

Computing in Context: Intelligence and Security Informatics

Module Template

Author
Affiliation
Date

1. Module name
2. Scope
3. Learning objectives
4. Computing concepts and skills involved
 - Choose one or more from this list: social context, algorithms and problem solving, logic, data structure, programming, database and data modeling, graphics and visualization, knowledge representation and information retrieval, communications and networking, human-computer interaction, intellectual property rights, computer literacy, software engineering
5. Level of effort required (in-class and out-of-class time required for students)
6. Relationships with other modules (flow between modules)
7. Prerequisite knowledge/skills required (what the students need to know prior to beginning the module; completion optional; complete only if prerequisite knowledge/skills are *not* included in other modules)
8. Introductory remedial instruction (the body of knowledge to be taught for the prerequisite knowledge/skills required; completion optional)
9. Body of knowledge (theory + practice; an outline that could be used as the basis for class lectures)
10. Resources (required readings for students; additional suggested readings for instructor and students)
11. Exercises / Learning activities
12. Evaluation of learning objective achievement (graded exercises or assignments)
13. Glossary
14. Additional useful links
15. Contributors (authors of module, reviewers of module)

Template development was informed by the resources below:

[1] Yue-Ling Wong, Jennifer Burg, and Leah McCoy, "Integrated Digital Media Curriculum Development Project" Supported by the National Science Foundation under Grant No. DUE-0340969, from Jan 2004 -

Dec 2006. The project homepage URL is <http://digitalmedia.wfu.edu/project/digital-media-curriculum-development/textbased-index.html>

[2] Ze-Nian Li and Mark S. Drew, "Fundamentals of Multimedia" at <http://www.cs.sfu.ca/mmbook/>

[3] Multimedia Systems course website, Department of computer science at University of Victoria, British Columbia, Canada. URL: <http://www.csc.uvic.ca/courses/spring2004/csc/461-561.html>

[4] Wingyan Chung, Seungwon Yang, Edward Fox, Steven Sheetz "Integrating computational thinking into information systems and other curricula," Proceedings of the AIS SIG-ED IAIM 2010 Conference, St. Louis, MO, Dec. 2010.

[5] Edward Fox, Barbara Wildemuth, Jeffrey Pomerantz "Digital Libraries: Module template development: VT template + UNC template, August 27, 2007," http://curric.dlib.vt.edu/DLcurric_images/Template.2007-08-27.pdf.