

**MAJOR: MATHEMATICS
EFFECTIVE FALL 2019**

NAME _____ E-NUMBER _____ CATALOG _____

I. CHECKLIST OF GRADUATION REQUIREMENTS

- | | |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|
| _____ 120 Semester Hours (SH) | _____ 42 SH in residence at EIU |
| _____ 2.00 Cumulative GPA | _____ 32 SH junior-senior residency at EIU |
| _____ 2.00 Major GPA | _____ 12 SH senior residency at EIU |
| _____ 40 SH of upper division courses (3000+) | _____ Cultural Diversity (designated with * in catalog) |
| _____ Senior Seminar (after completion of 75 SH) | |
| _____ Application for degree. Review requirements by first semester of junior year. | |

New freshmen entering in Fall 2000 must successfully complete the Electronic Writing Portfolio by creating and submitting a portfolio of four writing samples written under guidance of faculty members in writing-centered or writing-intensive courses.

EWP I _____ EWP II _____ EWP III _____

II. GENERAL EDUCATION REQUIREMENTS – Students transferring to EIU who have received an AA or AS degree in a baccalaureate-oriented program from an Illinois public community college, Lincoln College, or Springfield College in Illinois or who completed the IAI General Education Core Curriculum are considered as having met lower division general education requirements. *EXCEPT*, they must complete a Senior Seminar and must meet the Foreign Language Requirement, either by exemption or with course work.

| | | | | |
|--------------|-----------------|----------------|-----------|------------------|
| <u>Grade</u> | <u>Semester</u> | <u>Course#</u> | <u>SH</u> | <u>Component</u> |
|--------------|-----------------|----------------|-----------|------------------|

HUMANITIES AND FINE ARTS (9 SH – at least one course in fine arts and one in humanities; courses must represent at least two different disciplines)

| | | | | |
|-------|-------|-------|-------|-------------------------|
| _____ | _____ | _____ | _____ | Fine Arts |
| _____ | _____ | _____ | _____ | Humanities |
| _____ | _____ | _____ | _____ | Fine Arts or Humanities |

FOREIGN LANGUAGE (0–8 SH) Exempt? Yes No (Two years in a single foreign language in high school with an average grade of C or better.)

| | | | | |
|-------|-------|-------|-------|--|
| _____ | _____ | _____ | _____ | |
| _____ | _____ | _____ | _____ | |

SOCIAL AND BEHAVIORAL SCIENCES (9 SH from two different disciplines)

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|-------|-------|-------|-------|--|
| _____ | _____ | _____ | _____ | |
| _____ | _____ | _____ | _____ | |
| _____ | _____ | _____ | _____ | |

LANGUAGE (9 SH; grade of C or better required)

| | | | | |
|-------|-------|-----------|------|--------------------------------------|
| _____ | _____ | ENG 1001G | 3 SH | Composition and Language |
| _____ | _____ | ENG 1002G | 3 SH | Composition and Literature |
| _____ | _____ | CMN 1310G | 3 SH | Introduction to Speech Communication |

MATHEMATICS (3 SH)

| | | | | |
|-------|-------|-------|-------|--|
| _____ | _____ | _____ | _____ | |
|-------|-------|-------|-------|--|

SCIENTIFIC AWARENESS (7 SH)

| | | | | |
|-------|-------|-------|-------|--------------------|
| _____ | _____ | _____ | _____ | Physical Science |
| _____ | _____ | _____ | _____ | Biological Science |
| _____ | _____ | _____ | _____ | Lab |

SENIOR SEMINAR (3 SH)

| | | | | |
|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ |
|-------|-------|-------|-------|-------|

TAKE COURSES IN A LOGICAL SEQUENCE WITH THE PROPER PREREQUISITES COMPLETED. LOOK CAREFULLY AT THE SEMESTERS IN WHICH COURSES ARE TAUGHT SO DEGREE REQUIREMENTS CAN BE COMPLETED ON SCHEDULE (Semester(s) offered subject to change)

Required Courses

| <u>Grade</u> | <u>Semester</u> | | | | <u>Prereq.</u> |
|--------------|-----------------|-----------|-------------|-----------------------|--------------------|
| _____ | _____ | MAT 1441G | (5 SH; F,S) | Calculus I | |
| _____ | _____ | MAT 2442 | (5 SH; F,S) | Calculus II | MAT 1441 |
| _____ | _____ | MAT 2443 | (4 SH; F,S) | Calculus III | MAT 2442 |
| _____ | _____ | CSM 2170 | (4 SH; F,S) | Computer Science I | MAT 1441 (co-req) |
| _____ | _____ | MAT 2800 | (3 SH; F) | Foundations | MAT 1441 (co-req) |
| _____ | _____ | MAT 3501 | (3 SH; S) | Diff Eq I | MAT 2442 |
| _____ | _____ | MAT 3701 | (3 SH; F) | Prob & Stat I | MAT 2442 |
| _____ | _____ | MAT 3530 | (4 SH; S) | Abstract Algebra | MAT 2800 |
| _____ | _____ | MAT 4760 | (4 SH; F) | Linear Algebra | MAT 3530 |
| _____ | _____ | MAT 4700 | (2 SH; S) | Seminar | MAT 3530, MAT 4760 |
| _____ | _____ | MAT 4855 | (3 SH; S) | Intro to Topology | MAT 3530 |
| _____ | _____ | MAT 4860 | (4 SH; F) | Mathematical Analysis | MAT 2443, MAT 3530 |

Electives: Nine additional semester hours of mathematics or computer science courses are needed, with at least three semester hours being at the 4000+ level. Note that some courses may have additional prerequisites beyond the require core.

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| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

Additional Elective courses in any field to complete 120 SH graduation requirement:

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| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |