

2021-2022 Four-Year Plan for the BS Math: Applied Computation Degree

Freshman			Spring		
Fall					
MATH 143	College Algebra	3	MATH 170	Calculus I	4
Elective	Scientific Ways of Knowing Course	4	MATH 144	Analytic Trigonometry	1
ENGL 101	Writing and Rhetoric I	3	ENGL 102	Writing and Rhetoric II	3
Elective	Oral Communication Course	2	CS 120	Computer Science I	4
Elective	American Diversity Course	3	Elective	Humanistic and Artistic Ways of Knowing Course	3
Total Credits		15	Total Credits		15

Sophomore			Spring		
Fall					
MATH 175	Calculus II	4	MATH 215	Proof via Number Theory	3
MATH 176	Discrete Mathematics	3	MATH 330	Linear Algebra	3
Elective	International Course	3	MATH 275	Calculus III	3
CS 121	Computer Science II	3	Elective	Social and Behavioral Ways of Knowing Course	3
Elective	Free Elective	3	Elective	Scientific Ways of Knowing Course	4
Total Credits		16	Total Credits		16

Junior			Spring		
Fall					
MATH 452 or STAT 301	MATH 452 or STAT 301	3	MATH 395	Analysis of Algorithms	3
MATH 310	Ordinary Differential Equations	3	MATH Choice	MATH 376 or 426 or 430 or 432 or 451 or 452 or 461 or 462 or 476	3
MATH 385	Theory of Computation	3	Elective	Humanistic and Artistic Ways of Knowing Course	3
Elective	Social and Behavioral Ways of Knowing Course	3	Elective	Free Elective	3
Elective	Free Elective	3	Elective	Free Elective	3
Total Credits		15	Total Credits		15

Senior			Spring		
Fall					
MATH 415	Cryptography	3	MATH 428 or 432	MATH 428 or MATH 432	3
MATH Choice	MATH 376 or 426 or 430 or 432 or 451 or 452 or 461 or 462 or 476	3	Elective	Free Elective, 1-credit course	1
Elective	Free Elective	3	Elective	Free Elective	3
Elective	Free Elective	3	Elective	Free Elective	3
Elective	Free Elective	3	Elective	Free Elective	3
Total Credits		15	Total Credits		13