College of Basic and Applied Sciences
Upper Division Form 2018-2019 Catalog

Student name _____ Student # _____

Major __MATHEMATICS__ Minor __Secondary Education (MTeach)__

Concentration __MATHEMATICS EDUCATION__ E-mail _____

General Education	Course	Semester	Grade	Prerequisites/Notes	Credit Hours
COMMUNICATION (9 hours)	ENGL 1010			Must earn a grade of C- or better	3
	ENGL 1020			Must earn a grade of C- or better	3
	COMM 2200			Must earn a grade of C or better	3
HISTORY (6 hours) Choose two: HIST 2010, HIST 2020, HIST 2030					3
					3
HUMANITIES AND/OR FINE ARTS (9 hours) Choose one: ENGL 2020, 2030, HUM 2610. Choose two (different rubrics): ANTH 2210, ART 1030 or 1920, DANC 1000, HIST 1010, 1020, 1110, 1120, MUS 1030, PHIL 1030, THEA 1030					3
					3
					3
MATHEMATICS (3 hours)	MATH 1910			Must first have MATH 1730 (Pre-Calculus) with a grade of C or better, Math ACT of 26 or better, or Calculus placement test score of 73 or better. Also considered part of the major.	3 (+1)
NATURAL SCIENCES (8 hours) Choose two (different rubrics): ASTR 1030/1031, BIOL 1030/1031, BIOL 1110/1111, BIOL 2010/2011, BIOL 2020/2021, CHEM 1010/1011, CHEM 1030/1031, CHEM 1110/1111, GEOL 1030/1031, GEOL 1040/1041, PGEO 1030, PHYS 1110, PHYS 2010/2011, PHYS 2110/2111 PSCI 1030/1031, PSCI 1130/1131					4
					4
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two: AAS 2100, ANTH 2010, ECON 2410, ECON 2420, GEOG 2000, GS 2010, HLTH 1530/1531, EMC/JOUR/RIM 1020, PS 1010, PS 1005, PSY 1410, RS 2030, SOC 1010, SOC 2010, WGST 2100					3
					3
				Hours Required	41

Major Courses - Grade of C (2.0) or better required for Major Courses; 2.75 GPA pre-requisite for Directed Teaching	Course	Semester	Grade	Prerequisites/Notes	Credit Hours
Calculus I	MATH 1910			MATH 1730 with a grade of C or better, Math ACT of 26 or better, or Calculus placement test score of 73 or better (Three hours counted in Gen. Ed. All 4 hours are also considered part of the major.)	1 (+3)
Calculus II	MATH 1920			MATH 1910 with a grade of C or better	4
Elements of Linear Algebra	MATH 2010			MATH 1910	3
MATH 2050 Probability and Statistics *or* STAT 3150 Math Statistics (STAT 3150 is offered in the Fall only)	_____			**MATH 2050:** MATH 1910 **STAT 3150:** MATH 1920	3
College Geometry (Spring only)	MATH 3070			MATH 3460	3
Calculus III	MATH 3110			MATH 1920	4
Foundations of Higher Math	MATH 3460			MATH 1920	3
Abstract Algebra I	MATH 4510			MATH 3460	3
History and Philosophy of Mathematics (Fall only)	MATH 4620			MATH 3460	3
Seminar in Mathematics	MATH 4990			Should be taken in the semester before Residency II	3
MATH elective	MATH _____			See advisor; See online catalog for prerequisites	3
				Hours Required	33

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Supporting Courses - Grade of C (2.0) or better required for supporting courses				
Course	Semester	Grade	Prerequisites/Notes	Credit Hours
MATH 3320 - Teaching Mathematics in Grades 5-8 (Spring only)			Admission to teacher education program	3
MATH 3330 - Teaching Mathematics in Grades 9-12 (Fall only)			Admission to teacher education program, completion of math core, and MATH 3320	3
MATH 4540 - Topics in Secondary School Mathematics (Spring only)			Admission to teacher education program and completion of mathematics core	3
MATH 4740 - Research Methods			YOED 3520	3
CSCI 1160 - Introduction to Computing: A Multimedia Approach			CSCI 1160 no longer taught; take CSCI 1170 instead	4
			Hours Required	16

Minor – Secondary Education (see minor advisor for any questions regarding prerequisites)				
Course	Semester	Grade	Notes	Credit Hours
MSE 1010 - Step 1 Inquiry Approaches to Teaching				1
MSE 2010 - Step 2 Inquiry Lesson Design				1
YOED 3520 - Knowing and Learning in Science and Mathematics				3
YOED 3550 - Classroom Interactions in Mathematics and Science				3
YOED 4050 - Project-Based Instruction in Mathematics and Science				3
PHIL 3120 - Perspectives on Science and Math (Spring only)				3
YOED 4040 - Residency I MTeach				4
YOED 4400 - Residency II				12
				30

Signed:		
	Minor Advisor	Date

1. *Degrees require a minimum of 120 semester hours (12 of the last 18 at MTSU) with a 2.0 GPA, a minimum of 42 upper-division hours (30 at MTSU) with a 2.0 GPA, and a minimum of 60 senior college hours.*
2. *Remedial courses do not count toward the 120-hour requirement or cumulative degree GPA.*

Signed:		
	Major Advisor	Date