

MATHEMATICS MAJOR [B.S.]  
 DATA SCIENCE CONCENTRATION  
 2020-2021 CATALOG



Name: \_\_\_\_\_ Student ID: \_\_\_\_\_ Class Year: \_\_\_\_\_

Email: \_\_\_\_\_ Advisor: \_\_\_\_\_

Phone: \_\_\_\_\_ Term Declared: \_\_\_\_\_

19 courses: 60-62 credits

Dept	Number	Credits	Course Title	Cr Earned	Term Completed	Grade	Quality Points
MATH	241	6	Calculus I				
MATH	242	4	Calculus II				
MATH	246	2	Laboratories for Mathematical Experimentation				
STAT	251	4	Statistical Methods				
MATH	255	4	Methods of Matrices and Linear Algebra				
MATH	310	4	A Transition to Advanced Mathematics				
MATH	316	4	Several-Variable Calculus				
One 300-level MATH course in algebra							
		2					
One 300-level MATH course in analysis							
		2					
Two 300-level courses in MATH, STAT, or CMPS							
		2					
		2					
CMPS	160	4	Applied Computing I with Google				
CMPS	217	4	Data Structures				
CMPS	245	4	Data Science and Visualization				
CMPS	335	2	Data Mining Techniques				
One course with laboratory from: BIOL, CHEM, or PHYS							
		4					
		2					
MATH	471	2	Mathematics Seminar				
MATH 472 or MATH 480 (2 and Short Term) or MATH 490 (2,2)							
MATH		2					
MATH							
				Total Credits	0	Total Points	0
						Major GPA	#DIV/0!

Additional courses taken in MATH

				Total Credits	0	Total Points	0
						Major GPA	#DIV/0!

**HOLLINS UNIVERSITY**  
**Education through Skills and Perspectives (ESP)**  
**GENERAL EDUCATION REQUIREMENTS**

Name \_\_\_\_\_ Major(s) Mathematics - Data Science (B.S.) Advisor(s) \_\_\_\_\_

**SKILLS COMPONENTS**

SKILL	Dept	Number	Course Title	Term Completed
Expository Writing				
Additional Writing				
Basic QR				
Applied QR				
Oral Communication				
Applied Research				

**PERSPECTIVES**

*Must represent at least seven different disciplines. Two perspectives may count toward major requirements.*

PERSPECTIVE	Dept	Number	Course Title	Credits	Term Completed
Aesthetic Analysis				4	
Creative Expression				4	
Premodern Worlds				4	
Modern/Contemporary Worlds				4	
Scientific Inquiry				4-6	
Social and Cultural Diversity				4	
Global Systems				4	
Language Requirement				0-8	

**PHYSICAL EDUCATION**

*PHED courses must be taken in separate semesters. One course must contain the physical well-being component.*

PHED				0	
PHED				0	

**SHORT TERMS COMPLETED**

*Short term credits are not included in semester credit total.*

	Dept	Number	Course Title	Credits	Term Completed
Year 1					
Year 2					
Year 3					
Year 4					

**CREDITS EARNED**

*Total credits for graduation: B.A. = 128 semester credits AND 4 short terms; B.S. = 140 credits AND 4 short terms;*

*B.A./B.F.A. = 150 credits AND 4 short terms*

*Required credits outside the department of major = 68 semester credits; 80 for B.S.*

Term 1		Term 5	
Term 2		Term 6	
Term 3		Term 7	
Term 4		Term 8	