ED 610 Syllabus

Course: ED 610 Digital Media and Educational Technology (Currently Multimedia Technology)

Prerequisites: ED 517, ED 550

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Overview: Designed specifically for educators, students will design supplemental materials for a unit of instruction within their content area consisting of a minimum of three totally web-based 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 focus on interactivity.

Goals:
1. develop web-based modules
2. create high end digital media
3. incorporate course management components
4. integrate instructional digital media
5. include asynchronous and synchronous components

Performance Objectives:

1.1 Students will develop a minimum of three totally web-based modules. Each module will include goals, objectives, activities, criteria for assessment, and all materials for web-based delivery. The student will develop three modules as one instructional unit with supporting materials and resources so that the unit extends beyond complementary or supplementary course delivery.

2.1 Students will integrate high end digital media with web-based delivery. Students will create appropriate high end 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 will be used.

3.1 Students will incorporate digital course management components such as e-mail filtering, online quizzes, e-grade books, and interactive worksheets. Students will also require the users of their unit of instruction to incorporate digital course management components.

4.1 Students will integrate appropriate content related instructional digital media that may include an informational or interactive movie clip or simulation. The informational digital media may also include appropriate audio or text information which complements the instructional media. Each student will complete a formative evaluation of this component, make adjustments based on the evaluations, and then incorporate the finished component into the final project.

5.1 Students will incorporate both asynchronous and synchronous communication components into their final project. Students will be expected to

demonstrate each type of communication component.

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

- introduction of instructor, background, contact information, etc.
- overview of the unit of instruction (unit is composed of three modules)
- three modules in student's content area
  - appropriate design of user interface
  - pedagogy
  - digital media applications (student made graphics, animation, audio, video)
  - extensions
  - assessment
  - asynchronous and synchronous communication
- 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 technologies
  - course management
    - e-mail
    - virtual chat
    - virtual bulletin board
    - office hours (online)
    - other

All components should be word-processed and include any supporting materials such as worksheets, study guides, or presentation outlines. Work may be submitted electronically or on a CD/DVD. 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:

- Alessi, S. M., & Trollip, S. R. (2001). *Multimedia for learning: Methods and development*. Third edition. Boston: Allyn and Bacon.
- Misovich, S. J., Katrichis, J., Demers, D., & Sanders, W. B. (2003). *An introduction to interactive multimedia*. Boston: Pearson Education.
- Selected Readings and Responses: Assigned.

Evaluation:

☐ Daily discussions and written assignments based on assigned readings/ Attendance	10%
☐ Integration of digital media, instructional media, management components, and integration communication components	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 web-based instruction

- designing web-based instruction
    - types
    - theories
    - user interface design
    - graphic "families"
    - applying a theme or story element
    - communication components
    - course management components
- digital media (computer-based; web-based
    - informational
    - instructional
    - interactive
- authoring
    - storyboarding
    - scripting
        - html
        - java script
        - visual basic
    - shockwave files
    - creating tables
        - embedded tables
    - integration of student-made technologies
        - student products
        - user products
- pedagogy
    - web-based instruction and various instructional taxonomies
    - activity structures
    - technology matrix
- assessment
    - formative
    - summative
    - user self-assessment

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.

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.

Attendance: Attendance is required. In order to receive credit for attending the class students must arrive on time, contribute to class topics, and stay for the duration of the class. Unexcused or multiple absences will result in grade cut(s).

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