

Courses offered in the Department of Mathematics

Catalogue year : 2021-2022

Major in Mathematics									
Core Courses (Major in Mathematic) (11 courses, 35 Credit Hours)					Elective Courses (Major in Mathematic) (At least 13 credit hours)				
Core Courses	Cr . H	Pre. Reg	Offered in Semester	*Cross listed with	Elective Courses	Cr . H	Pre. Req	Offered in Semester	* Cross listed with
MATH 201	3	MATH 102	Fall & Spring		MATH 212	3	MATH 101 or (Mathematics in intermediate)	Fall	
MATH 202	3	MATH 102	Fall & Spring		MATH 303	3	MATH 101 or (Mathematics in intermediate)	Spring	
MATH 203	3	MATH 102	Fall & Spring		MATH 304*	3	MATH 103	Spring	STAT 313
MATH 209	3	MATH 103 & MATH 102	Fall		MATH 308	3	MATH 301 or MATH 203	Fall	
MATH 301	3	MATH 201	Spring		MATH 312	3	MATH 202	Fall	
MATH 302	4	MATH 203	Spring		MATH 314*	3	MATH 105	Fall	STAT 304
MATH 307	4	MATH 201	Spring		MATH 315*	3	MATH 105	Fall or Spring	STAT 311
MATH 309	3	MATH 201	Fall		MATH 316*	3	MATH 102	Fall or Spring	PHYS 341
MATH 310	3	MATH 102 or MATH 103	Spring		MATH 401	4	MATH 313	Fall or Spring	
MATH 311	3	MATH 210	Fall		MATH 402	4	MATH 313	Fall	
MATH 313	3	MATH 103 & MATH 210	Spring		MATH 403*	4	MATH 303	Spring	CSCS 403
<p>Note:</p> <p>Requirements of Major: Major CGPA of at least 2.0. 48 credit hours including 11 core courses (35 credit hours) and at least 13 credit hours from elective courses, but students are advised to take as many elective courses as possible.</p> <p>Cross-listed Courses: MATH 304, MATH 314, MATH 315, MATH 316, MATH 403, MATH 408, MATH 410, MATH 411</p> <p>Important Prerequisites: MATH 102, MATH 103, MATH 105, MATH 210</p>					MATH 404	4	MATH 202	Spring	
					MATH 406	3	MATH 201	Fall or Spring	
					MATH 407	3	MATH 311	Spring	
					MATH 408*	3	MATH 105	Fall	STAT 401
					MATH 409	4	MATH 203 & MATH 209	Fall	
					MATH 410*	3	MATH 302	Fall or Spring	PHYS 461
					MATH 411*	3	MATH 410	Fall or Spring	PHYS 462
					Total Credits: 48 (13 from elective and 35 of core).				

Catalogue year: 2021-2022**Freshmen year**

Fall 2021 (1 st semester)			Spring 2022 (2 nd semester)		
Course	Credit Hr	Remarks/Status	Course	Credit Hr	Remarks/Status
UNIV100	3		Gen.Edu Course	3	
Gen.Edu Course	3		Gen.Edu Course	3	
Gen.Edu Course	3		Gen.Edu Course	3 or 4	
Gen.Edu Course	3		MATH 102 (it also includes in Gen.Edu Course)	3	
Gen.Edu Course	3or 4		MATH 103 (it also includes in Gen.Edu Course)	3	

Sophomore year

Fall 2022 (3 rd semester)			Spring 2023 (4 th semester)		
Gen.Edu Course	3		Gen.Edu Course	3	
Gen.Edu Course	3		Gen.Edu Course	3	
Gen.Edu Course	3or 4		MATH 210	3	
MATH 201	3		MATH 303 or MATH 304 or MATH 105	3	
MATH 202 or MATH 203	3		One free elective	3	

Junior year

Fall 2023 (5 th semester)			Spring 2024 (6 th semester)		
MATH 202 or MATH 203	3		MATH 301	3	
MATH 209	3		MATH 310	3	
MATH 309 or MATH 311	3		MATH 313	3	
One math elective from Category B	3 or 4		MATH 307 or MATH 302	4	
One free elective	3		One free elective	3	

Senior year

Fall 2024 (7 th semester)			Spring 2025 (8 th semester)		
MATH 309 or MATH 311	3		MATH 307 or MATH 302	4	
One math elective from Category B	3 or 4		Two math electives from Category A	6	
Three free electives	9	We strongly recommend to choose these free electives at least two from math electives	Two to three free electives	6 or 9	We strongly recommend to choose these free electives at least one from math electives
Total Credits:	124				

Category A: MATH 201, MATH 202, MATH 203, MATH 301, MATH 302, MATH 303, MATH 304, MATH 307, MATH 310, MATH 313, MATH 315, MATH 403, MATH 404, MATH 407, MATH 411

Category B: MATH 201, MATH 202, MATH 203, MATH 209, MATH 212, MATH 308, MATH 309, MATH 311, MATH 314, MATH 316, MATH 402, MATH 408, MATH 409, MATH 410

Note: Core course are with bold text

Minor in Mathematics

Core Courses (Minor in Mathematic) (4 courses, 12 Credit Hours)				Elective Courses (Minor in Mathematic) (At least 12 credit hours)				
Core Courses	Cr . H	Prerequisites (if any)	Offered in Semester	Elective Courses	Cr . H	Pre. Req	Offered in Semester	* Cross listed with
MATH 102 or MATH 111	3	MATH 101 or (Mathematics in intermediate)	Fall & Spring	MATH 203	3	MATH 101 or (Mathematics in intermediate)	Fall & Spring	
MATH 103 or CSCS 202	3	MATH 101 or (Mathematics in intermediate)	Fall & Spring	MATH 209	3	MATH 103 & MATH 102	Fall	
MATH 201 or CSCS 201	3	MATH 102 or MATH 111	Fall & Spring	MATH 212	3	MATH 101 or (Mathematics in intermediate)	Fall	
MATH 202 or CSCS 203	3	MATH 102 or MATH 111	Fall & Spring	MATH 301	3	MATH 201	Spring	
<p>Note:</p> <p>Requirements of Minor: Minor 24 credit hours including 4 core courses (12 credit hours) and at least 12 credit hours from elective courses.</p> <p>Cross-listed Courses: MATH 304, MATH 314, MATH 315, MATH 316, MATH 403, MATH 408, MATH 410, MATH 411</p> <p>Important Prerequisites: MATH 105, MATH 210</p>				MATH 302	4	MATH 203	Spring	
				MATH 303*	3	MATH 101 or (Mathematics in intermediate)	Spring	COMP 113
				MATH 304*	3	MATH 103	Spring	STAT 313
				MATH 307	4	MATH 201	Spring	
				MATH 308	3	MATH 301 or MATH 203	Fall	
				MATH 309	3	MATH 201	Fall	
				MATH 310*	3	MATH 102 or MATH 103	Spring	CSCS 320
				MATH 311	3	MATH 210	Fall	
				MATH 312	3	MATH 202	Fall	
				MATH 313	3	MATH 103 & MATH 210	Spring	
				MATH 314*	3	MATH 105	Fall	STAT 304
				MATH 315*	3	MATH 105	Fall or Spring	STAT 311
				MATH 316*	3	MATH 102	Fall or Spring	PHYS 341
				MATH 401	4	MATH 313	Fall or Spring	
				MATH 402	4	MATH 313	Fall	
MATH 403*	4	MATH 303	Spring	CSCS 403				
<p>Total Credits: 124 (12 from elective and 12 from core)</p>				MATH 404	4	MATH 202	Spring	
				MATH 406	3	MATH 201	Fall or Spring	
				MATH 407	3	MATH 311	Spring	
				MATH 408*	3	MATH 105	Fall	STAT 401
				MATH 409	4	MATH 203 & MATH 209	Fall	
				MATH 410*	3	MATH 302	Fall or Spring	PHYS 461
				MATH 411*	3	MATH 410	Fall or Spring	PHYS 462