Secondary Education - Mathematics, B.S.
College of Education

General Education Curriculum (GEC) Requirements

"At - a - Glance"

(Full GEC requirements can be found on pages 48-49)

The GEC contains 24 Learning Objectives organized under five General Education Learning Outcomes (GLOs). To complete the GEC, select at least one course for each objective. Many courses will meet more than one objective, but a minimum of 40 distinct hours in the GEC is required.

1. *Effective Written & Oral Communication*

a. Eng 100, 101 . . . . _____
b. Eng 121 . . . . _____
c. Fys 100, 150 . . . . _____
d. Eng 100, 101 . . . . _____

2. *Critical & Creative Thinking*

a. Eco 100, Phi 151, 152, Psy 100 . . . . _____
b. Eco 100, Phi 151, 152, Pos 101, Psy 100, Soc 100 . . . . _____
c. Eng 121 . . . . _____
d. Art 103, 108, 120, 121, Eng 211 . . . . _____
e. Art 107, Art/Eng 116, Eng 151 . . . . _____
f. Eng 121 . . . . _____

3. *Quantitative & Scientific Reasoning*

a. Mat 101, 117, 121, 131, 140, 201 or higher, Phy 153,154 . . . _____
b. Mat 101, 117, 121, 131, 140, 201 or higher, Phy 153,154 . . . _____
c. Bio 103, 104, 105, 112, 260, 261, 262, 300, Hpr 101 . . . . . . _____
d. Chy 111, 112,122, 221, 222, Env 110, 120, 125, 201,
   301, 302, 308, Gey 112, 114, Phy 153, 154 . . . . _____
e. Bio 105, 112, 113, 260, 261, 262, Chy 111, 112, 122,
   221, 222, Env 308, Gey 112, 114, Phy 153, 154 . . . . _____

4. *Information Literacy*

a. Fys 100, 150 . . . . _____
b. Eng 121 . . . . _____
c. Phi 151, 152, Swk 202 . . . . _____

5. *Global Consciousness & Intercultural Awareness*

a. Ant 100, 110, Geo 100, Soc 100, Swk 305, Wab 110,
   Wst 101 . . . . _____
b. Hty 115, 116, 161, 162 . . . . _____
c. Asl 101, Chi 101, 102, Fre 101, 102, 201, 202, Rus 101,
   Spa 101, 102, Wab 100, 105 . . . . _____
d. Phi 151, 152, Pos 211, Swk 202 . . . . _____
e. Pos 101, 211, 231 . . . . _____

PROFESSIONAL EDUCATION – 36 CREDIT HOURS

Edu 150 Exploring Education in Contemporary America	3
Edu 200 The Learner and the Learning Process	3
Edu 261 Educational Technology in the Classroom	3
Edu 310 The Teaching Process	3
Edu 353 Reading and Writing in the Content Area	3
Edu 368 Teaching Mathematics in the Secondary School	3
Edu 387 Teaching Students with Special Needs	3
Edu 395 Internship in Teacher Education	3
Edu 495 Student Teaching	12

MATHEMATICS CONCENTRATION – 36 CREDIT HOURS

Cos 105 Computer Programming	3
Mat 132 Calculus II	4
Mat 201 Probability and Statistics I	3
Mat 202 Probability and Statistics II	3
Mat 251 Foundations of Mathematics	3
Mat 274 Linear Algebra	3
Mat 312 Geometric Structures	4

Select:

Mat 131 Calculus I - *must be taken as a General Education requirement for this major.*	4

Select FOUR of the following for a minimum of 13 credit hours:

Mat 231 Calculus III	4
Mat 233 Ordinary Differential Equations	4
Mat 321 Topics in Algebra	3
Mat 335 Topics in Analysis	3
Mat 435 Real Analysis	3

SELECT GENERAL ELECTIVES TO BRING TOTAL EARNED HOURS TO 120

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_____
_____
_____
_____

Total credits required for degree: 120
Minimum cumulative GPA for graduation: 2.50
Cumulative GPA in major and concentration: 2.50
Cumulative GPA professional education sequence: 2.50
Minimum cumulative GPA for student teaching: 2.50