Mathematics2 YEAR PROJETentative: Check "Search for Classes" on SU Online for the quarterly schedule.

	18th			/.	?/	/2	/2		3.	24/24	
	Course Name			m ^{et} s	<u>}</u>	iel i	ne/	O ^{et}	\$}. }}.	el nine P	Pre&Co-Requisites OR Notes
MAT		/	SHI	2	M	3	all	Ĭ	M	S.	
1000	Funct & Alg Methods	Í	X	X	Í		X	X	ĺ	PREQ: Hi	gh School algebra and geometry
1010	College Algebra for Business		х	x	x		х	x	x	equivalent	t placement).
			v		v		v	v	v	PREQ: M	ATH 1000 with C- or better (or
1021	Precalculus: Algebra		^	^	^		^	^	^	equivalent	t placement).
4000	T el		x	x	x		x	x	x	PREQ: M	ATH 1010 or 1021 with C- or better (or
1022	Ingonometry		-	<u> </u>	-		-	-			$ATH 1010 \text{ or } 1021 \text{ with } C_{-} \text{ or better } (or $
1130	Elements of Calculus Business		х	X	X		X	X	X	equivalent	t placement).
			v		×		v	×		PREQ: M	ATH 1010 or 1021 with grade of C- or
1210	Statistics for Life Sciences		X	×	X		X	X	X	better (or	equivalent placement).
			x		x		x		x	PREQ: a g	grade of C- or better in MATH 1010 or
1230	Calculus for Life Sciences									(or equiva	ent placement): COREQ: MATH 1022
1331	Calculus with Algebra 1(a)		Y	-	-		Y		-		
1332	Calculus with Algebra 1(b)		^	x	-	_	^	x	-		
1002			-	^	-	_	-	^	-		
			х	x	x		x	x	x	PREQ:MA	ATH 1021 with C- or better (or equivalent
1334	Calculus I									placemen	t); COREQ:MATH 1022; LAB FEE
1335	Calculus II		Х	X	X		Х	X	X	PREQ:MA	ATH 1334 with C- or better; LAB FEE
1336	Calculus III		Х	X	X		Х	X	X	PREQ:MA	ATH 1335 with C- or better.
2080	Mathematics for K-8 Teachers			X				X		equilvalent pl	lacement)
2310	Probability & Statistics for Sciences & Engineering	Х	Х	X	X	Х	Х	X	X	PREQ: M	ATH 1336 with C- or better.
2320	Linear Algebra		Х	X	X		Х	X	X	PREQ: M	ATH 1336 with C- or better; LAB FEE
2330	Multivariable Calculus	Х	Х	X	X	Х	Х	X	X	PREQ: M	ATH 1336 with C- or better; LAB FEE
2340	Differential Equations	Х	Х	X	X	Х	Х	X	X	MATH 233	30.
3000	Introduction to Advanced Mathematics		Х		X		Х		X	PREQ: M	ATH 1336 with C- or better.
3001	Math Communication		Х		X		Х		X		
3150	Financial Mathematics		Х							PREQ: M	ATH 1336 with C- or better.
3411	Probability						Х			PREQ: M	ATH 2330 with C- or better.
3412	Mathematical Statistics		_		<u> </u>		_	X		PREQ: M	ATH 3411 with C or better.
3420	Advanced Linear Algebra	_		<u> </u>	X		_		_	PREQ: M	ATH 2320 with C- or better.
3430	Introduction to Complex Variables	_	X	<u> </u>	-		-	v		PREQ. M	ATH 2340 with C- or better: LAB EEE
3440	Introduction to Numerical Methoda		-		-	_	-	X			ATH 2320 with C- or better: LAB FEE
3450	Asymptotics and Perturbation Methods	-	-	×	-	_	-	-		PREQ: M	ATH 2340 with C- or better
3460	Fuclidean and Modern Geometries		-	-	-		-		-	MATH 300	00
3910	Topics in Math		-	-	x	_	-		x	Instructor	Permission
4421	Abstract Algebra I		х		<u> </u>		-	x	<u> </u>	PREQ: M	ATH 3000 with C or better.
4422	Abstract Algebra II			x						PREQ: M	ATH 4421 with C or better.
4431	Real Analysis I			x			Х			PREQ: M	ATH 3000 with C or better.
4432	Real Analysis II							X		PREQ: M	ATH 4431 with C or better.
									x	PREQ: M	IATH 2330 with C- or better and MATH
4440	Applied Fourier Analysis		_		<u> </u>		_		Ĺ	2340 with	a C- or better.
4740	Math Models of Near Shore Phenomena		-		<u> </u>		_	X	-	Inot	a Dermission on 1st days Orada of N
4481	Senior Synthesis I		x				x			received u	s Permission on 1st day; Grade of N until MATH 4483 completed.
-			-				-		\vdash	Instructor'	s Permission on 1st day; Grade of N
4482	Senior Synthesis II			X			L	X		received u	until MATH 4483 completed.
4483	Senior Synthesis III				X				X	Instructor'	s Permission on 1st day;
5315	Mathematical Foundations of Data Science		x				х			PREQ: Ca	alculus III (MATH 1336 or equivalent)
			-				-				
DATA											

					-					
3310	Data Visualization	x	x			x	x		P C 1/ S co M	REQ: One of the following statistics courses: RJS 3020, ECON 2100, EVST 3400, MATH 210, 2310, 3412, PSYC 3050, PUBA 4400, OCW 4010 & one of the following programming purses: CPSC 1220, CPSC 1420, ECEGR 2000, IEGR 2810
3320	Methodology & Applications of Data Science		x	x			x	x	P C 1 S c M c f c D	REQ: One of the following statistics courses: RJS 3020, ECON 2100, EVST 3400, MATH 210, 2310, 3412, PSYC 3050, PUBA 4400, OCW 4010; One of the following programming ourses: CPSC 1220, CPSC 1420, ECEGR 2000, IEGR 2810; One of the following database ourses: CPSC 2300, CPSC 3300; & One of the ollowing data visualization courses: BUAN 3210, ATA 3310
5000	Fundamentals of Data Science		x				x		N	one
5100	Foundations of Data Science	Х				Х			р	rogram
5111	Probability for Data Science		X				X		Ρ	REQ: DATA 5100
5120	Data Science, Law & Ethics			X				X	Ρ	REQ: DATA 5100
5155	Numerical Methods for Machine Learning	Х				X			0	r ECEGR 4760
5300	Applied Statistical Inference & Experimental Design	X				X			р	rogram
5310	Data Visualization	X				Х			р	rogram
5321	Statistical Machine Learning I		X				X		Ρ	REQ: DATA 5100 & 5300
5322	Statistical Machine Learning II			X				X	Ρ	REQ: DATA 5321
5901	Capstone I		X				X		P	REQ: DATA 5321
5902	Capstone II			X				X	P	REQ: DATA 5901; PREQ/COREQ: DATA 5120



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