Mathematics

Bismarck State College (AS) and University of Mary

Freshman:	**Fall**		**UMary Equivalent**
Elective	Arts & Humanities Elective	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	PSY 203
BSC	Enrichment Elective	2	Elective
MATH 166/265	Calculus II or Calculus III (Math/Sci/Tech if 166)	4	MAT 210/211
MATH 227	Applied Linear Algebra	3	MAT 312 (LL)
SOC 110/ECON 201	Introduction to Sociology or Principles of Microeconomics (Soc Sci; Diversity)	3	SOC 107/ECN 203
	Fall Credits	**17**	
	Spring		
PHIL 210	Ethics (Arts & Humanities)	3	PHI 208
MAT 220	Probability and Statistics	3	MAT 411 (LL)
MATH265/208/POLS115	Calculus III [or Discrete Math (Math/Sci/Tech)] [or American Government (Soc Sci)]	4 or 3	MAT 211/MAT 306(LL)/POL 202
MATH 266	Introduction to Differential Equations	3	MAT 334 (LL)
	Spring Credits	**12-13**	
	Total Sophomore Credits	**30**	
	Total BSC Credits	**60-61**	**(62→UMary)**
Junior:	**Fall**		
HUM 322	Transfer Seminar	1	
MAT 402 or 421	Algebraic Structures or Real Analysis	4	
MAT 443* or THE 234	History of Math or Benedict: Yesterday & Today	4 or 3	
	300-400 Level Electives	9	
	Fall Credits	**17-18**	
	Spring		
MAT 221**	Topics in Euclidean Geometry	4	
MAT 429 or MAT XXX	Seminar In Mathematics or 300/400 Level Math Elective	4	
MAT/ENR 200	Computing in Math and Engineering	3	
Elective	300/400 Level Electives	6	
	Spring Credits	**17**	
	Total Junior Credits	**34-35**	
	***History of Math may be replaced by another Math elective in a later semester with approval from the student's UMary advisor.		

	**May become MAT 3XX in near future		
Senior:	**Fall**		
MAT 402 or 421	Algebraic Structures or Real Analysis	4	
MAT 443* or THE 234	History of Math or Benedict: Yesterday & Today	4 or 3	
	Other 300/400 level Electives	9	
	Fall Credits	**16-17**	
	Spring		
MAT 429 or MAT XXX	Seminar in Mathematics or 300/400 Level Math Elective	4	
Elective	Elective (The number of 300/400 upper level credits still needed varies –minimum of 44 total upper level, and a minimum of 124 total credits is needed.)	10-14	
HUM 499	Senior Competences Assessment	0	
	Spring Credits	**14-18**	
	Total Senior Credits	**30-35**	
	Total UMary Credits	**64+**	
	Total Bachelor's Degree Credits	**124+**	