

Mathematics B.S. Subject Matter Preparation 4-Year Path 2022-2023

Fall Freshman Courses (14 units total)	Course or GE Title	Units	GE/Major
FYS 124	Intro to Env Sci	4	FYS, B2,B3
MATH 150*	Calculus I	4	B4, major
HCOM 120 or 125, SBS 110, or (CAD 102 +CAD 90)	Critical Reading and Writing	3	A2
GE Area C2	Any Humanities (GE Area C2) course	3	C2
Spring Freshman Courses (17 units total)	Course or GE Title	Units	GE/Major
MATH 151	Calculus 2	4	Major
MATH 170	Discrete Mathematics	4	Major
HCOM 110	Fundamentals of Speaking & Listening	3	A1
HDFS 200 or KIN 161 or KIN 263	Any GE area E	3	E
Physical Science (B1) GE	Any GE area B1 course	3	B1
Fall Sophomore Courses (16 units total)	Course or GE Title	Units	GE/Major
MATH 265 (fall only)	Differential Equations & Linear Algebra	4	Major
HCOM200, HCOM202, BIO131 or ENSTU130	Critical Thinking GE	3	A3
SL210S, ED212S, GS280S, HCOM260S, SBS212S	Civics/Service Learning GE course	3	DCSL, US2&3
CST 274 or HCOM 251, 265 or SBS 111	US History D-area GE	3	US1, DGSS
Any GE Area C1	Art GE area C1	3	C1
Spring Sophomore Courses (14 units total)	Course or GE Title	Units	GE/Major
CST 231 or 319	Problem-Solving & Programming	4	Major
MATH 250	Multivariate Calculus	4	Major
GE area C1 or C2 course	Additional C1 or C2 Arts or Humanities	3	C1 or C2
GS 236. HCOM 220, 224, 229, 243, 246, or 247, or SBS 249, HOSP 221, or SPAN 260	GE area F (ethnic Studies)	3	F
Fall Junior Courses (17 units total)	Course or GE Title	Units	GE/Major
MATH 300	Major Proseminar	4	GWAR, Major
MATH 320	Applied Probability & Statistics	4	Major
MATH 322	Foundations of Modern Math	4	Major
MATH 361S (Fall only)	Mathematics Tutors	5	UDSL, conc
Spring Junior Courses (15 units total)	Course or GE Title	Units	GE/Major
MATH 330 (spring only)	Advanced Linear Algebra	4	Major
MATH 325 or 326 or 329	Number Theory, History of Math, or College Geometry	4	Concentration
MATH or STAT UD elective	MATH or STAT elective- see catalog	4	Concentration
STAT 310 or any UDB	Data Visualization	3	UDB
Fall Senior Courses (15 units total)	Course or GE Title	Units	GE/Major
MATH 410 (fall only)	Modern Algebra I	4	Major
MATH 420 (fall only)	Mathematical Analysis	4	Major
MATH 325 or 326 or 329	Number Theory, History of Math, or College Geometry	4	Concentration
SPAN 340 or 350 or JAPN 340 or 350	UD C with World Culture & languages	3	UDC, WCL
Spring Senior (12 units total)	Course or GE Title	Units	GE/Major
MATH 400	Capstone Seminar	4	Major
MATH 325 or 326 or 329	Number Theory, History of Math, or College Geometry	4	Concentration
Any upper-division Social Science GE	UD Social Science	3	UDD
Free electives	Free electives	1	Electives
MATH Subject Matter Preparation:		120	

*Students must complete an online placement to enroll in MATH 150. Contact the MATH advisor for information about the Calculus placement.