

Project Name:

SUNY Cortland BIO110-111 Lab
Website Project

Project Manager:

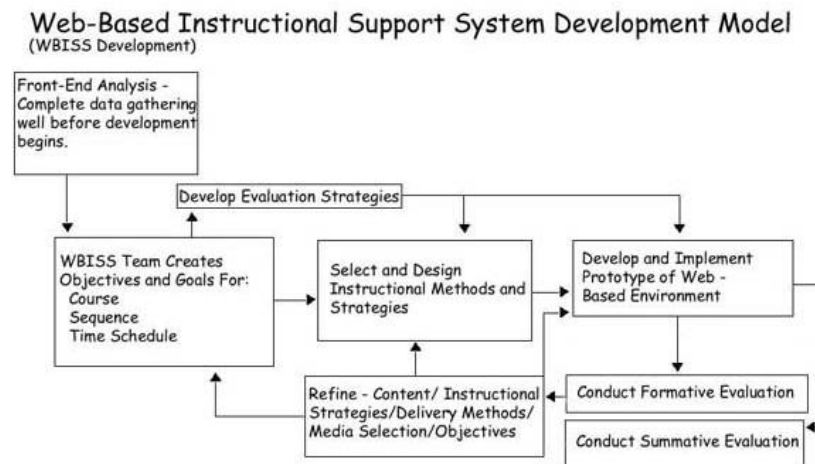
Aaron Fried

Problem/Opportunity:

The Biology department at SUNY Cortland offers an introductory Biology course for non-majors. The Course is designed to give students a sense of science literacy and provide them with a general education background in the sciences. Under the current educational system, Principles of Biology I (BIO110) is offered in the Fall semester while Principles of Biology II (BIO111) is offered in the Spring semester. Enrollment in the course ranges from about 500 to about 700 students a semester. Lab sections are offered in order to provide students a smaller learning setting (24 students or less). These lab sections are taught by adjunct instructors. There exists an opportunity at this time to create a permanent web resource that serves the needs and goals of both the students and the faculty involved with the course. Although a current version of this idea is already in existence, there is a need to implement a more thorough and lasting website based on common educational goals and better message design.

Goal:

Complete a lasting and comprehensive website that meets the needs of students and instructors in the BIO110 and BIO111 courses at SUNY Cortland.



WBISS Model (Fried, 2003; Updated 2005)

Objectives:

1. Apply the attached instructional design model in order to redesign the BIO110 – 111 Lab Website
 - A. Complete Front-End Analysis with ID team. (See attached FEA plan)
 - B. Design objectives and instructional strategies.

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- C. Develop instructional materials
- D. Implement website
- 2. Conduct a Formative Evaluation plan that will be enacted starting after the FEA.
- 3. Create a management plan and timeline for the completion of the project.

Current Design Team

- Aaron Fried, M.S., Instructional Designer (AF)
- Alaä Craddock, M.S., Biology Department Lab Coordinator (AC)
- Mary Beth Voltura, Ph.D., BIO110 Faculty Coordinator (MB)
- Brain Rivest, Ph.D., BIO111 Faculty Coordinator (BR)
- Elliot Mason, Ph.D., Biology Department Chair (EM)

Estimated Timeline

Dates	Task	Personnel
25 Jan – 18 Feb	Front-End Analysis	AF, AC, MB, BR
	<i>Sub Tasks</i>	
	• Needs Assessment	AF, AC, MB, BR
	• Learner Analysis	AF, AC
	• Technology/Media Analysis	AF
	• Situational Analysis	AF, AC
	• Objective Analysis	AF, AC, MB, BR
	• Extant Data Analysis	AF, AC
21 Feb – 4 Mar	1. Create Objectives for Website	AF, AC, MB, BR, EM
	2. Develop Formative Evaluation Strategies	AF
	3. Select Instructional Strategies	AF, AC, MB, BR
	4. Design Instruction and Website	AF
7 Mar – 18 Apr	1. Develop instructional materials	AF
	2. Develop website	AF
	3. Evaluate and revise materials	AF, AC, MB, BR
11 Mar – 13 May	Conduct Formative Evaluation of Website	AF, AC, MB, BR
	Revise Website as necessary	AF

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References:

Diamond, R.W. (1998). Designing and assessing courses and curricula, a practical guide. San Francisco: Jossey-Bass Publishers.

Fried, A.P. (2003) Prototyping of web-based instructional support systems for introductory college science environments. *Attached*

Fried, A.P. (2003) Front-end analysis plan for rapid prototyping of web-based instructional support systems for introductory college science environments. *Attached*

Gagné, R.M., Briggs, L.J., Wager, W.W. (1992). Principles of instructional design. 4th Ed. Belmont, CA: Wadsworth/Thomson Learning.

Lee, W.W., Owens, D.L. (2000). Multimedia-based instructional design. San Francisco: Jossey-Bass Publishers.

Morrison, G.R., Ross, S.M., Kemp, J.E. (2001). Designing effective instruction. 3rd Ed. New York: John Wiley & Sons.

Current Websites:

BIO110 – <http://web.cortland.edu/frieda/110.html>

BIO111 – <http://web.cortland.edu/frieda/111.html>

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