BEREA COLLEGE
2009 – 2010 CURRICULUM GUIDE (revised 10/27/09)

B.A. in MATHEMATICS

NOTE: This guide is subject to change and represents actions approved by Faculty to date. Please refer often to the *2009-2010 Online Catalog & Student Handbook (www.berea.edu/cataloghandbook),* which will be updated with the most current information.

GENERAL EDUCATION PROGRAM

Core Courses	Term	Credit
MAT 010: Prealgebra[a]	_____	NC
MAT 011: Elementary Algebra I[a]	_____	NC
MAT 012: Elementary Algebra II[a]	_____	NC
GSTR 110: Writing Sem. I: Critical Thinking in the Liberal Arts	_____	1
GSTR 210: Writing Sem. II: Identity and Diversity in the United States	_____	1
GSTR 310: Und. of Christianity	_____	1
GSTR 332: Scien. Knowl. & Inquiry	_____	1
GSTR 410: Sr. Sem. in Cont. Global Issues	_____	1

Lifetime Health & Fitness: PEH 100 & Phys. Activity

PEH 100: Introduction to Lifetime Wellness _____ .50
(if swimming proficiency test not passed, one of next two courses must be PED 200)
PED 2___: _____ _____ .25
PED 2___: _____ _____ .25

Practical Reasoning Across the Curriculum (PR & PRQ)

Two courses—at least one firmly grounded in math or statistics (PRQ); the other can be an approved practical reasoning (PR) course or another PRQ course.

_____ ____: _____ _____ 1
_____ ____: _____ _____ 1

Perspectives—Six Areas Required

Students will satisfy each of the six Perspective areas by taking or waiving a course, or through an approved experience. Individual courses may be approved to satisfy more than one Perspective, but no single course may satisfy more than two Perspective areas.

1. Arts _____ _____ _____
2. Social Science _____ _____ _____
3. Western History _____ _____ _____
4. Religion _____ _____ _____
5. Afr. Amer., Appal., Women's _____ _____ _____
6. International (two courses either in area 6A or area 6B):
   - A) Same Non-English Language _____ _____ _____
     Same Non-English Language _____ _____ _____
     (one course may be waived by placement exam)

   OR

   - B) World Culture (Non-western) _____ _____ _____
     World Culture (Western/non-western)____ _____ _____

Active Learning Experience (ALE)

An approved experience, taken for credit or as noncredit.

_____ ____: _____ _____ _____

Writing Competency Requirement (thru Spring 2009)
(NOTE: Required for students entering in/before Spring 2009—not required for those entering in/after Fall 2009)

Students may satisfy this requirement by passing the Writing Competency Examination administered in Fall and Spring, or by successfully completing GST 150: College Composition *or ENG 104:* Advanced ESL.

_____ ____: _____ _____ _____

[a] May be waived on basis of test scores.

[b] May be waived by passing waiver test, but then an additional course above MAT 135 is recommended.

MAJOR COURSES

Core Courses	Term	Credit
A minimum of 8.25 MAT courses at or above 210 level, plus one required CSC course:		
MAT 135: Calculus I (or waiver)[b]	_____	___
MAT 214: Linear Algebra	_____	1
MAT 225: Calculus II (or waiver)	_____	___
MAT 315: Fund. Concepts of Mathematics	_____	1
MAT 330: Calculus III	_____	1

Capstone Course

MAT 492: Senior Seminar (Capstone) _____ .25

Distribution Courses (Required; count inside the major)

At least one MAT course must be chosen from each of the following four groups; courses may satisfy more than one category:

a) Theoretical: MAT 321, 432, 434, or 436
b) Applied: MAT 311, 312, 433, or 438
c) Analysis: MAT 433, 434, 435, or 437
d) Nonanalysis: MAT 311, 312, 321, 432, 436, or 438

a-MAT _____: _____ _____ 1
b-MAT _____: _____ _____ 1
c-MAT _____: _____ _____ 1
d-MAT _____: _____ _____ 1

Collateral Course Credit (Required; counts outside major)

One course credit chosen from the following:
CSC 125: Intro. to Computer Science **OR**
CSC 126: Intro. to Robotics **OR**
CSC 226: Intro. to Programming with C++ **OR**
CSC 236: Algorithms, Objects & Data Abstrac. _____ 1

Senior Level Requirement (count inside the major)

At least two course credits must be taken from MAT 432, 433, 434, 435, 436, 437, and 438. Each of these courses also may be used to satisfy the distribution requirements described above.

MAT _____: _____ _____ 1
MAT _____: _____ _____ 1

SHORT TERMS

Dept. & No.	Title	Term	Credit
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

ELECTIVES (count in 21 credits outside the major, unless course is in MAT rubric)

Dept. & No.	Title	Term	Credit
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____