

# BACHELOR OF ARTS MATHEMATICS MAJOR

## FERRIS STATE UNIVERSITY/HENRY FORD COMMUNITY COLLEGE TRANSFER PLAN

**MAJOR ADVISOR: Mr. Robert McCullough**

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Admission requirement for transfer students:

1. Transfer students with fewer than 15 transferable credits at the time of application must demonstrate first year student eligibility.
2. Transfer students with 15 or more transferable credits at the time of application must have a minimum CGPA of 2.0

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 HENRY FORD CATALOG COURSE DESCRIPTIONS | FSU SEM HRS | HENRY FORD 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        |                       |       |
| CPSC   | 244    | Scientific Programming with Fortran   | 3           |                       |       |
| MATH   | 220    | Analytical Geometry & Calculus 1  | 5           | MATH180               |       |
| MATH   | 230    | Analytical Geometry & Calculus 2  | 5           | MATH183               |       |
| MATH   | 320    | Analytical Geometry & Calculus 3  | 3           | MATH280               |       |
| MATH   | 322    | Linear Algebra  | 3           | MATH283               |       |
| 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           | MATH275               |       |
| MATH   | 330    | Differential Equations  | 3           | MATH289               |       |
| 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     | ENG131 or<br>ENG131H |  |  |
| ENGL   | 250 | English 2  | 3     | ENG132 or<br>ENG132H |  |  |
| Choose 1:  |     | ENGL 311 Advanced Technical Writing  | 3     |                      |  |  |
|  |     | ENGL 321 Advanced Composition  |       |                      |  |  |
|  |     | ENGL 323 Proposal Writing  |       |                      |  |  |
| Choose 1:  |     | COMM 105 Interpersonal Communication   | 3     | SPC145<br>SPC131     |  |  |
|  |     | COMM 121 Fundamentals of Public Speaking   |       |                      |  |  |
|  |     | 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>                                   |     |  |       |                      |  |  |
|  |     |  |       |                      |  |  |
|  |     |  |       |                      |  |  |
|  |     |  |       |                      |  |  |