

**Tennessee Technological University
Mathematics Department**

MATH 6001: Communicating Mathematics I

- I. COURSE DESCRIPTION FROM CATALOG:**
This course provides mathematics graduate teaching assistants with practical training in the teaching of mathematics. Lec. 3. Cr. 3.
- II. PREREQUISITE(S):**
None
- III. COURSE OBJECTIVE(S):**
To prepare graduate teaching assistants to be effective learning assistants and instructors of record.
- IV. STUDENT LEARNING OUTCOMES:**
Students will:
- Learn best practices in tutoring and student assistance;
 - Observe classes to identify good teaching practices of experienced instructors;
 - Practice teaching skills in mock presentations;
 - Discuss syllabus preparation, student assessment, and class management
- V. TOPICS TO BE COVERED:**
- A discussion of what constitutes good teaching and how undergraduates learn math
 - Observations of classes taught by experienced instructors
 - Discussion of class observations
 - How to organize lessons: planning, time management, homework
 - Overview of College Algebra content emphasizing what students find difficult
 - Grading and the importance of consistency
 - A discussion of office hours, how to start the semester, rules and regulations, services available to freshmen
 - Presentation of a 20-minute practice lesson
- VI. ADDITIONAL INFORMATION:**
- VII. POSSIBLE TEXTS AND REFERENCES:**
How to Teach Mathematics, 2nd edition, Steven G. Krantz
- VIII. MAJOR TEACHING METHOD:**
Seminar/Discussion
- IX. SPECIAL INSTRUCTIONAL MATERIALS:**
None
- X. ASSESSMENT:**
Students earn a grade of S (Satisfactory) or U (Unsatisfactory) based on their participation and the quality of their presentations.

XI. STUDENT ACADEMIC MISCONDUCT POLICY:

Maintaining high standards of academic integrity in every class at Tennessee Tech is critical to the reputation of Tennessee Tech, its students, alumni, and the employers of Tennessee Tech graduates. The Student Academic Misconduct Policy describes the definitions of academic misconduct and policies and procedures for addressing Academic Misconduct at Tennessee Tech. For details, view Tennessee Tech Policy 217-Student Academic Misconduct at [Policy Central](#).

XII. DISABILITY ACCOMMODATION:

Students with a disability requiring accommodations should contact the Accessible Education Center. An Accommodation Request (AR) should be completed as soon as possible, preferably by the end of the first week of the course. The Accessible Education Center is located in the Roaden University Center, Room 112; phone 372-6119. For details, view Tennessee Tech's Policy 340-Services for Students with Disabilities in [Policy Central](#).