College of Basic and Applied Sciences
Upper Division Form 2015-2016 Catalog

Student name _____   Student # _____

Major   **MATHEMATICS**   Minor   **Secondary Education**

Concentration   **MATHEMATICS EDUCATION**   E-mail _____

General Education	Course	Semester	Grade	Notes	Credit Hours
COMMUNICATION (9 hours)	ENGL 1010				3
	ENGL 1020				3
	COMM 2200				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			Will need 1730 Pre-Calculus first if do not have a 26 Math subscore on ACT. 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, CHEM 1130/1131 (same as PHYS 1130/1131), GEOL 1030/1031, GEOL 1040/1041, PHYS 1110, PHYS 1130/1131 (same as CHEM 1130/1131), PHYS 2010/2011, PHYS 2110/2111, PSCI 1030/1031					4
					4
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two: AAS 2100, ANTH 2010, ECON 2410, GEOG 2000, GS 2010, HLTH 1530/1531, EMC/JOUR/RIM 1020, PS 1010, PS 2010, 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	Notes	Credit Hours
Calculus I	MATH 1910			Three hours count in Gen. Ed. All 4 hours are also considered part of the major.	1 (+3)
Calculus II	MATH 1920				4
Elements of Linear Algebra	MATH 2010				3
MATH 2050 Probability and Statistics *or* STAT 3150 Math Statistics	____ ____				3
College Geometry	MATH 3070				3
Calculus III	MATH 3110				4
Foundations of Higher Math	MATH 3460				3
Abstract Algebra I	MATH 4510				3
History and Philosophy of Mathematics	MATH 4620				3
Seminar in Mathematics	MATH 4990				3
MATH elective	MATH ____				3
				Hours Required	33

Revised 4.20.2015

Supporting and Elective Courses (Grade of C(2.0) or better required for Supporting and Elective Courses)				
Course	Semester	Grade	Notes	Credit Hours
MATH 3320 Teaching Mathematics in Grades 5-8				3
MATH 3330 Teaching Mathematics in Grades 9-12			Take with YOED 4040	3
MATH 4540 Topics in Secondary School Mathematics				3
MATH 4740 Research Methods				3
CSCI 1160 Introduction to Computing: A Multimedia Approach				4
			Hours Required	16

Minor – Secondary Education				
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				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

Local Address: _____   Phone: _____

_____

_____

Revised 4.20.2015