

# BACHELOR OF ARTS MATHEMATICS MAJOR

## FERRIS STATE UNIVERSITY/ALPENA COMMUNITY COLLEGE TRANSFER PLAN

**MAJOR ADVISOR: Mr. Robert McCullough**

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Admission requirement for transfer students:

1. Transfer students with fewer than 12 transferable credits at the time of application, must meet the current freshman admission criteria. The application will be considered for admission based upon the high school academic record.
2. Transfer students with 12 or more transferable credits at the time of application (including both English and Algebra) must have a minimum CGPA of 2.0. Students without an English and Algebra class will be required to submit an ACT/SAT score.

Graduation Requirements:

1. Minimum 2.0 CUMULATIVE grade average in all courses.
2. No grade lower than a "C" in course work included in the "major" 15 credits must be FSU credits; 15 credits must be 300/400 level.
3. Must complete an FSU approved academic minor, 50% must be FSU coursework.
4. 120 Minimum semester credits including general education requirements.
5. Residency requirement: 30 minimum FSU semester credits.
6. Minimum of 40 credits numbered 300 or higher (excluding community college credits).

REQUIRED		COURSE TITLE – FOR PREREQUISITES, SEE FSU OR ALPENA CATALOG COURSE DESCRIPTIONS	FSU SEM HRS	ALPENA EQUIVALENT	GRADE
<b>Major: Minimum 34-35 credits. No grade lower than "C" (2.0) allowed to apply toward this major</b>					
CPSC	200 or	Object Oriented Programming	4 or	MTH 221	
CPSC	244	Scientific Programming with Fortran	3	MTH220	
MATH	220	Analytical Geometry & Calculus 1	5	MTH 131	
MATH	230	Analytical Geometry & Calculus 2	5	MTH 132	
MATH	320	Analytical Geometry & Calculus 3	3	MTH 231	
MATH	322	Linear Algebra	3		
MATH	420	Introduction to Abstract Algebra	3		
MATH	430	Advanced Calculus	3		
<b>Electives: Choose 9 credits at 300 or 400 level from the following:</b>					
MATH	310	Linear Models in Statistics	3		
MATH	314	Probability	3		
MATH	324	Fund. Concepts in Math	3		
MATH	325	College Geometry	3		
MATH	327	Theory of Numbers	3		
MATH	328	Discrete Structures	3		
MATH	330	Differential Equations	3	MTH 232	
MATH	340	Numerical Analysis	3		
MATH	360	Operations Research	3		
MATH	380	Applied Analysis	3		
MATH	414	Mathematical Statistics 1	3		
MATH	416	Mathematical Statistics 2	3		
MATH	435	Introduction to Complex Variables	3		
MATH	440	Mathematics Modeling			
Academic Minor: An academic minor of 18-24 credits is required, any approved minor is allowed (except teacher education minors). Students should consult their major advisor if uncertain as to an appropriate minor to select. For graduation, both the academic minor clearance form and this major audit form must be attached to the graduation application.					
<b>Bachelor of Arts Core: 1) Proficiency in a foreign language through the 201 level (third semester), 2) a COMM course not selected from the general education list of COMM courses below.</b>					
COMM					
		Foreign Language 101			
		Foreign Language 102			
		Foreign Language 201			

General Education: All Students must complete the General education associated with this degree. Some courses listed in the major program requirements also satisfy general education requirements. Listed below are general education requirements not satisfied in the programs major area.

FSU General Education requirements are available on the FSU web site at:

<http://www.ferris.edu/htmls/academics/gened/gened.html>.

Listings of FSU courses that will satisfy these requirements are available on the FSU web site at:

<http://www.ferris.edu/htmls/academics/gened/courses.html>.

Equivalencies for FSU courses at your school may be found on the FSU web site at:

<http://www.ferris.edu/admissions/Transfer/WebPages/homepage1.cfm>

<b>Remaining General Education Requirements not fulfilled in the major: minimum 37 credits</b>					
ENGL	150	English 1	3	ENG 111 or 121	
ENGL	250	English 2	3	ENG 112 or 122	
Choose 1:		ENGL 311 Advanced Technical Writing	3		
		ENGL 321 Advanced Composition			
		ENGL 323 Proposal Writing			
Choose 1:		COMM 105 Interpersonal Communication	3	SPE 121	
		COMM 121 Fundamentals of Public Speaking		SPE 123	
		COMM 221 Small Group Decision Making			
		Scientific Understanding with lab	3 – 4		
		Scientific Understanding	3 – 4		
		Cultural Enrichment Elective	3		
		Cultural Enrichment Elective	3		
		Cultural Enrichment Elective – 200 level or higher	3		
		Social Awareness Elective – Foundation	3		
		Social Awareness Elective – Second Subject Area	3		
		Social Awareness Elective – 200 level or higher	3		
		Race/Ethnicity/Gender Elective – to be taken as one of the Cultural Enrichment or Social Awareness courses			
		Global Consciousness Elective – to be taken as one of the Cultural Enrichment or Social Awareness courses			
<b>ELECTIVES to the minimum 120 required for this degree</b>					