BEREA COLLEGE
2010 - 2011 CURRICULUM GUIDE (revised 8/20/10)

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 *2010-2011 Online Catalog & Student Handbook (www.berea.edu/cataloghandbook),* which will be updated with the most current information.

GENERAL EDUCATION PROGRAM

NOTE: No single college course transferred into Berea can meet more than one General Education requirement.

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[b]	_____	___
GSTR 210: Writing Sem. II: Identity and Diversity in the United States	_____	1
GSTR 310: Understandings of Christianity	_____	1
GSTR 410: Sr. Sem. in Cont. Global Issues	_____	1

Scientific Knowledge and Inquiry

GSTR 332: Scientific Knowledge & Inquiry _____ ___

OR

Two approved science courses, one of which must be an approved lab course. At this time, only the following courses have been approved to meet this alternative (all of which meet the lab course stipulation): ANR 110, 130, BIO 100, BIO 101, 110, CHM 113, 131, 134, PHY 111, 217, or 315

_____ ____: _____ _____ ___
_____ ____: _____ _____ ___

Lifetime Health & Fitness: PEH 100 & Phys. Activity

PEH 100: Introduction to Lifetime Wellness _____ .50
(if swimming proficiency test not passed, take 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 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.

_____ ____: _____ _____ _____

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

[b] Transfer students might waive GSTR 110 if they took College Composition as a degree-seeking student at another college AND earned a grade of B or higher.

MAJOR COURSES

Core Courses	Term	Credit
CSC 226: Intro to Programming with C++	_____	1
CSC 236: Algorithms, Objects, Data Abstr.	_____	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[c] _____ **OR**
UGR 010: Undergraduate Research (URCPP)[c] **OR**
UGR 020: Undergraduate Research (non-URCPP)[c] **OR**
CSC 493: Senior Projects_____ _____ ___[d]

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

ELECTIVES (count in 20 credits outside the major, unless course is in CSC rubric)

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

[c] 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.

[d] CSC 495 can be 1-3 credits; UGR 010 or UGR 020 are noncredit courses; and CSC 493 is a .5 credit course.

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.