

**NORTHERN ARIZONA UNIVERSITY
BACHELOR OF SCIENCE IN MATHEMATICS - EXTENDED MAJOR
DEGREE PLAN
2003-2004**

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 _____ NAU ID# _____
 Advisor Name _____
 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)

Course	Dept.	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. REQUIRED CORE: (29 HOURS)

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

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

A. Actuarial Science (27 hours)				Sem.	B. Applied Mathematics (21 hours)				Sem.
Dept.	No.	Title	Hours	Taken	Dept.	No.	Title	Hours	Taken
MAT	226	Discrete Mathematics	3	_____	MAT	226	Discrete Mathematics	3	_____
MAT	362	Intro to Num. Analysis	4	_____	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		_____
STA	474C	Intro to Math Stat II	3	_____	One of MAT 412C, 432C, STA 474C				
ACC	255	Prin Acct/Financial	3	_____				3	_____
ACC	256	Prin Acct/Managerial	3	_____					_____

C. Mathematics (9 hours)				Sem.	D. Statistics (15 hours)				Sem.
Dept.	No.	Title	Hours	Taken	Dept.	No.	Title	Hours	Taken
Two of MAT 412C, 432C, 441, STA 474C					MAT	270	Applied Statistics	3	_____
MAT	_____	_____	3	_____	STA	371	Intermediate Statistics	3	_____
MAT	_____	_____	3	_____	STA	471	Regression Analysis	3	_____
One of MAT 226, 318, 365, or 442C					STA	472	Nonparametric Statistics	3	_____
MAT	_____	_____	3	_____	STA	474C	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, 302, 308, 401, 402, 420, 430, or 440)

Dept.	No.	Title	Hours	Taken
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

TOTAL MATHEMATICS/STATISTICS HOURS (53 OR MORE) _____

PART THREE: COMPUTER LANGUAGE REQUIREMENT (3 HOURS)

One of CSE 122, 123, 126:

CSE	_____	_____	_____	_____
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PART FOUR: ELECTIVES

Dept.	No.	Title	Hours	Taken
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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.