ED 555 Syllabus

Course:	ED 555 Software Development II
Prerequisites:	ED 517 and ED 550
Instructor:	Sharon Teabo, steabo@su.edu 107 Shingleton, 540-545-728
Course Purpose:	A continuation of ED 550.
Overview:	Students will each design a unit of instruction consisting of a minimum of three web based lessons/modules that incorporate progressively challenging critical thinking activities and that illustrate progressive levels of technology integration. Each student will read and evaluate assigned materials; be prepared to discuss the pedagogy and its application to computer-based or web-based learning, and complete a project that demonstrates the incorporation of pedagogy and high end digital media applications that utilize both static and interactive exercises.
Goals:	1. develop web-based modules 2. integrate digital media 3. design progressive technology use 4. integrate appropriate supporting materials
Performance Objectives:	1.1 Students will develop lesson plans and convert them into web-based modules. Each module will include goals, objectives, activities, and assessment components. Criteria for completion of each of the stated goals will include the quantity, quality, efficiency, durability, and condition for completion of each goal. The student will develop three modules into one instructional unit which utilizes the same format for each module and appropriate supporting technologies. 2.1 Students will integrate digital media with web-based delivery. Students will create appropriate digital media that will enhance the design of instruction and will include both static and interactive applications of the digital media. High end graphics software programs which have the capabilities of animation should be used. 3.1 Students will design progressive technology use for users of their modules. Levels of technology integration will be measured by a technology matrix and should include a minimum of one software program as a focus for instruction. The selected software program will be integrated in any three of the following ways: drills (or drill and practice), tutorials, simulations, instructional games, problem solving (user solves problem via application of technology), or CMC (computer mediated communication). 4.1 Students will design and include appropriate materials that will enhance the understanding of the selected software for the user. Supporting materials should include appropriate tutorials, e-workbooks, interactive training documents or programs,

and user assessment. All supporting materials are to be designed as an integral component of each unit of instruction.

Final Project: The final project will include the following components prepared for web-based delivery:

- introduction to unit of instruction (unit is composed of three modules)
- three modules of instruction
    - appropriate design of user interface
    - pedagogy
    - digital media applications (student-made graphics, animation, audio, video)
    - extensions
    - assessment
- supporting materials
    - student-made tutorials, e-workbooks, etc.
    - resources in the content area (print-, web-based)
    - site map
    - links to optional tutorials
    - FAQs
    - contact information
    - links to technical support of integrated and showcased technologies

All components should be word-processed and include any supporting materials such as worksheets, study guides, or presentation outlines. Work may be submitted on a thumbdrive or on a CD. A paper copy is also required.

Each student will present her/his project on the last day of class. The format of the presentation will be discussed in class. Students should prepare for the presentation as if s/he is presenting at a conference specific to the topic.

Required texts:
- Horton, S. (2000). *Web teaching guide: A practical guide to creating course web sites.* New Haven, CT: Yale University Press.
- Krug, S. (2000). Don't make me think: A common sense approach to web usability. Indianapolis, IN: New Riders. ISBN: 0-7897-2310-7
- Selected Readings and Responses: Assigned.

Evaluation:

☐ Daily discussions and written assignments based on assigned readings/ Attendance	10%
☐ Integration of student made digital media	30%
☐ Application and support of theories	10%
☐ Collaborative work	10%
☐ Working beyond basic expectations and assignment parameters	10%
☐ Final (class presentation, demonstration, and hardcopy)	30%

General Topics:
- designing an interface
  - navigation
    - designing banners, buttons, and other web components
  - themes
  - cascading style sheets
- digital media
  - file type
  - file size
  - editing and compression
  - appropriate integration
- authoring
  - storyboarding
  - scripting
    - advanced html
    - dynamic html
    - java scripts
  - creating tables
    - embedded tables
  - integration of student made
    - graphics
    - animation
    - audio
    - video
  - pedagogy
    - web-based instruction and various instructional taxonomies
    - activity structures
    - technology matrix
  - assessment
    - formative
    - summative

Academic Dishonesty: Academic dishonesty in any form, including plagiarism and giving or receiving unauthorized assistance in academic work, is prohibited. All students at Shenandoah University are responsible for upholding the Honor Code. The Honor Code is a system of conduct that reflects the core principles and values that the University has established regarding individual responsibility and matters involving honorable conduct. Violations of the Honor Code include the following general areas: cheating, plagiarism, falsification, tampering with records, forgery, and withholding information. It is every student's responsibility to report any violations that he or she observes to the professor or the Honor Court. Please see the Student Handbook for more specific information.

Disability: If you need course adaptations or accommodations because of a disability, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please notify me within the first two weeks of the semester by making an appointment with me as soon as possible. In addition, if you need classroom accommodations, please contact the Coordinator of 504/ADA Services.

Note: Late assignments will not be accepted.

Blackboard: The class will use a Blackboard course site provided by SU. All assignments, announcements, and updates will be posted to the course site.

Incomplete Grades: A grade of "I" is only an option under extreme circumstances, and only possible if the student has completed at least half of the semester's work and has a medical excuse. Should a problem arise, contact the instructor immediately.