

Mathematics Education

Bismarck State College (AS) and University of Mary

Freshman:	Fall		UMary Equivalent
POLS 115	Arts & Humanities Elective (Arts & Humanities)	3	Core Elective
ENGL 110	College Comp I (Comm)	3	ENG 111
MATH 107/165	Pre-Calculus or Calculus I (Math/Sci/Tech)	4	MAT 153/209
CHEM 121/121L	General Chemistry I/Lab (Math/Sci/Tech)	5	CHE 111/L
	Fall Credits	15	
	Spring		
ENGL 120	College Comp II (Comm)	3	ENG 121
PSYC 111	Introduction to Psychology (Soc Sci)	3	PSY 201
COMM 110	Fundamentals of Public Speaking (Comm)	3	COM 110
CSCI 122	Beginning Visual Basic (Math/Sci/Tech)	3	CIS 106
MAT 165/166	Calculus I or Calculus II (Math/Sci/Tech)	4	MAT 209/210
	Spring Credits	16	
	Total Freshman Credits	31	
	Sophomore:		
	Fall		
PHYS 251	University Physics 1/Lab (Math/Sci/Tech)	5	PHY 203
BSC	Enrichment Elective	2	--
MATH 166/265	Calculus II or Calculus III (Math/Sci/Tech)	4	MAT 210/211
MATH 227	Applied Linear Algebra (Math/Sci/Tech)	3	MAT 312 (LL)
PSYC 230	Educational Psychology (Soc Sci)	3	PSY 205
	Fall Credits	17	
	Spring		
PHIL 210	Ethics (Arts & Humanities)	3	PHI 208
MATH 220	Probability and Statistics (Math/Sci/Tech)	3	MAT 411 (LL)
MATH 265/208	Calculus III (or Discrete Math) (Math/Sci/Tech)	4	MAT 211
CSCI 160	Computer Science I (Math/Sci/Tech)	3	CIS 125 (subs for MAT 200)
MATH 266	Introduction to Differential Equations	3	MAT 334 (LL)
	Spring Credits	16	
	Total Sophomore Credits	33	
	Total BSC Credits	64	(62→UMary)
	Junior:		
	Fall		
HUM 322	Transfer Seminar	1	
MAT 402 or 421	Algebraic Structures or Real Analysis	4	
THE/CTH 234	History of Math or Benedict: Yesterday & Today	3	
EDU 202	Intro to Education	3	
EDU 295	Learners with Exceptional Needs	3	
EDU 320	Curriculum, Inst. & Assessment	2	
	Fall Credits	17	
	Spring		
MAT 221**	Euclidean Geometry	4	
MAT 429 or MAT XXX	Seminar in Mathematics or other 300/400 Math Elective	4	
Elective	Math 300/400 Elective	4	
EDU 377 and EDU 310	Secondary Methods (and Practicum)	3	
EDU 301	Classroom Management	2	
	Spring Credits	17	
	Total Junior Credits	34	
	**May become MAT 3XX in near future		

Senior:	Fall		
MAT 402 or 421	Algebraic Structures or Real Analysis	4	
MAT 443	History of Math	4	
EDU 365	Reading in Content Area	2	
EDU 367 and EDU 390	Cultural Diversity and Human Relations (and Practicum)	4	
EDU 421 and EDU 401	Instructional Strategies (and Practicum)	3	
EDU 411	Student Teacher Assessment	0	
	Fall Credits	17	
	Spring		
EDU 444	Student Teaching	12	
EDU 423	Student Teaching Seminar	1	
HUM 499	Senior Comp	0	
	Spring Credits	13	
	Total Senior Credits	30	
	Total UMary Credits	64	
	Total Bachelor's Degree Credits	126	