

**College of Basic and Applied Sciences
Upper Division Form 2019-2020 Catalog**

Student name _____ Student # _____

Major Science Minor Secondary Education (MTeach)

Concentration Teaching (Biology 7-12 and/or Physics 7-12)

Instructions: For students graduating in Fall 2018 or later. One (1) copy signed by major and minor advisors should be filed in DSB 120 with the Graduation Coordinator three semesters prior to graduation. An Intent to Graduate form should be filed with the Upper Division form.

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 two (different rubrics): ANTH 2210, ART 1030, DANC 1000, HIST 1010, HIST 1020, HIST 1110, HIST 1120, MUS 1030, PHIL 1030, THEA 1030 Choose one: ENGL 2020 or 2030 or HUM 2610					3
					3
					3
MATHEMATICS (3 hours) Choose one: MATH 1010, MATH 1530, MATH 1630, MATH 1710, MATH 1720, MATH 1730, MATH 1810, MATH 1910				Recommend MATH 1730. Additional credit counts in Supporting Courses	3 of 4
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, PGEOL 1030, PHYS 1110, PHYS 2010/2011, PHYS 2110/2111, PSCI 1030/1031, PSCI 1130/1131				Recommend BIOL 1110/1111. Also considered part of major	4
				Recommend PHYS 2010/2011. Also considered part of major	4
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two (different rubrics): AAS 2100, ANTH 2010, ECON 2410, EMC/JOUR/RIM 1020, GEOG 2000, GS 2010, HLTH 1530/1531, PS 1010 or 2010, PSY 1410, SOC 1010 or 2010, WMST 2100					3
					3
Hours Required					41

Major Courses	Course	Semester	Grade	Notes	Credit Hours
General Chemistry I	CHEM 1110/1111			Credits Counted Above	(4)
General Chemistry II	CHEM 1120/1121			Preq: CHEM 1110/1111	4
Non-Calculus Based Physics I & Laboratory (PHYS 2010/2011)	PHYS 2010/2011			Preq: MATH 1730 or MATH 1910	4
Non-Calculus Based Physics II & Laboratory (PHYS 2020/2021)	PHYS 2020/2021			Preq: PHYS 2010/2011	4
Modern Physics I PHYS 3100 or PHYS 3070	PHYS_____			Preq: PHYS 2020/2021	3
Intermediate Physics	PHYS 3400			Preq: PHYS 2020/2021	3
Teaching of Physics	PHYS 3930			Preq: PHYS 3950	3
Reasoning in Physics I: Mechanics	PHYS 3950			Preq: PHYS 2020/2021	1
Reasoning in Physics II: Electricity and Magnetism	PHYS 3960				1
General Biology I	BIOL 1110/1111			Credits Counted Above	(4)
General Biology II	BIOL 1120/1121			Preq: BIOL 1110/1111	4
Genetics	BIOL 3250/3251			Preq: BIOL 1120/1121	4
Microbiology	BIOL 2230/2231			Preq: BIOL 1120/1121	4
General Ecology	BIOL 3400/3401			Preq: BIOL 1120/1121 and CHEM 1110/1111	4\
Hours Required	40(48)				

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Supporting Course				
Course	Semester	Grade	Notes	Credit Hours
MATH 1730			Preq: MATH 1710 or successful completion of high school pre-calculus course.	1 of 4
PSCI 1030/31				4
BIO 4740 Research Methods			Preq: YOED 3520 and BIOL 3250/3251	3
Elective				1
Hours Required				9

Secondary Education Minor (MTeach)				
Course	Semester	Grade	Notes	Credit Hours
MSE 1010 Inquiry Approaches to Teaching				1
MSE 2010 Inquiry Lesson Design			Preq: MSE 1010	1
YOED 3520 Knowing and Learning			Preq: MSE 1010 and MSE 2010	3
YOED 3550 Classroom Interactions			Preq: YOED 3520	3
PHIL 3120 Perspectives on Science and Math				3
YOED 4050 Project Based Instruction			Preq: Admission to MTeach	3
YOED 4040 Residency I: MTeach			Preq: Admission to MTeach; YOED 3520 and YOED 3550	4
YOED 4400 Residency II			Preq: YOED 4040	12
Hours Required				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		