NOVA SOUTHEASTERN UNIVERSITY

ELEMENTARY MATH SPECIALIZATION

EDU5000 Master's Program Orientation

This orientation to university resources provides an overview of all the tools available for students enrolled in a Nova Southeastern University advanced degree program. You will receive training on the course management system, the electronic library, and online research tools. There is no additional fee for this course and completion of the course is required for graduation.

EDUC610 Classroom and Instructional Management *(6 credit hours)*

Instructional Strand 1: Active Learning: Theory into Practice

Instructional Strand 2: Classroom Management

Energize your teaching and motivate your students. Learn instructional concepts and teaching techniques that will help you manage today's interactive classroom. Develop proactive management strategies such as conflict resolution and peer mediation to increase on-task behavior and promote active learning. Challenge your students by designing engaging lessons to meet their social and academic needs.

EDUC620 Instruction and Assessment for Diverse Classrooms *(6 credit hours)*

Instructional Strand 1: Integrated Assessment for Standards-Based Curricula

Instructional Strand 2: Instructional Strategies for the Inclusive Classroom

Examine the impact of federal, state, and local regulations and policies on inclusive educational programs. Learn how to integrate curriculum, instruction, and assessment to meet the diverse needs of your students. Develop a repertoire of assessment strategies to evaluate your students' learning and growth utilizing standardized tests, teacher-created tests, portfolio assessment, and performance tasks.

EDUC670 Teaching and Assessing Mathematics through Technology *(6 credit hours)*

Instructional Strand 1: Elementary Mathematics Methods and Strategies for Assessment

Instructional Strand 2: Computer Applications and Technology for Teaching Mathematics

Technology can be a powerful tool for teaching math, even to the most reluctant student. You will have the opportunity to reflect on your current math instruction and learn new strategies for enhancing concept development and computation, including the application of technology. Learn new techniques for teaching basic math skills and diagnosing skill level development.

EDUC671 Action Research in Practice—Math* *(6 credit hours)*

Instructional Strand 1: Professional Inquiry: Teacher as Researcher

Instructional Strand 2: Reflective Practice through the Portfolio Process

Experience the art and science of action research while you develop the tools of reflective inquiry and collaborative practice. You will engage in analysis of current classroom issues and challenges related to math to explore and practice action research methods as a logical extension of classroom instruction. Integral to this process will be the development of an Action Research Project focused on a math topic and the creation of a cumulative professional portfolio that demonstrates your professional growth.

** Participants initiate an Action Research Project. Conferral of degree is contingent on successful completion of the Action Research Project and the Professional Portfolio in the fifth block.*

EDUC672 Best Practices for Teaching Mathematics Across the Curriculum *(6 credit hours)*

Instructional Strand 1: Brain-Compatible Strategies for the Mathematics Classroom

Instructional Strand 2: Integrating Mathematics throughout the Curriculum

Develop instructional activities in math that inspire learning in all students. Using research-based best practices, learn how to encourage logical-mathematical thinking and integrate math across your curriculum. Explore the connection of course content to learning standards. Learn how to blend brain-compatible teaching techniques and thematic teaching with your daily math instruction.