

## BS Mathematics - Data Science (Fall 2020 & Later)

Minimum 120 credits required for Bachelor's degree	
Foundational Core (30-32 Credits)	Grade

Foundational Core (60-62 Credits)		Grade
FYS 125 <sup>1</sup>	First Year Seminar	
CTL-125	Critical Thinking	
MA _____	Foundational Math course	XXXXXX
Choose 1 course from each area *		
<sup>2</sup> Natural/Physical Science		
Literature		
History	HI-100 or HI-102	
Arts/Design/Comm.		
Philosophy		
Theology/Relig		
Social/Behavioral Science		

**Human Journey Seminars: Great Books in CIT (6 Credits)**

CIT 201	CIT Seminar I	
CIT 202	CIT Seminar II	

### Liberal Arts Explorations (9 Credits Total)

**Student must complete one course in each area.**

Students must complete one course in each area:		
Humanistic Inquiry (3 credits)		
Social and Global Awareness (3 credits)		
Scientific Literacy (3 credits)		

\* See list of courses.

<sup>1</sup>(Requires Grade C or higher)

<sup>2</sup>Science/Natural Science courses includes

approved Math and Computer Science courses. Students are required to take at least one course in Biology, Chemistry, or Physics in the Foundational or Liberal Arts Exploration Core. CS and MA courses may be used as a Science/Natural Science in either the Foundational Core or as a requirement in the LAE Core but not in both categories.

Note: MA 006 and ESL courses **will not** count towards the 120 credit graduation requirement.

Approved Study Abroad courses may be used to satisfy requirements for the foundational core or a Liberal Arts Exploration

A maximum of 8 Applied Music credits may be applied towards graduation

### Required Curriculum for Degree in Major

		Grade
MA 151	Calculus I	
MA 152	Calculus II	
MA 253	Calculus III	
MA 261	Linear Algebra	
MA 301	Mathematical Structures and Proofs	
MA 331	Probability	
MA 332	Mathematical Statistics	
MA 398	Senior Seminar in Mathematics	
MA____	One of MA 362 or 371	
MA____	One of MA 254, 337, 341	

### Required Supporting Courses

Required Supporting Courses		Grade
CS 111	Introduction to Structured Programming	
CS 112	Data Structures	
CS 311	Data Base Design	
<b>Any Two of the Following</b>		
FN 402	Financial Analytics	
CS 481	Introduction to Artificial Intelligence	
CS 482	Applied Machine Learning	

## General Electives (number of credits vary)

[illegible]

## Checksheet Key

T	Course transferred and Requirement satisfied
W	Requirement waived
TW	Course transferred and Requirement waived