## Secondary Math Education/Mathematics (Education Track) Double Major

Name:						
General E	ducation Requirements					
Fun	damental Studies					
Requirements:	uirements: Course					
Academic Writing (AW)	ENGL 101					
Professional Writing (PW)		3				
Oral Comm. (OC)		3				
Math (MA)	MATH 140	4				
Analytic Reasoning (AR)	MATH 140	-				
Dis	tributive Studies					
Requirements: 25 credits	Course	Credits	Grade			
Natural Science Lab (NL)	Science sequence course	4				
Natural Sciences (NS)	Science sequence course	3-4				
History/Social Sciences (HS)	TLPL 414	3				
History/Social Sciences (HS)		3				
Humanities (HU)		3				
Humanities (HU)		3				
Scholarship in Practice (SP)	TLPL 101 & TLPL 102	3				
Scholarship in Practice (SP)		3				
	Big Questions					
Normally double of	counted with Distributive Stu	dies				
Requirements: 6 credits	Course	Credits	Grade			
Big Questions		3				
Big Questions		3				
	Diversity					
(overlap permitted with D	istributive Studies and/or Big	g Questions	;)			
Requirements: 6 credits	Course	Credits	Grade			
Understanding Plural Soc. (UP)		3				
Understanding Plural Soc. (UP)	TLPL 401	3				
or Cultural Competency (CC)	ILPL 401	3				
Experient	ial Learning- opitional					
(overlap permitted	withother requirements/cou	urses)				
Requirements:credits	Course	Credits	Grade			
			n/a			
			n/a			
Students must earn a mir	imum of 120 credits to complete a	a degree.				
Requirements for Graduation:		~	_			
At least 30 credits must be earned at l	JMD					
15 of the final 30 credits must be earned						
12 upper level major credits must be e						

UID:			
Content Major Degree Requirements Math Education Track			
Lower level requirements	Credits	Grade	
MATH 140 Calculus I	4		
MATH 141 Calculus II	4		
MATH 240 Linear Algebra (or MATH 340 Honors Sequence)	4		
MATH 241 Calculus III (or MATH 341 Honors Sequence)	4		
Upper level requirements			
MATH 310 Introduction to Analysis	3		
MATH 410 Advanced Calculus I	3		
MATH 402 or 403 Algebraic Structure/Abstract Algebra	3		
MATH 430 Euclidean & Non-Euclidean Geometries	3		
MATH 406, 445, 446, 456, or 475 (Theory/Logic)	3		
MATH 246, 341, 401, 420, 452, 462, or AMSC 460, or 466	3		
400 level MATH Elective (may not include MATH 400, 461, 478, 480-484, AMSC 462 or STAT 464): MATH 470	3-6		
STAT 400 or 410 Applied Probability and Stats/Probability Theory	3		
Programming Requirement	3	1	
Programming Requirement (May be exempted through demonstrated adequate programming knowledge or prior course experien	ce.)		
CMSC 106, 131, 132, PHYS 165, ENEE 150 or other courses as approved	3-4		
Science Sequence* - One of the following sequences			
CHEM 131/132 & CHEM 231/232*	4.4		
BSCI 170/171 & BSCI 160/161*	4.4		
PHYS 161 & PHYS 260/261*	4,4		
ASTR 120 & ASTR 121*	3, 4		
GEOL 100/110 & one of: GEOL 322, 340, 341 or 375*	4, 3-4		
AOSC 200/201 & any 400-level AOSC Course	4.3-4		
Or other sequences as approved			
College of Education Degree Requirements			
Year 1 - Benchmark Requirement			
AW with C- or higher			
MA with C- or higher			
Gateway Requirements			
TLPL 401 with B- or higher	3		
9 credits of content course work with C- or higher			
Pre-Professional Education Requirements			
TLPL101 Inquiry Approach to Teaching STEM (Step 1)	1		
TLPL102 Inquiry Teaching of STEM in Middle School	2		
EDHD 426 Cognitive and Motivational Literacy Content	3		
MATH 274 History of Mathematics (Fall Only)	3		
MATH 470 Mathematics for Secondary Education	3		
TLPL 414 Knowing and Learning in Mathematics and Science	3		
TLPL 401 Student-Centered Curriculum and Instruction			
TLPL 415 Perspectives in Science	3		
Professional Education Requirements			
TLPL 403 Teaching and Learning High School Mathematics (Fall Only)	3		
TLPL 479D Field Experiences in Education; Secondary Mathematics Education (Fall only)	1		
TLPL 478D Professional Seminar in Ed; Professional Seminar in Education: Mathematics (Spring Only)	1	Γ	
TLPL 489D Internship in Education: Mathematics (Spring Only)	12		
TLPL 477 Special Topics in Education; Teaching Academically, Culturally and Linguistically Diverse Students in Secondary Education (Spring Only)	2		
	BB 3	3/22/2024	

Secondary	/ Math	Education	/Math	Double	Maio	r Four	Year	Academic Plan
Secondary	,	Laacation	/	Double	iviujo	11001	i cui	

Year 1	Fall		Spring				
Benchmark Requirements	ENGL 101 (AW)	3	MATH 141	4			
AW with C- or higher	MATH 140 (MA/AR)	4	Science Sequence II (NL)	3-4			
MA with C- or higher Science Sequence I (NL)			ORAL COMMUNICATION (OC)	3			
	HUMANITIES (HU)*	3	HISTORY/ SOCIAL SCIENCE (HS)*	3			
	TLPL 101	1	TLPL 102 (SP, with TLPL 101)	2			
	UNIV 100	1					
	Total	16	Tota	15-16			
Year 2	Fall	Cr.	Spring	Cr.			
	MATH 240	4	MATH 310	3			
	MATH 241	3	MATH 470 Math for Sec Ed	3			
	Programming Requirement	3-4	SCHOLARSHIP IN PRACTICE (SP)	3			
	TLPL 414 Knowing and Learning Math and Sci (HS)	3	HUMANITIES (HU)	3			
Test of Basic Skills	MATH 274 History of Mathematics	3	Elective*	3			
	Total	16-17	Tota	I 15			
Year 3	Fall	Cr.	Spring	Cr.			
Apply to the COE by Dec. 1st	MATH 410	3	MATH 406	3			
Gateway Requirement:	STAT 400 or 410	3	MATH 430	3			
TLPL 401 with B- or higher	PROFESSIONAL WRITING (PW)	3	EDHD 426	3			
C- or better in all content area coursework & 9 credits of content coursework with at least a 2.7	TLPL 401 Student Centered. Curr. & Instruction (CC)	3	TLPL 415 Perspectives in Science	3			
cumulative GPA.	Elective*	3	Elective*	3			
Cumulative GPA of 2.75	Total	15	Tota	1 15			
Year 4	Fall	Cr.	Spring	Cr.			
	YEARLONG INTERNSHIP						
	MATH xxx	3	TLPL 478D	1			
	MATH 402	3	TLPL 489D	12			
	TLPL 403 Teaching and Learing HS Math	3	TLPL 477	2			
	TLPL 479D Field Experience	1					
	Elective*	3					
	Total	13	Tota	1 15			

This is a proposed plan and the College of Education does not guarantee that these courses will be offered in the designated semester. Consult the Schedule of Classes for class availability and meeting times.

\*Students must complete Understanding Plural Society and Cultural Competence courses that may also fulfill a Distributive Studies category. All students must complete two Distribute Studies courses that are approved for Big Questions courses.

Students must also meet with their Academic Advisor in CMNS / Math Department to discuss the Mathematics course requirements.

BB 3/22/2024

## Secondary Math Education/Mathematics Double Major, B.S.

Benchmarks

45-credit review

Completion of English and Math fundamental studies with a C- or better Minimum cumulative GPA of 2.75

75-credit review

Passing scores on a Test of Basic Skills Minimum cumulative GPA of 2.75 Submission of FC/MCEE Self-Assessment Admission to the full degree/professional program (0833P) TLPL 401 with grade of B- or better Satisfactory completion of other Mathematics Gateway courses Double Major with Mathematics on file

90-credit review:

Passing scores on a Test of Basic Skills Minimum cumulative GPA of 2.75 Satisfactory Evaluation on FC/MCEE TLPL 415 with a C- or better Double Major with Mathematics on file

<u>105-credit review:</u> Passing scores on a Test of Basic Skills Minimum GPA of 2.75 Satisfactory Evaluation on FC/MCEE and PBA Passing Scores on the Praxis II - see Advisor for Details. Students must successfully complete the edTPA TLPL 403 with a C- or better TLPL 479D with a Satisfactory grade, "S" Double Major with Mathematics on file