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

Student name		Student#	
Major	Chemistry	Minor	Secondary Education - MTeach
Concentration	Teacher Licensure	E-mail	

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 Analyst three semesters prior to graduation. An Intent to Graduate form must be filed with the Upper Division form.

General Education	Course	Semester	Grade	Notes	Credit Hours
	ENGL 1010				3
COMMUNICATION (9 hours)	ENGL 1020				3
	COMM 2200				3
HISTORY (6 hours)					3
Choose two: HIST 2010, HIST 2020, HIST 2030					3
HUMANITIES AND/OR FINE ARTS (9 hours)					3
Choose one: ENGL 2020 or 2030 or HUM 2610 Choose two (different rubrics): ANTH 2210, ART 1030, ART1920,					3
DANC 1000, HIST 1010, HIST 1020, HIST 1110, HIST 1120, MUS 1030, PHIL 1030, THEA 1030					3
MATHEMATICS (3 hours) *	MATH 1910			Preq: MATH 1730 with a minimum grade of C or Math ACT score of 26.	3 of 4 *
NATURAL COUNTER (O basses)	BIOL 1110/1111			Preq: MATH 1710 with C- or better or MATH ACT of 19 or higher	4
NATURAL SCIENCES (8 hours)	CHEM 1110/1111			Course is also considered part of the major, making a total of 36 credits of CHEM courses.	4
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two (different rubrics): AAS 2100, ANTH 2010,					3
EMC/JOUR/RIM/1020, ECON 2410, ECON 2420, GEOG 2000, GS 2010, HLTH 1530, PS 1010, PS 1005, PSY 1410, RS 2030, SOC 1010, SOC 2010, WGST 2100			_		3
				Hours Required	41

Major Courses (2.0 GPA required) (2.5 GPA pre-requisite for Directed Teaching)	Course	Semester	Grade	Notes	Credit Hours	
General Chemistry I	CHEM 1110/1111			Credits counted in General Education	(4)	
General Chemistry II	CHEM 1120/1121			Preq: CHEM 1110/1111 with a C-	4	
Quantitative Analysis	CHEM 2230			Preq: CHEM 1120/1121 with grade of C-	3	
Quantitative Analysis Lab	CHEM 2231			Preq: CHEM 1120/1121 with grade of C- or better. Coreq: CHEM 2230 recommended	2	
Organic Chemistry I	CHEM 3010/3011			Preq: CHEM 1120/1121 or equivalent	4	
Organic Chemistry II	CHEM 3020/3021			Preq: CHEM 3010/3011	4	
Principles of Biochemistry (3530/3531) or Biochemistry (4500)	CHEM			Preq for CHEM 3530/3531 is CHEM 3010/3011. Preq for CHEM 4500 is CHEM 3020/3021	3-4	
ysical Chemistry Fundamentals I (CHEM 4330/4331) i II (CHEM 4340/4341) ysical Chemistry I (CHEM 4350/44351) and II (4360/4361)	CHEM			Preq for CHEM 4330/4331 is MATH 1910 and PHYS 2020/2021.		
	CHEM			Preq for CHEM 4350/4351 is CHEM 2230/2231; MATH 1920, and PHYS 2020/2021.	8	
Research Methods	CHEM 4740			Preq: YOED 3520	3	
3-4 hours of Chemistry Electives chosen from: CHEM 4000, 4100, 4230/4231, 4400, 4510, 4530, 4600, 4610, 4700, 4780, PSCI 4080 (must choose 4 credits total if CHEM 4500 is taken above)					4-3	
·			•	Hours Required	35 (39)	

Supporting Courses						
Course Semester Grade Notes						
PSCI 1030/1031 Topics in Physical Science				4		
BIOL 1120/1121 General Biology II			Preq: BIOL 1110/1111	4		
MATH 1910 Calculus I Preq: MATH 1730 with a C or better				1 of 4		
PHYS 2010/2011 Non-Calculus Based Physics I and Laboratory	ased Physics I and Laboratory Preq: MATH 1710 w/minimum grade of C or MATH 1730		4			
PHSY 2020/2021 Non-Calculus Based Physics II and Laboratory	Y 2020/2021 Non-Calculus Based Physics II and Laboratory Preq: PHYS 2010/2011					
CHEM 3890 Chemistry Instruction Internship			Preq: Successful completion of target courses and permission of instructor	1		
Hours Required						

Secondary Education Minor (MTeach)						
Course Semester Grade Notes						
MSE 1010 Inquiry A	Approaches to Teaching				1	
MSE 2010 Inquiry L	esson Design			Preq: MSE 1010	1	
YOED 3520 Knowir	ng and Learning			Preq: MSE 1010 and MSE 2010	3	
YOED 3550 Classroom Interactions Preq: YOED 3520		3				
PHIL 3120 Perspec	PHIL 3120 Perspectives on Science and Math			3		
YOED 4050 Project	Based Instruction	D. ALLEY AME A VOED OFFICE		3		
YOED 4040 Reside	ency I) 4		
YOED 4400 Residency II Preq: YOED 4040		12				
	Hours Required					
C:						
Signed:	Minor Advisor Date					

Optional 2 nd Minor							
Course Semester Grade Notes C							
Hours Required							
Signed:							
Minor Advisor Da					Dat	е	

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.
 Remedial courses do not count toward the 120-hour requirement or cumulative degree GPA.

Signed:	· ·	Major Advisor	Date
	Signed:		