

MATHEMATICS MAJOR [B.S.] CHECK-LIST

Data Science Concentration

2017-18 CATALOG

Student's Name _____ Advisor _____

Student ID _____ Class Year _____

MAJOR REQUIREMENTS			
18-19 courses: 64-70 credits			
MATH 241 _____ 6	MATH 255 _____ 4	MATH 471 _____ 2	
MATH 242 _____ 4	MATH 310 _____ 4	MATH 472 _____ 2	
MATH 246 _____ 2	MATH 316 _____ 4	MATH 480 _____ 2	short term _____
STAT 251 _____ 4	CMPS 335 _____ 2	MATH 490 _____ 2	_____ 2
CMPS/MATH/STAT 300-level courses - 2 credit topics courses		One course with laboratory from: BIOL, CHEM, or PHYS	
At least 2 credit topics course in algebra			
At least one 2 credit topics course in analysis		_____ 4	_____ 2
At least two 2 credit topics courses in CMPS, MATH, or STAT			
Computer Science Courses			
_____ 2	_____ 2	CMPS 160 Intro to Computer Science	_____ 4
_____ 2	_____ 2	CMPS 217 Data Structures	_____ 4
_____ 2	_____ 2	CMPS 245 Data Analytics & Visualization	_____ 4
GENERAL EDUCATION REQUIREMENTS			
SKILLS COMPONENTS			
Expository Writing _____	Addl Writing _____	Oral Communication _____	
Basic QR _____	Applied QR _____	Applied Research _____	
PERSPECTIVES			
<i>Must represent at least seven different disciplines. Two perspectives may count toward major requirements.</i>			
Aesthetic Analysis _____ 4	Scientific Inquiry _____		4-6
Creative Expression _____ 4	Social and Cultural Diversity _____		4
Premodern Worlds _____ 4	Global Systems _____		4
Modern and/or Contemporary Worlds _____ 4	Language Requirement _____		0-8
PHYSICAL EDUCATION			
<i>PHED courses must be taken in separate semesters. Wellness component effective for 2017 cohort onward.</i>			
1 _____	2 _____	Wellness _____	
Total credits for graduation = 140 semester credits AND 4 short terms. Short term credits are not included in semester credit total.			
CREDITS EARNED			
Year 1 _____	Year 2 _____	Year 3 _____	Year 4 _____
SHORT TERMS COMPLETED			
Year 1 _____	Year 2 _____	Year 3 _____	Year 4 _____

Required credits outside the department of major = 80 semester credits.