

EDUC 308 MATH STRATEGIES 4-6

Credit Hours: 3

Scheduled hours per week

Lecture: 3

Lab: 0

Field Experience: 20 hours

Catalog Course Description: Methods and content with respect to algebraic thinking, number and operations in base ten, fractions, measurement and data, and geometry in grades 4-6.

Pre-requisites: EDUC 304, and Admission to Teacher Ed Program

Co-requisites: 20 hr. Field Experience

Course Learning Outcomes (CLO):

1. Students will plan 4th-6th grade mathematics lessons utilizing state standards. (*Assessment: field placement lesson plans, written assignment*)
2. Students will teach 4th-6th grade mathematics lessons utilizing state standards and a variety of instructional strategies. (*Assessment: field placement lesson plans, teaching demonstrations*)
3. Students will utilize differentiated instruction techniques during mathematics instruction. (*Assessment: field placement lesson plans, written assignments, teaching demonstrations*)
4. Students will create a 4th-6th grade mathematics assessment plan based on instructional objectives. (*Assessment: field placement lesson plans, written assignments, teaching demonstrations*)
5. Students will identify instructional strategies, including integrating technology, needed to effectively engage students in 4th-6th grade mathematics lessons. (*Assessment: field placement lesson plans, written assignments, exam*)
6. Students will demonstrate content knowledge of 4th-6th grade mathematics standards. (*Assessment: Khan Academy assignments, exam*)

CLO Assessment Methods: Field Experience Lessons, Written Assignments, Exam, Teaching Demonstrations, Khan Academy Assignments

Topics to be studied:

1. NCTM Principles and Standards
2. 4th-6th grade WVCCR math standards
3. Differentiated instruction and techniques
4. Mathematical instructional strategies
5. Mathematics assessment strategies
6. Classroom management as it applies to the mathematics classroom
7. Math discourse
8. Number Talks
9. Math technology tools
10. Lesson planning

Relationship of Course to Program Learning Outcomes (PLO) or Institutional Learning Outcomes:

This course develops opportunities for the teacher candidates to increase their understanding of the intermediate mathematics setting, instructional strategies, and content. The teaching experiences enable them to demonstrate commitment to the profession and to practice the skills of planning, teaching, personal interactions, integration of cultural diversity, reflection, and decision-making for the enactment of that commitment.

PLO Assessment Methods: Lesson Planning Assessment, Post-Admission Field Experience Evaluation

Check if approved as: ☐ Foundational Learning Course ☐ Reinforcement Learning Course

Special requirements of the course:

1. Submit collection of 4th-6th grade math lesson plans to LiveText
2. Complete field experience requirements including teaching lesson plans and Number Talks
3. Submit field experience paperwork
4. Submit school-based educator's evaluation of field experience placement
5. Have current LiveText subscription and use Blackboard for the course requirements
6. Have current background check

Additional information:

N/A

Updated by: Stephanie Stopiak

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