

Certificate in Teaching and Learning in Extension

Teaching and Learning in Extension is a self-study, online course available to K-State Research and Extension employees who are directly engaged in educational programming. As a result of funding received from an Epsilon Sigma Phi endowment grant, we are pleased to offer this opportunity to agents, specialists, and program assistants.

This program is offered by the Department of Agricultural Education and Communication at the University of Florida. We are pleased to be able to cooperate with UF on this project.

The following is an overview of the 12 modules that are designed to help you develop and enhance your teaching skills.

Module 1—How People Learn and Learning Styles

- Describe what we know about teaching and learning.
- Identify learner preferences.
- Utilize learning styles to their full potential.

Module 2—Principles of Teaching and Learning

- Identify five major categories of teaching and learning principles
- Identify principles of teaching and learning for each major category
- Give an example of how good teaching utilizes the principles
- List and give examples of five teacher behaviors that encourage student learning

Module 3—Writing Educational Objectives

- Define “instructional objective”
- Describe the components of an effective instructional objective
- Develop objectives for your instruction

Module 4—Creating a Lesson Plan

- Determine why it is important to plan a lesson.
- Identify what should be considered before creating a lesson plan.
- Define objectives and how we use them to be effective teachers.
- Identify the main components to a lesson.
- Complete the lesson plan template.

Module 5--Interest Approaches: Introducing Topics on the Mark

- Define interest approach and why it is used
- Determine questions to ask to focus on learner interest
- Identify examples of interest approaches that can be used in non-formal teaching

Module 6—Education through Visual Communication

- List reasons visual aids are used.
- Identify examples of visual aids.
- List principles of visual communication design.
- Design an effective poster, flier, exhibit, and computer-generated slide presentation.

Module 7—Experiential Learning

- Define experiential learning and compare it to other methodologies
- Differentiate between the practical pros and cons of using experiential learning
- Determine how to use experiential learning in non-formal teaching

Module 8—Problem-Based Learning

- Define PBL
- Discuss reasons for using PBL
- Identify teacher and learner roles in PBL
- Discuss the PBL process
- Identify and discuss the three key features of a PBL scenario
- Describe how PBL can be used in Extension

Module 9—Active Learning Strategies

- Determine the characteristics of active learning
- Recognize the ways learners take in information
- Compare and contrast active and passive learning
- Identify the importance of student-student interaction
- Define collaborative learning
- Determine what types of experiences constitute active learning
- Examine the importance of variety in teaching

Module 10—Teaching with Case Studies

- Define case study
- Identify sources for finding case studies
- Discuss strategies for using case studies
- Explain the components of a well written case study

Module 11—Teaching through Laboratories and Field Work

- Navigate and utilize resources (i.e., program manuals, EDIS publications) to create laboratory objectives
- Identify and develop potential laboratory work
- Develop laboratory learning centers
- Develop a scoring sheet (rubric)
- Explain how to plan for laboratory instruction

Module 12—Assessing Learning in Non-formal Settings

- Describe your beliefs about the purpose of adult education
- Differentiate between formative and summative assessment
- Describe options for assessment