BEREA COLLEGE
2009 - 2010 CURRICULUM GUIDE (revised 10/29/09)

B.A. in COMPUTER AND INFORMATION SCIENCE

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] In order for CSC 495, URG 010, or UGR 020 to meet the capstone requirement, it must have been approved for this purpose by the Department.

MAJOR COURSES

Core Courses	Term	Credit
CSC 226: Intro to Programming with C++	_____	1
CSC 236: Algorithms, Objects, Data Abstrac.	_____	1
CSC 435: Computer Organization	_____	1
TEC 130: Engineering Graphics	_____	1
TEC 265: Electrical Fundamentals	_____	1

Capstone Course or Experience (counts inside the major)

Completion of one (1) of the following courses:

CSC 495: Internship[b] _____ **OR**
UGR 010: Undergraduate Research (URCPP)[b] **OR**
UGR 020: Undergraduate Research (non-URCPP)[b] **OR**
CSC 492: Senior Seminar _____ _____ __

Courses (Required; count inside the major)

Four (4) additional course credits, as described; each may only be used to satisfy one credit in this major:

1) Two additional CSC course credits selected from CSC 303, 325, 330, 386, 433, 440, and 486
   CSC ____: _____ _____ 1
   CSC ____: _____ _____ 1
2) The two remaining course credits selected from: CSC 100-499, TEC 180, 330, 382, 455, 460, and SENS 320.
   _____ ____: _____ _____ 1
   _____ ____: _____ _____ 1

Collateral Course (Required; counts outside the major)

One course chosen from the following:

MAT 105: Intro to Discrete Mathematics **OR**
MAT 312: Operations Research ____ _____ 1

SHORT TERMS

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

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

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

NOTE: The College also offers this major with a Concentration in Computer Science. Please see separate Curriculum Guide or the *Catalog & Student Handbook* for more information.