**GENERAL** 

I.	GENERAL EDUCATION CURRICULUM
II.	MAJOR REQUIREMENTS (not including 4 s.h. counted in Area I, above)
A.	MAT 1110 (4) Calculus with Analytic Geometry I (Pre: MAT 1025 w/min grade C-) MAT 1120 (4) Calculus with Analytic Geometry II (Pre: MAT 1110 w/min grade C-) MAT 2110 (3) Techniques of Proof (Pre: MAT 1120)  MAT 2240 (3) Introduction to Linear Algebra (Pre: MAT 1120)  MAT 4510 Senior Honors
B.	MAT 2130 (4) Calculus with Analytic Geometry III (Pre: MAT 1120 w/min grade C-) MAT 3110 (3) Intro to Modern Algebra [WID] (Pre: RC 2001, MAT 2110 or 2510; Co: 2240) MAT 3220 (3) Intro to Real Analysis I [WID] (Pre: RC 2001, MAT 2110 or 2510)  Choose one: MAT 3130 (3) Intro to Differential Equations (Pre: MAT 1120) MAT 3310 (3) Discrete & Continuous Mathematical Models (Pre: MAT 1120; Co: 2240)  Choose one: STT 3250 (4) Fundamentals of Probability (Pre: MAT 2130)  STT 3250 (4) Statistical Data Analysis (Pow MAT 1140)
C.	STT 3850 (4) Statistical Data Analysis (Pre: MAT 1110)  Capstone Requirements (4 hours) Choose one 4-hour combination (courses to be taken in the same semester);  [CAP] is Capstone course: each has corequisite of first course in each pair below
	MAT 4010 (1-3) Current Topics in Mathematics AND MAT 4011 (1) Current Topics in Math [CAP]  MAT 4140 (3) Differential Geometry (Pre: MAT 2130; Co: MAT 2240) AND MAT 4141 (1) Differential Geometry [CAP]  MAT 4220 (3) Intro to Real Analysis II (Pre: MAT 3220) AND MAT 4221 (1) Intro to Real Analysis II [CAP]  MAT 4310 (3) Numerical Methods (Pre: MAT 2310) AND MAT 4311 (1) Numerical Methods [CAP]  MAT 4340 (3) Intro to Operations Research (Pre: MAT 2240, STT 3850; Sr st) AND MAT 4341 (1) Intro to Oper Research [CAP]  MAT 4420 (3) Dynamical Systems Theory (Pre: MAT 3130 or 3310) AND MAT 4421 (1) Dynamical Systems Theory [CAP]  MAT 4590 (3) Adv Topics in Differential Equations (Pre: MAT 3130; Sr st) AND MAT 4591 (1) Adv Topics in Diff Equations [CAP]  MAT 4710 (3) Intro to Topology (Pre: MAT 3220; St st) AND MAT 4711 (1) Introduction to Topology [CAP]  MAT 4720 (3) Abstract Algebra (Pre: MAT 3110; Sr st) AND MAT 4721 (1) Abstract Algebra [CAP]  MAT 4990 (3) Numerical Linear Algebra (Pre: MAT 4310; Sr. st) AND MAT 4991 (1) Numerical Linear Algebra [CAP]  STT 4820 (3) Design & Analysis of Experiments (Pre: STT 3820; Sr st) AND STT 4821 (1) Design & Analysis of Exper [CAP]  STT 4830 (3) Linear Regression Models (Pre: MAT 2240; STT 3830; Sr. st) AND STT 4831 (1) Linear Regression Models [CAP]  STT 4840 (3) Regression & Time Series Forec (Pre: MAT 2240; STT 3250, 3850) AND STT 4841 (1) Regression & Time Series Forec [CAP]
D.	Approved Major Electives: 9 hours in mathematical sciences to bring total hrs in AREA II to 65 hrs  3 hours at the 4000 level  Remaining 6 hours: (At least 3 hours in MAT if STT combination was chosen in Area C. Capstone)
	A Career Support Concentration (at least 21 hours, which must be approved by the mathematical sciences advisor)
111.	MINOR (optional)