

Mathematics & Science Concentration College of Education Department of Instruction and Teacher Education

Catalog Year: 2016-2017

This course plan is a recommended sequence for this major. Courses designated as critical (!) may have a deadline for completion and/or affect time to graduation. Please see the Program Notes section for details regarding "critical courses" for this particular Program of Study.

Program N	otes section for details regarding "critical courses" for this partic	ular Prog	gram of S	Major			
Critical	Course Subject and Title			GPA <sup>2</sup>	Code	Prerequisites	Notes
Semeste	er One (15 Credit Hours)					1	
	ENGL 101 Critical Reading and Composition	3	С		CC-CMW		
	MATH 122 Calculus for Bus. Admin. & Soc. Sciences	3			CC-ARP	MATH 122: MATH 111/111I;	
	or MATH 141 Calculus I <sup>3</sup>					MATH 141: MATH 112, 115,	
						116; or Math placement test score	
	Carolina Core AIU Requirement <sup>4</sup>	3			CC-AIU	•	
	Carolina Core GHS Course <sup>4</sup>	3			CC-GHS		
	Elective (UNIV 101 The Student in the University)	3			PR/CC (GFL)		
	or Carolina Core Requirement <sup>4</sup> (and/or Foreign language <sup>5</sup> )				, , ,		
Semeste	er Two (16 Credit Hours)						
	ENGL 102 Rhetoric and Composition	3	С		CC-CMW/INF		
	STAT 201 Elementary Statistics	3			CC-ARP	MATH 111, 115, or STAT 110	
	Carolina Core GSS Req.4 (and/ or Foreign language <sup>5</sup> )	3			CC-GSS (GFL)	, , , , , ,	
	Carolina Core SCI Requirement <sup>4</sup>	4			CC-SCI		
	EDTE 201 Issues & Trends in Teaching & Learning	3	С	*	MR		
Progress	ion: Prepare for and take Praxis Core exams if SAT or AC			ore not			
	er Three (16-19 Credit Hours)	JI IIIIII	illulli se	core not	inet		
oc.meste	EDTE 400 Learning Through Community Service	1	С	*	MR		
<b>—</b>	EDFI 300 Schools in Communities	3	C	*	MR		
	Mathematics Content Course <sup>7</sup>	3-4		<u> </u>	MR	See listing in Bulletin.	
-	Science Content Course <sup>7</sup>	3-4		1	MR	See listing in Bulletin. See listing in Bulletin.	
						see iisting in <u>bulletin</u> .	
	Carolina Core SCI Requirement <sup>4</sup>	3-4			CC-SCI		
D	Carolina Core CMS/VSR Requirement <sup>4</sup>	3			CC-CMS/VSR		
	ion: Take and pass the EEDA Assessment on Blackboard	1					
Semeste	er Four (15-17 Credit Hours)	_			3.50		
	EDPY 401 Learners and the Diversity of Learning	3	С	*	MR		
	Mathematics Content Course <sup>7</sup>	3-4			MR	See listing in <u>Bulletin</u> .	
	Mathematics Content Course <sup>7</sup>	3			MR	See listing in <u>Bulletin</u> .	
	Science Content Course <sup>7</sup>	3-4			MR	See listing in Bulletin.	
	Additional Carolina Core-Approved SCI	3			PR		
	sion: Apply for Professional Program (all requirements fo	r Profes	ssional I	Program	must be met by	deadline prior to sixth semester)	
Semeste	er Five (15-17 Credit Hours)						
!	EDML 470 Foundations in Reading	3	С	*	MR		
	Mathematics Content Course <sup>7</sup>	3			MR	See listing in <u>Bulletin</u> .	
	Mathematics Content Course <sup>7</sup>	3			MR	See listing in <u>Bulletin</u> .	
	Science Content Course <sup>7</sup>	3-4			MR	See listing in Bulletin.	
	Science Content Course <sup>7</sup>	3-4			MR	See listing in Bulletin.	
Semeste	er Six (17-19 Credit Hours)						
!	EDEX 491 Intro. to Inclusion of Stud. w/ Mild	2	С	*	MR	Adm. to Professional Program	
	Disabilities					_	
!	EDML 471 Mid. Lev. Content Area Read. & Writ.	3	С	*	MR	Adm. to Professional Program	
!	EDML 321 Middle Level Teaching & Management	3	С	*	MR	Adm. to Professional Program	
	Mathematics Content Course <sup>7</sup>	3			MR	See listing in Bulletin.	
	Science Content Course <sup>7</sup>	3-4			MR	See listing in Bulletin.	
	Science Content Course <sup>7</sup>	3-4			MR	See listing in Bulletin.	
Progress	ion: Apply for Internship and SC Teacher Licensure (incl		ngerprii	nting)		0	
	er Seven (14 Credit Hours)		U F	<i>O</i> /			
!	EDML 598 Internship A in the Middle School <sup>8</sup>	3	В	*	MR	Admission to Internship A	
!	EDTE 522 Integr. Curriculum at the Middle Level	3	С	*	MR	Admission to Internship A	
!	EDRM 423 Introduction to Classroom Assessment	2	C	*	MR	Admission to Internship A	
!	EDML 583 Methods & Materials for Teaching	3	C	*	MR	Admission to Internship A	
	Math. in the Middle Grades		~				
!	EDML 553 Methods & Materials for Teaching	3	С	*	MR	Admission to Internship A	
	Science in the Middle Grades	3			WIK	rumsion to memsing r	
Progress	ion: Take required Praxis Certification exams during senio	or vear	I	I	<u> </u>		
	er Eight (15 Credit Hours)	or year					
	EDML 599 Internship B in the Middle School <sup>9</sup>	12	С	*	MR	Admission to Internship B	
•	EDITE 577 Internally D in the winding action?	14			CC-INT	Admission to internsing D	
!	EDML 584 Middle School Internship Seminar	3	С	*	MR	Admission to Internship B	
<u> </u>	DITE 307 MIGUIC SCHOOL IIICHISHIP SCHIIIAF	J			1411/	ramission to intensinp D	

**Graduation Requirements Summary** 

Minimum Total Hours	Major Requirements Hours	College & Program Requirements Hours	Carolina Core Hours <sup>3 &amp; 5</sup>	Minimum Overall GPA
123	86	3-6	31-34	2.75

- 1. Regardless of individual course grades, students must maintain a minimum 2.75 cumulative overall GPA.
- Some colleges require a minimum GPA for major courses. Courses indicated in this column are included in the major GPA for this program of study. A 3.0 GPA must be achieved in all education courses.
- 3. Students who do not place into MATH 122 or 141 will be required to take the required prerequisite before proceeding with MATH 122 or 141.
- 4. The <u>Carolina Core</u> provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students. Although students may take up to 43 hours to meet all Carolina Core requirements, students in the Middle Level Education program must complete two Carolina Core approved "overlay-eligible" courses in order to graduate on time and avoid summer courses or taking more than five courses in some semesters.
- 5. The Carolina Core requires either two approved courses in one Foreign Language or a score of two or higher on the foreign language placement test. If a student in the Middle Level Education program is not exempted from the foreign language requirement through the foreign language placement test, additional courses may be required to meet all Carolina Core components.
- 6. Information for the Praxis Core exam can be found on the College of Education, Office of Student Services website.

7. Content Courses (36-38 hours)

Mathematics Content Requirements (18-20 hours):	Science Content Requirements (18-23 hours):
MATH 603 – Inquiry Approach to Algebra (3)	Two courses (6-8 hours) in Life Science from the following: BIOL 200 &
or MATH 142 – Calculus II (4) –if not used for Carolina Core Requirement	BIOL 200L (4); BIOL 206 (3); BIOL 232 (3); BIOL 270* & BIOL 270L
MATH 602 – An Inductive Approach to Geometry (3)	(4); SMED 587 (3)
or MATH 531 – Foundations of Geometry (3)	
MATH 401 – Conceptual History of Mathematics (3)	Two courses (6-8 hours) in Physical Science from the following: PHYS
or MATH 241 – Vector Calculus (3)	201 & PHYS 201L (4); PHYS 202 & PHYS 202L (4); PHYS 153 & PHYS
Select 3 courses from: MATH 141 (if not used for Carolina Core requirement);	153L (4); PHYS 155 (3); CHEM 102 (4); CHEM 105 (4); CHEM 111 &
MATH 142 (if not used above); MATH 241 (if not used above); MATH 170	CHEM 111L (4); SMED 586 (3)
or MATH 174 (if not used for Carolina Core Requirement); MATH 511;	Two courses (6-8 hours) in Earth Science from the following: GEOL 302
MATH 544; MATH 546; MATH 574; MATH 580; STAT 506; STAT	(4); GEOL 205* (3); MSCI 210 (3); GEOL 215 (3); GEOL 230 (3); GEOL
515; STAT 516	250 (3); SMED 588 (3)

Note: Courses used to fulfill Carolina Core requirements may not also be used to fulfill major content courses.

\*If GEOL 103 was used to meet the Carolina Core SCI requirement, neither BIOL 270 or GEOL 205 may be used to fulfill major content courses.

- 8. For admission into EDML 598 Internship A in the Middle School, a candidate must: 1) be admitted to the professional program; 2) complete with a grade of C or better EDEX 491, EDML 321, EDML 470, and EDML 471; 3) achieve a GPA of 3.00 or higher in all education course work; & 4) comply with criminal background check and health screening requirements.
- 9. For admission to EDML 599 Internship B in the Middle School, a candidate must: 1) complete EDML 598 with a grade of B or better; 2) complete with a grade of C or better EDTE 522, the two EDML Methods courses, and EDRM 423; & 3) complete four of the six courses in each of the two content areas.

## **Program Notes:**

- Courses designated as "critical" (!) must be taken in the semester in which they are listed.
- Upon completion of 60 hours of course work, including the completion of the 11-semester-hour education core (EDTE 201, EDFI 300, EDTE 400, and EDPY 401), the candidate may apply for admission to the Professional Education Program in Middle Level Education. For admission requirements to the Professional Program, please visit the Bulletin.
- Students in the Department of Instruction and Teacher Education will be allowed to repeat one time only, one course offered through a department in the College of Education for which an unsatisfactory grade was earned. If after the first unsatisfactory grade, a student makes an unsatisfactory grade in the repeated course or any other College of Education course, he/she will no longer be eligible to progress in the program.
- All initial teacher licensure programs in the College of Education require extensive field experiences in P-12 schools. All students must read and understand the rules and expectations outlined in the Preservice Teacher Education Clinical Experiences Manual. Prior to participating in school field experiences, students must have been cleared through a criminal background check and must have a negative test for TB on file with the College of Education.

University Requirements: Bachelor's degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the <u>Carolina Core</u> page on the University website.

Codes:					
CC	Carolina Core		Carolina Core – Information Literacy		
CC-AIU	Carolina Core-Aesthetic and Interpretive Understanding	CC-INT	Carolina Core – Integrative Course		
CC-ARP	Carolina Core-Analytical Reasoning and Problem-Solving	CC-SCI	Carolina Core – Scientific Literacy		
CC-CMS	Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component	CC-VSR	Carolina Core - Values, Ethics, and Social Responsibility		
CC-CMW	Effective, Engaged, and Persuasive Communication: Written Component	CR	College Requirement		
CC-GFL	Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language	MR	Major Requirement		
CC-GHS	Carolina Core – Historical Thinking	PR	Program Requirement		
CC-GSS	Carolina Core – Social Sciences				

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.