

SOUTHERN UNIVERSITY AND A&M COLLEGE
 BATON ROUGE, LOUISIANA
 THE GRADUATE SCHOOL
 COLLEGE OF SCIENCES AND ENGINEERING
 DOCTORAL PROGRAM IN SCIENCE/MATHEMATICS EDUCATION

PLAN OF STUDY

Name of Student: _____ Banner ID#: _____

Admission Date: (Semester & Year) _____ E-mail Address: _____

Departmental Advisor: _____ Date: _____

MASTER'S DEGREE OR EQUIVALENT (24 hours Min.)

Master's Degree University: _____

Major: _____ Graduation Date: _____

(24) GRADUATE CREDITS FOR MASTER'S EQUIVALENT

Course No.	Title	University	Credits	Grade	Semester	Year

PRACTICUM (for students without teaching experience and/or credentials) 3-6 credit hours

Course No.	Title	Credits	Grade	Semester	Year	Instructor
SMED 735*	Practicum in Mathematics Teaching at the Elementary, Secondary or College Levels	3				
SMED 736*	Practicum in Science Teaching at the Elementary, Secondary or College Levels	3				

*Updated by Dr. Nastassia N. Jones on April 28, 2020

REQUIRED CORE COURSES (30 credit hours minimum)

Course No.	Title	Credits	Grade	Semester	Year	Instructor
FOUNDATIONS 6 credits total						
SMED 702	Cognitive Foundations of Learning Science/Math	3				
SMED 705 or SMED 710	Foundations of Science/Mathematics Education	3				
	History and Structure of Science and Math	3				
RESEARCH 15 credits total						
SMED 739	Applied Statistics	3				
*SMED 740	Quantitative Research in Science/Mathematics Education	3				
SMED 741	Qualitative Research in Science/Mathematics Education	3				
*SMED 743	Science/Mathematics Research Design	3				
*SMED 750 or SMED 755	Advanced Quantitative Methods in Science/Mathematics Education Research	3				
	Advanced Qualitative Methods in Science/Mathematics Education Research	3				
CURRICULUM 6 credits total						
SMED 716	Science/Mathematics Curriculum II (Secondary)	3				
SMED 715 or SMED 717	Science/Mathematics Curriculum I (Elementary)	3				
	Science/Mathematics Curriculum III (College)	3				
TECHNOLOGY 3 credits total						
SMED 720	Technology in Science/Mathematics Education	3				

OPEN ELECTIVES (9 credit hours minimum at the graduate level, while enrolled in the doctoral program)

Course No.	Title	Credits	Grade	Semester	Year	Instructor
SMED 701	Developmental Psychology and Science/Mathematics Education	3				
SMED 721	Design in Science/Mathematics Education: Instruction and Outcome Assessment	3				
SMED 722	Instructional Design and Multimedia Technology	3				
SMED 725	Critical Thinking in the Sciences and Mathematics	3				
SMED 726	Evolution and Science Education	3				
SMED 732	Topics in Number Theory	3				
SMED 737	Practicum with Emphasis on Writing for Publication	3				
SMED 760	Informal Science Education	3				
SMED 770	Special Topics in Science/Mathematics Education (you can take this course more than one time)	3				

Course No.	Title	Credits	Grade	Semester	Year	Instructor
SMED 780	Research in Mathematics Education	3				
SMED 790*	Independent Study in Science Education	3				
SMED 791*	Independent Study in Mathematics Education	3				

RESEARCH/DISSERTATION (12 credit hours minimum)

Course No.	Title	Credits	Grade	Semester	Year	Instructor
SMED 798*	Doctoral Qualifying Examination	0				
SMED 799*	Advanced Research	3-15				
SMED 800*	Dissertation Research	3-15				

**denotes courses with prerequisites or enrollment by instructor permission only* please refer to the graduate catalog for detailed course descriptions and prerequisite information.*

MINIMUM COURSEWORK REQUIREMENTS

Total hours beyond master's degree: 36 hours + dissertation = 48 credit hours
 (without teaching experience): 36 hours + dissertation + 3 hours practicum = 51 credit hours

Total hours beyond bachelor's degree: 60 hours + dissertation = 72 credit hours
 (without teaching experience): 60 hours + dissertation + 3 hours practicum = 75 credit hours

Student's Signature: _____ **Date:** _____

Department Advisor Signature: _____ **Date:** _____

Department Chair Signature: _____ **Date:** _____