

PRACTICAL INFORMATION

Class hours: TR 8:00–9:20 am
Class room: MA 012
Instructor: Lars Winther Christensen
Office: MA 251
Office hours: M 3:30–4:30 pm, T 2:00–3:00 pm, and R 10:30–11:30 am, or by appointment
Phone: (806) 742-2580 x 366
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Course homepage: www.math.ttu.edu/~lchrste/teaching1300091
WebAssign.net key: ttu 2190 9232

COURSE DESCRIPTION

This course is offered for students whose degree programs require no mathematics beyond the quantitative literacy intended in the Texas Tech general education mathematics and logical reasoning requirements. Topics include problem solving, elementary notions of set theory, logical statements and deductive reasoning, truth tables, exponential and linear growth, financial management, voting theory, units of measurement, and some notions of elementary geometry.

Required text: “The Nature of Mathematics”, Custom 11th Edition by Karl Smith, Cengage.

Prerequisites: B in MATH/TSI 0302, credit for college level math, 3 on MPE, 610 on SATM, or 26 on ACTM.

Expected learning outcomes: Math 1300 satisfies the university core curriculum requirement in Mathematics: *Students graduating from Texas Tech University should be able to demonstrate the ability to apply quantitative and logical skills to solve problems.* It meets the following TTU general education student learning outcomes for mathematics, that students will:

- Apply arithmetic, algebraic, geometric, statistical, and logical reasoning to solve problems.
- Represent and evaluate basic mathematical and/or logical information numerically, graphically, and symbolically.
- Use mathematical and logical reasoning to evaluate the validity of an argument.
- Interpret mathematical and/or logical models such as formulas, graphs, tables, and schematics, and draw inference from them.

In particular the students will

- Construct simple logical expressions and arguments.
- Evaluate simple algebraic expressions.
- Use linear and exponential models.
- Create multiple graphical representations of data.
- Compute compound interest, annuities, and tax payments.
- Apply techniques of problem solving.

LEARNING ASSESSMENT

Graded assessment is done through homework and exams. Other assessment techniques will also be used; these include direct questioning, problems to be solved in class, and discussions during office hours. Additionally, problems will be assigned for student self-assessment.

COURSE ORGANIZATION

The plan is to cover (in order) chapters 8, 1, 2, 17, 3, 9–11 and, time permitting, 7 in the text. Precise reading assignments will be posted on the course homepage after every class.

Exams: In-class exams take place on 8 Oct. and 19 Nov; the final is on 11 Dec., 10:30 am–1:00 pm.

Other important dates:

	Labor Day	7 Sep.
Last day to drop a course and receive a refund		14 Sep.
Last day to withdraw and receive a partial refund		24 Sep.
	Student holiday	12–13 Oct.
Last day to drop a course		2 Nov.
	Thanksgiving vacation	25–29 Nov.
	Last day to withdraw	4 Dec.

ASSIGNMENTS, GRADES, AND GRADING

Two (2) in-class exams are given during the semester. Homework will be assigned 12 times during the semester. Results and grades are posted at www.blackboard.ttu.edu.

Grading policy: On exams and written homework, partial credit for correct steps will be awarded even if the final answer is wrong. Full credit will be given only if the final answer and all intermediate steps are correct. A correct final answer *per se* does not guarantee any credit.

Deadlines and make ups: Homework is not accepted after the deadline. In-class exams cannot be made up; the final exam serves as make-up for exams that were missed for legal reasons.

Final grade: Homework (10 assignments) and exams (3) are counted towards the final grade with weights as follows: Homework 35% (3.5% ea.), in-class exams 40% (20% ea.), and final exam 25%.

GENERAL POLICIES

Academic integrity: It is the aim of the faculty of TTU to foster a spirit of complete honesty and a high standard of integrity. Any attempt of students to present as their own any work that they have not honestly performed is regarded by faculty and administration as a serious offense and renders the offenders liable to serious consequences, possibly suspension. Please see more information on-line at www.depts.ttu.edu/studentaffairs/CampusCrime/documents/integritymatters.pdf.

Civility in the classroom: You are expected to be courteous to me and your fellow students. This means that your cell-phone should be turned off during the class; you shall not chat with your friends during class, eat meals or snacks, or cause a distraction in any other way.

Officially approved trips: Students are allowed to miss class for trips officially sanctioned by TTU. The student must notify the instructor of upcoming trips and present written authorization.

Religious holy days: You are allowed to take the time to travel and observe a religious holy day. Prior notice should be given at least 1 day before the absence.

Students with disabilities: Any student who, because of a disability, may require special arrangements in order to meet course requirements should contact the instructor as soon as possible to make any necessary arrangements. Students should present appropriate verification from Student Disability Services during the instructor's hours. Please note instructors are not allowed to provide classroom accommodations to a student until appropriate verification from Student Disability Services has been provided. For additional information, you may contact the Student Disability Services office at 335 West Hall or 806-742-2405.