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.