

## Example Curriculum Map: Computer Science and Computer Information Systems at Meredith

### CSC and CIS GOALS AND OBJECTIVES

**Goal 1:** A student who majors in CSC or CIS will develop a broad understanding of technology and its applications.

- 1.1 Students will display a broad understanding of Information Management (IM).
- 1.2 Students will understand computing in a networked environment (NC).
- 1.3 Students will understand various aspects of programming languages (PL).

**Goal 2:** A student who majors in CSC or CIS will demonstrate strong analytical and critical thinking skills.

- 2.1 Students will design and implement technology solutions to information problems.

**Goal 3:** A student who majors in CSC or CIS will demonstrate interpersonal communication and team skills and strong ethical principles.

- 3.1 Students will demonstrate an understanding of social and professional issues of computing (SP).
- 3.2 Students will present projects comfortably both in writing and orally using proper terminology and concepts.

**Goal 4:** A student who majors in CSC or CIS will design and implement programming solutions.

- 4.1 Students will demonstrate programming fundamentals (PF).
- 4.2 Students will incorporate practices of Human Computer Interaction (HC) and Graphics and Visual Computing (GV) in the development of their programs.
- 4.3 Students will employ good software engineering principles (SE).

**Goal 5:** (CSC only) A student who majors in CSC will learn to handle details of computer operations, including data structures, algorithms, machine architecture, operating systems, and complex numerical calculations.

- 5.1 Students will be able to select appropriate discrete structures (DS) and manipulate them with appropriate algorithms (AL) to solve problems.
- 5.2 Students will be able to assemble and configure machines (AR) to fit a situation and able to use at least two operating systems (OS).
- 5.3 Students will manipulate data using Computational Science and Numerical Methods (CN).

**NOTE:** The mapping below of Computer Science and Computer Information Systems learning outcomes by objective to courses in the curriculum has been revised to match both the revisions in the majors and the consolidation of the goals completed in September 2008.

### MAPPING OF CSC AND CIS OBJECTIVES TO COURSES

Course Name	Course Number	Goal 1			Goal2	Goal 3		Goal 4			Goal 5 (CSC only)		
		1.1	1.2	1.3	2.1	3.1	3.2	4.1	4.2	4.3	5.1	5.2	5.3
Begin Prog	101			x				x					
XL	120			i									i
XL2	121			o									o
Access	140			x								x	
Web Page	156			x	x		x						
SAS	160			o									
Foundations	203	x											x
OOP	212			x				x	x				
Web Prog	230			x	x								
VB	240			o									
Discrete	262											s	
Research	299												
Data Struct	301			s				s				s	
Comp Org	311			s			s						s
MIS	312	i			i		i	i?					
Nets + OS	326		x										x
Graphics + Models	355			s					s				s
Ethics	370						x						
Soft Eng	407	x			x		x	x		x	x		
Seminar	420						x						
Thesis	498												
Research	499												

i -- required for CIS only (optional for CSC)

s -- CSC only

x -- both

o -- optional for both

Curriculum Mapping can specify whether or not the outcome is addressed in each course as in the example above or can specify how much the outcome is being addressed. Some examples of this are to specify two levels (e.g., surface vs. deep) or three levels (e.g., introduced, developed, mastered).