

**NORTHERN ARIZONA UNIVERSITY
 BACHELOR OF SCIENCE IN MATHEMATICS - EXTENDED MAJOR
 DEGREE PLAN
 2001-2003**

Note: The degree plan used by the students must be the one in effect at the time the student entered the specific major program, or a later version, regardless of when the student entered NAU.

Student Name _____ SS# _____
 Advisor Name _____ Advisor Code _____
 Date Admitted to Program (requires C or better in MAT 136) _____

STUDENTS MUST CONFER WITH THEIR ASSIGNED ADVISORS AT LEAST ONCE EACH TERM TO ENSURE PROPER COURSE SELECTION AND FULFILLMENT OF REQUIREMENTS.

PART ONE: LIBERAL STUDIES CURRICULUM

I. UC 101 UNIVERSITY COLLOQUIUM (3 hours) Semester Taken _____

II. FOUNDATION STUDIES (4 hours)

A. English (4 hours)

Dept.	Course No.	Title	Hours	Sem Taken
Eng	105	Critical Reading	4	_____

B. Mathematics

Please note that the usual 35 hours for Liberal Studies are reduced to 32 hours for Mathematics Majors, who are exempted from the three-hour Mathematics foundation requirement.

III. DISTRIBUTIONAL REQUIREMENT (25 hours)

A. Lab Science (4 hours)

D. Aesthetic and Humanistic Inquiry (3-6 hours)

B. Science and Applied Science (3-6 hours)

E. Cultural Understanding (3-6 hours)

C. Social and Political Worlds (3-6 hours)

IV. TOTAL HOURS (must be at least 32) _____

PART TWO: MAJOR REQUIREMENTS

I. CORE: (29 HOURS)

Dept.	Course No.	Title	Hours	Sem. Taken	Dept.	Course No.	Title	Hours	Sem. Taken
MAT	136	Calculus I	4	_____	MAT	320W	Foundations of Math	3	_____
MAT	137	Calculus II	4	_____	MAT	411	Intro to Abstract Alg	3	_____
MAT	238	Calculus III	3	_____	MAT	431	Introduction to Analysis	3	_____
MAT	239	Differential Equations	3	_____	STA	473	Intro to Math Stat I	3	_____
MAT	316	Intro to Linear Alg.	3	_____					

II. EMPHASIS: Check one emphasis and complete courses listed.

A. Actuarial Science (27 hours) _____				B. Applied Mathematics (21 hours) _____					
MAT	226	Discrete Mathematics	3	_____	MAT	226	Discrete Mathematics	3	_____
MAT	362	Intro to Num. Analysis	3	_____	MAT	362	Intro to Num. Analysis	3	_____
MAT	467	Operations Research	3	_____	MAT	368	Mathematical Modeling	3	_____
MAT	480	Math Fin Models	3	_____	MAT	461	Partial Differential Eq's.	3	_____
STA	270	Applied Statistics	3	_____	MAT	467	Operations Research	3	_____
STA	471	Regression Theory	3	_____	MAT	480	Capstone	3	_____
STA	474	Intro to Math Stat II	3	_____	One of	MAT 412, 432, or STA 474			_____
ACC	255	Prin Acct/Financial	3	_____				3	_____
ACC	256	Prin Acct/Managerial	3	_____					
C. Mathematics (9 hours) _____				D. Statistics (15 hours) _____					
Two of	MAT 412, 432, 441 or STA 474			MAT	270	Applied Statistics	3	_____	
_____	_____		3	_____	STA	371	Intermediate Statistics	3	_____
_____	_____		3	_____	STA	471	Regression Analysis	3	_____
One of	MAT 226, 318, 365, or 442			STA	472	Nonparametric Statistics	3	_____	
MAT	_____		3	_____	STA	474	Intro to Math Stat II	3	_____

III. ADDITIONAL MATHEMATICS/STATISTICS: Additional mathematics or statistics courses from MAT 226, MAT 239, and those numbered 300 and above (except MAT 301, 308, 401, 402, 420, 430, or 440)

_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL MATHEMATICS/STATISTICS HOURS (53 OR MORE) _____

PART THREE: COMPUTER LANGUAGE REQUIREMENT (3 HOURS)

One of CSE 122, 123, 126 _____ 3 _____

PART FOUR: ELECTIVES

_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL ELECTIVE HOURS _____

TOTAL HOURS (minimum of 120) _____

Verified: _____
 Advisor Name/Signature _____ Chair Name/Signature _____

A GRADE OF "C" OR HIGHER IS REQUIRED IN EACH MATHEMATICS/STATISTICS COURSE APPLIED TOWARD THIS MAJOR.