**AUBURN UNIVERSITY**

**SYLLABUS**

**1. Course Number:** CTSE 7910

**Course Title:** Practicum in Area of Specialization: Planning and Implementing Instruction in Mathematics

**Credit Hours:** 1 semester hour

**Prerequisites:** None

**Corequisites:** CTSE 7530

**2. Date Syllabus Prepared:** January 2023

**3. Texts:** None

**4. Course Description:**

The student will demonstrate the ability to plan and implement a unit of mathematics instruction in a classroom setting.

**5. Course Objectives:**

The student will develop and implement a unit of mathematics instructions that support the application of content to mathematics teaching and learning using effective mathematics teaching practices (NCTM, 2014; ALSDE, 2019) based on research on best practices for teaching mathematics. In particular, they will:

a. Use their knowledge of high school mathematics curriculum standards and relate them to student learning across mathematical domains in order to identify mathematical goals in planning lessons and units that incorporate a range of differentiated instructional strategies in order to meet the needs of the diverse students they will teach.

b. Engage students in developmentally appropriate mathematical activities and investigations that require active engagement and

c. Select high-quality, developmentally-appropriate tasks in their instruction that are designed to actively engage students in building procedural proficiency from conceptual understanding, and develop mathematical practices: providing them with opportunities to reason and communicate about mathematics and to make connections among mathematical domains and with real-world contexts.

d. Support meaningful mathematical discourse, employing a range of purposeful questioning techniques designed to highlight and build on student thinking, including misconceptions.

e. Use and connect mathematical representations including manipulatives and physical models, drawings, virtual environments, and presentation tools to support instruction; in particular, use of mathematics-specific technology in building new knowledge.

**6. Course Content:**

Application of principles of curriculum planning for mathematics teaching and learning discussed in CTSE 7530.

**7. Course Requirements:**

* Complete a unit plan for a unit of mathematics, approved by course instructor.
* Implement the unit plan in a K-12 setting, keeping a journal reflecting on what happened, along with sample student responses as support.
* Final reflection on the efficacy of the unit plan, including what might be improved if it were to be taught again.

**8. Evaluation**

Satisfactory completion of the unit plan, reflective journal, and final reflection.å

**9. Class Policy Statements**

Attendance/Absences: Interns are expected to be at their assigned school each day in which that school is in session during their internship. In case of an unexpected absence the intern should first notify his/her cooperating teacher and then the Auburn University Supervisor. All interns are required by state law to have 70 full time days in the school (or 15 full weeks) during their internship semester. Failure to do so could result in the intern not receiving certification at the end of the semester.

Unannounced quizzes: There will be no unannounced quizzes.

Accommodations: Students who need accommodations are asked to electronically submit their approved accommodations through AU Access and to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with my office hours, an alternate time can be arranged. To set up this meeting, please contact me by e-mail. If you have not established accommodations through the Office of Accessibility, but need accommodations, make an appointment with the Office of Accessibility, 1228 Haley Center, 844-2096 (V/TT).

Honesty Code: The University Academic Honesty Code and the [Student Policy eHandbook](http://www.auburn.edu/student_info/student_policies/) ([www.auburn.edu/studentpolicies](http://www.auburn.edu/studentpolicies)) and Regulations pertaining to Cheating will apply to this class.

Professionalism: As faculty, staff, and students interact in professional settings, they are expected to demonstrate professional behaviors as defined in the College’s conceptual framework. These professional commitments or dispositions are listed below:

* Engage in responsible and ethical professional practices
* Contribute to collaborative learning communities
* Demonstrate a commitment to diversity
* Model and nurture intellectual vitality

A signed contract will be required detailing aspects of professional conduct.

**Students are encouraged to complete the AU eValuate survey for the course.**