

# NATS3341 - Knowing and Learning in Mathematics and Science

[NATS 3341](#) Knowing and Learning in Mathematics and Science (3 semester credit hours) This course expands the prospective teacher's understanding of current theories of learning and conceptual development. Students examine their own assumptions about learning. Topics include psychological foundations of learning; problem solving in mathematics and science education utilizing technology; principles of expertise and novice understanding of subject matter; implications of high-stakes testing; and foundations of formative and summative assessment. Content also includes dyslexia training. Three lecture hours a week for one semester; additional hours may be required. Restricted to students in the UTeach Dallas program. Prerequisites: A university grade point average (GPA) of at least 2.750 and a GPA of 3.000 or better in UTeach coursework and UTeach advisor consent required. Prerequisite or Corequisite: [NATS 1141](#) or [NATS 1142](#). (3-0) S