



BROWARD COLLEGE COURSE OUTLINE

Last Review: 2008-09

Next Review: 2013-14

Status: A

COURSE TITLE: Methods of Teaching Math in Elementary School

COMMON COURSE NUMBER: MAE 4310

CREDIT HOURS: 3

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS:
(Voc. Course ONLY)

Lecture:	Lab:
Clinic:	Other: 15

PREREQUISITE(S):

COREQUISITE(S):

PRE/COREQUISITE(S):

COURSE DESCRIPTION *(750 characters, maximum):*

This course introduces conceptually and developmentally appropriate mathematics content based on the five content areas identified by the Florida Sunshine State Standards. These are Numeration & Number Sense, Geometry, Measurement, Algebraic Thinking, and Data Analysis & Probability. Within these content areas, preprofessional educators will learn techniques consistent with the national process standards and research-based procedural strategies. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required for teacher certification. Fifteen hours of field placement are required.

General Education Requirements – Associate of Arts Degree (AA), meets Area(s):	Area
General Education Requirements – Associate in Science Degree (AS), meets Area(s):	Area
General Education Requirements – Associate in Applied Science Degree (AAS), meets Area(s):	Area

UNIT TITLES

- 1. Professional Competencies and Standards**
- 2. Number Sense and Operations**
- 3. Mathematical Measurement**
- 4. Geometry and Spatial Sense**
- 5. Algebraic Thinking**
- 6. Data Analysis And Probability**
- 7. Instruction and Assessment**
- 8. Number Sense and Operations**
- 9. Theoretical Models of Cognitive Development**
- 10. Accommodating Diverse Learners**

EVALUATION:

Please provide a brief description (250 characters maximum) that details how students will be evaluated on the course outcomes.

Final grade will be based on course requirements, and examinations. The graded activities may reflect both alternative and traditional assessments.

Class discussions and interactions,

Group projects

Oral presentations,

Clinical experiences and reflective papers, field journals, and discussions about them,

Portfolios

Exams

Videotaping of student teaching a lesson with feedback from instructor and students

**** Complete the following only if course is seeking general education status ****

GENERAL EDUCATION Competencies and Skills *:

Please highlight in green font all Competencies/Skills from the list below that apply to this course. In the box to the right of the Competency/Skill, enter all specific learning outcome numbers (i.e. 1.1, 2.7, 5.12) that apply.

** General Education Competencies and Skills endorsed by '05-'06 General Education Task Force*

1. Read with critical comprehension	NA
2. Speak and listen effectively	NA
3. Write clearly and coherently	NA
4. Think creatively, logically, critically, and reflectively (analyze, synthesize, apply, and evaluate)	NA
5. Demonstrate and apply literacy in its various forms: (highlight in green ALL that apply) (1. technological, 2. informational, 3. mathematical, 4. scientific, 5. cultural, 6. historical, 7. aesthetic and/or 8. environmental)	NA
6. Apply problem solving techniques to real-world experiences	NA
7. Apply methods of scientific inquiry	NA
8. Demonstrate an understanding of the physical and biological environment and how it is impacted by human beings	NA
9. Demonstrate an understanding of and appreciation for human diversities and commonalities	NA
10. Collaborate with others to achieve common goals.	NA
11. Research, synthesize and produce original work	NA
12. Practice ethical behavior	NA
13. Demonstrate self-direction and self motivation	NA



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14. Assume responsibility for and understand the impact of personal behaviors on self and society	NA
15. Contribute to the welfare of the community	NA