

BS Mathematics

Course	Course Title	Pre-Requisite (Course #)	Co-Requisite (Course #)	Rotation (odd/even/every year(s))		
				Fall	Spring	Summer
MATH 0099	Non-Course Based Support for Math		MATH 1332	Every	Every	Every
MATH 0214	Foundational Support College Algebra		MATH 1314	Every	Every	Every
MATH 0242	Foundational Support Statistics for Life		MATH 1442	Every	Every	Every
MATH 1014	Essential Support College Algebra		MATH 1314	Every	Every	
MATH 1024	Essential Support Business Math		MATH 1324	Every	Every	
MATH 1025	Essential Support Business Calculus		MATH 1325	Every	Every	
MATH 1314	College Algebra	TSI, TSIA2, SAT, ACT Math minimum scores required	TSI Liable: MATH 0214	Every	Every	Every
MATH 1316	Trigonometry	MATH 1314, or SAT, ACT Math minimum scores required		Every	Every	Every
MATH 1324	Math for Business & Social	TSI, TSIA2, SAT, ACT Math minimum scores required	MATH 1024	Every	Every	Every
MATH 1325	Calculus for Business & Social	MATH 1324	MATH 1025	Every	Every	Every
MATH 1332	Contemporary Mathematics	TSI, TSIA2, SAT, ACT Math minimum scores required	TSI Liable: MATH 0099	Every	Every	Every

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MATH 1442	Statistics for Life	TSI, TSIA2, SAT, ACT Math minimum scores required	TSI Liable: MATH 0242 LAB	Every	Every	Every
MATH 2305	Discrete Mathematics I	MATH 2413		Every	Every	Every
MATH 2312	Precalculus	MATH 1314, or SAT, ACT Math minimum scores required		Every	Every	Every
MATH 2413	Calculus I	MATH 1316, or MATH 2312, or SAT, ACT Math minimum scores required	LAB	Every	Every	Every
MATH 2414	Calculus II	MATH 2413 or 2413.		Every	Every	Every
MATH 2415	Calculus III	MATH 2414 or 2414.		Every	Every	Every
MATH 3300	Geospatial Mathematical Techniques	MATH 2413 and 2414.				
MATH 3301	Introduction to Complex Analysis	(MATH 2415 or 2415) or (MATH 2414 or 2414 and MATH 3314 or 3314).		Odd		
MATH 3310	Mathematical Analysis for Mechanical Engineering	MATH 3315.				
MATH 3311	Linear Algebra	MATH 2413 or 2413.		Every	Every	Every
MATH 3312	College Geometry	MATH 2413 or 2413.		Every		
MATH 3313	Foundations of Number Theory	MATH 2414 or 2414.		Every		
MATH 3314	Foundations of Real Numbers	MATH 2414.			Every	

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MATH 3315	Differential Equations	MATH 2414 or 2414.		Every	Every	Every
MATH 3342	Applied Probability and Statistics	MATH 2413 or 2413.		Every	Every	Every
MATH 3345	Statistical Modeling and Data Analysis	MATH 2413 or 2413 and (COSC 1330, 1330, 1435, 1435 or 1320).		Every	Every	Every
MATH 3347	Introduction to Probability	MATH 2415.				
MATH 3349	Principles of Data Science	MATH 3311.				
MATH 3385	Linear Optimization and Decisions	MATH 3311 and 2413.		Even		
MATH 3390	Problem Solving in Mathematics	MATH 2414.				
MATH 4185	Senior Mathematics Seminar			Every		
MATH 4285	Mathematics Major Capstone	MATH 4185.			Every	
MATH 4301	Introduction to Analysis	MATH 2415 or 2415 and MATH 3314 or 3314.		Every		
MATH 4306	Modern Algebra	MATH 3311 and 3313.			Every	
MATH 4312	Differential Geometry	MATH 2415.	MATH 3311			
MATH 4315	Partial Differential Equations	MATH 3315 and 2415.			Even	
MATH 4321	Applied Regression Analysis	MATH 1342, 2342 or 1470.				

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MATH 4328	Discrete Mathematics II	MATH 2305 and COSC 2437.			Every	
MATH 4342	Introduction to Mathematical Statistics	MATH 2415.			Odd	
MATH 4385	Applied Modeling	MATH 3315 and 3342 or MATH 3345.			Every	
SMTE 1350	Fundamentals of Mathematics I	MATH 1314		Every	Every	Every
SMTE 1351	Fundamentals of Mathematics II	SMTE 1350		Every	Every	Every
SMTE 3352	Fundamentals of Mathematics III	SMTE 1351		Every	Every	Every
SMTE 4370	Mathematics Education Topics I					Odd
SMTE 4382	Basic Mathematics From An Advanced Viewpoint	MATH 2305, MATH 3312			Every	