MATHEMATICS – BA (120 hours)   Effective 2017-2021

NAME	PID	Optional 2nd Major or Minor

FOUNDATIONS

English Comp. and Rhetoric	Foreign Language*		Quant. Reas. (QR)	Lifetime Fitness (LFIT)
	1.	3.	MATH 231	(1 hr.)
	2.	4.		

* Through Level 3

APPROACHES

Phys. and Life Sciences (PL/PX) **	Social and Behavioral Sciences***	Humanities/Fine Arts
w/lab	Hist. Analysis (HS):	Vis. & Perf. Arts (VP):
	Soc.Sci../Hist. Analysis (SS/HS):	Literary Arts (LA):
	Soc.Sci../Hist. Analysis (SS/HS):	Phil. Reasoning (PH):

** At least one with lab.   ***From at least two departments

CONNECTIONS

Communication Int. (CI)	Quant. Int. (QI) or 2nd Quant. Reas. (QR)	Experiential Ed. (EE)	Global Issues (GL)
	MATH 232		
US Diversity (US)	**North Atlantic World (NA)**	**World before 1750 (WB)**	**Beyond the NA (BN)**

SUPPLEMENTAL EDUCATION
Cannot be a course from the major department or any course used to satisfy major requirements. May only double with Connections. A second major or minor, once completed, meets Supplemental Ed. **Courses must be 3 hours or more.**

	1. **>199**	2. **>199**	3. **>199**

MAJOR/MINOR/ELECTIVES

Additional Requirements	MATHEMATICS ♦ Core Requirements				
MATH 231	MATH 381*	MATH 347/547** or 577			
MATH 232	MATH 383	(#)			
MATH 233	MATH 521	(#)			
** Linear Algebra is now MATH 347. Was MATH 547 prior to Fall 2020.		(#)			
		†			

♦ *2.0 OR HIGHER GPA REQUIRED IN MAJOR AND MINOR CORE COURSES*

♦No more than 45 hours of MATH courses can count toward graduation.

 (#) At least three more MATH courses numbered above 500

 † One of the 3 MATH courses numbered above 500 can be substituted by taking MATH 383L (1) + MATH 528L (1) + MATH 529L (1) sequence

 *A current/former major in statistics and analytics (mathematical decision sciences) may substitute STOR 215 for MATH 381.

Remaining courses after this term:	Hours to be deducted:	Hours Tally:	Notes:
____ Foundations ____	Repeated courses ____	Hours to date: ____	
____ Approaches ____	HSFL ____	Hours in progress ____	
____ Connections ____	Online courses > 24 ____	Pending Study Abroad* ____	
____ Supplemental ____	Other ____	Subtotal ____	
____ ____	Professional School > 30 ____	Hours deducted ____	
____ ____	Hours in subject (BA) > 45 ____	Hours after this term ____	
____ ____	Total ____	Hours remaining to grad ____	
Requirements subtotal ____		Semesters left ____	
____ **Total** ____		*Pending study abroad hours may differ from hours earned.*	

This tally assumes successful completion of presently enrolled courses (not AB or IN), and it does not account for all possible overlaps

Graduate and Career Opportunities

B.A. or B.S. degree with a major in mathematics, suggestions for pure mathematics:
These courses provide a solid theoretical understanding of central mathematics and excellent preparation for graduate study in mathematics or the mathematical sciences.
• MATH 521 and 522
• MATH 577 and 578
• Enough upper-level mathematics courses to satisfy the degree requirements
Those planning graduate study in mathematics or the mathematical sciences may consider taking some of MATH 653, 676, 680, or subsequent courses.

B.S. degree with a major in mathematics, suggestions for mathematical biology:
For students interested in careers or further study in mathematical life sciences.
• BIOL 101 and CHEM 101 or CHEM 102
• At least one of BIOL 201, 202, 205
• At least two of BIOL 452, 454, 526, 551
• MATH 521
• One of MATH 522, 523, 528, 566
• One of MATH 534, 548, 578
• MATH 347/547* or 577
• Three or more mathematics courses numbered above 500. Consider especially MATH 524,529, 535, and
  564

B.A. degree with a major in mathematics, suggestions for mathematical economics:
Suitable for students planning to go on to graduate school in economics or a related area, or pursue a career in economics, business, or finance. *Note: With three more ECON courses numbered above 400, the requirements for the B.A. in economics could also be satisfied.*
• ECON 101, 410, 420
• At least two of ECON 510, 511, 520, 570
• MATH 521
• At least three of MATH 522, 524, 535, 550, 555, 564, 565
• Either MATH 535/STOR 435 and STOR 555, or ECON 400 and 570
• MATH 347/547* or 577

B.A. degree with a major in mathematics, suggestions for future high school teachers:
• MATH 231 or 241, 232 or 283, 233, 381, and 383
• At least one of MATH 515, 534, 535, 548, 550
• MATH 521
• MATH 533
• MATH 347/547* or 577
• MATH 551
• STOR 155