
Portfolio	50%

Missed assignments will count as a 0 unless the absence is excused. If the absence is excused according to the University guidelines, then an appropriate alternate assignment will be assigned. Late submissions of assignments will result in 10% penalty for each day late.

This course is for credit only. S = 70% and up, U = below 70%.

Attendance: You are expected to attend all classes and outside activities on time.

DISABILITY SERVICES:

"Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with the Disability Services Office at Suite 2221, Student Health Center, Campus Box 7509, 919-515-7653. For more information on NC State's policy on working with students with disabilities, please see the Academic Accommodations for Students with Disabilities Regulation (REG 02.20.01).

Proposed Schedule

Week	Topic
1	Classroom Norms
2	Developing a Syllabus
3	Classroom Management
4	Theory of Student Learning
5	Theory of Student Learning
6	Group Work in the Math Classroom
7	Active Learning and Inquiry-Based Learning
8	Active Learning and Inquiry-Based Learning
9	Micro-teaching Experience
10	Micro-teaching Experience
11	Dealing With Student Issues
12	Gathering and Using Student Feedback
13	Gathering and Using Student Feedback
14	Assessment
15	Assessment
16	Submit Portfolio