

## Multimedia Authoring [3 credit hours]

This module will immerse the students in the use of a multimedia authoring program for the purpose of developing a computer-based instructional program. In addition to developing an instructional multimedia program, students will learn skills and attitudes associated with valuing the integration of computer-based construction contexts into traditional classroom environments. Product: Each student will create an instructional multimedia computer program which will incorporate a variety of digital image, video, and audio files within the instruction.

### Course Objectives:

- Conduct needs assessment for a multimedia instructional product and determines the general goal of the multimedia product.
- Develop a full instructional analysis which will guide the design and development of the multimedia project.
- Analyze learner characteristics, performance context, and learning context to provide rationale for design and developing the multimedia project.
- Create objectives for the goal of the multimedia project based on instructional analysis, learner analysis, and context analysis.
- Design and develop assessment instruments to evaluate learners' performance based on instructional objectives.
- Design instructional strategies to present instructional activities to help learner achieve the goal.
- Develop navigation maps and storyboards to plan the development of a multimedia instructional product.
- Create instructional materials and develop a multimedia instructional product guided by the multimedia instructional product development plan.
- Evaluate peers' multimedia projects based on project criteria, and report the findings in the required format.
- Given an appropriate authoring software, the student will demonstrate their understanding and ability to:
  - create and display various types of text
  - import, create, and display various types of graphics
  - create navigation
  - create interactive interface for a multimedia product
  - import, create, and display various types of sounds and videos
  - import, create, and display various types of animation
  - export multimedia file to a format that is deliverable to others