PHYSICAL SCIENCES

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	Math 1110 will meet the Quantitative Literacy general education require				
I.	AJOR REQUIREMENTS (not including 4 s.h. counted in Area I, above)				
۹.	Mathematics Common Core (15 hours)				
	MAT 1110 (4) Calculus with Analytic Geometry I (Pre: MAT 1025 w/min grade C-)				HONORS STUDENTS
	MAT 1120 (4) Calculus with Analytic Geometry II (Pre: N				You may substitute MAT
	MAT 2110 (4) Techniques of Proof (<i>Pre: MAT 1120</i>)		, , ,		2510 Sophomore Honors
	MAT 2240 (3) Introduction to Linear Algebra (Pre: MAT 1120)				Seminar for MAT 2110, and MAT 4510 Senior Honors
B.	Mathematics Courses for the Concentration (20 hours)				Thesis for your Capstone.
	MAT 2130 (4) Calculus with Analytic Geometry III (Pre: MAT 1120 w/min grade C-)				This will slightly change your elective requirements
	MAT 2310 (3) Computational Mathematics (Pre: MAT 1120)				to ensure you earn 65
	MAT 3130 (3) Introduction to Differential Equations (Pre: MAT 1120)				hours in Area II. Please see
	MAT 4310 (3) Numerical Methods (<i>Pre: MAT 2310, 2240; rec: MAT 2130 or 3130</i>)				your advisor for approval
	STT 3850 (4) Statistical Data Analysis I (<i>Pre: MAT 1110</i>)				and more information.
	Choose one:				
	MAT 3110 (3) Introduction to Modern Algebra [WID] (Pre: RC 2001; MAT 2110 or 2510; Co: 2240)				
	MAT 3220 (3) Introduction to Real Analysis [WID] (Pre: RC 2001; MAT 2110 or 2510)				
Ξ.	Capstone Requirements (4 hours) Choose one option:				
	DPTION 1: 4 hours				
	MAT 4311 (1) Capstone: Numerical Methods [CAP] (Co: MAT 4310)				
	MAT 4000-level course (3)				
	course in each pair below MAT 4010 (1-3) Current Topics in Mathematics MAT 4140 (3) Differential Geometry (Pre: MAT 2130; Co: MAT 2240) MAT 4220 (3) Intro to Real Analysis II (Pre: MAT 3220) MAT 4340 (3) Intro to Operations Research (Pre: MAT 2240; STT 3850; Sr s MAT 4420 (3) Dynamical Systems Theory (Pre: MAT 3130 or 3310) MAT 4590 (3) Adv Topics in Differential Equations (Pre: MAT 3130; Sr st) MAT 4710 (3) Intro to Topology (Pre: MAT 3220; St st) MAT 4720 (3) Abstract Algebra (Pre: MAT 3110; Sr st) MAT 4990 (3) Numerical Linear Algebra (Pre: MAT 4310; Sr. st) STT 4820 (3) Design & Analysis of Experiments (Pre: STT 3820; Sr st) STT 4830 (3) Linear Regression Models (Pre: MAT 2240; STT 3830; Sr. st) STT 4840 (3) Regression & Time Series Forec (Pre: MAT 2240; STT 3250, 38)	AND AND AND AND AND AND AND	MAT 4141 MAT 4221 MAT 4341 MAT 4421 MAT 4591 MAT 4711 MAT 4721 MAT 4991 STT 4821 STT 4841	(1) Differentia (1) Intro to Rea (1) Intro to Op (1) Dynamical (1) Adv Topics (1) Introductio (1) Abstract Al (1) Numerical (1) Design & A (1) Linear Regr	Linear Algebra [CAP] nalysis of Exper [CAP] ession Models [CAP]
).	Approved Electives: 9 hours in mathematical sciences to bring total hr (At least 3 hours in MAT if STT combination was chosen in Area C. Capstone)	s in ARE	A II to 65 hrs	_	
Ε.	Physical Sciences Concentration (17 hours) PHY 2010 (4) Intermediate Physics I (Pre: PHY 1103 or 115 PHY 2020 (4) Intermediate Physics II (Pre: PHY 1104/1151 PHY 3210 (3) Modern Physics I (Pre: PHY 1151 or Co: PHY 2 3 hours of approved electives** in physics at or above 2000 level	w/min gr 010)	ade C-, MAT 2130		
				* Must be approve	d by math sciences advisor.
	3 hours of approved electives** in physics or technology			widst be approve	a by math sciences advisor.

2 semester hours of free electives must be outside the major discipline.