

**PRACTICAL INFORMATION**

Class hours: TR 9:30–10:50 am

Class room: MA 011

Instructor: Lars Winther Christensen

Office: MA 251

Office hours: MR 1:30–2:30 pm, F 3:00–3:50 pm, or by appointment

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[www.MyMathLab.com](http://www.MyMathLab.com) Course ID: christensen72286

Course homepage: [www.math.ttu.edu/~lchrste/teaching1300131.html](http://www.math.ttu.edu/~lchrste/teaching1300131.html)

**COURSE DESCRIPTION**

The course is designed for a wide student body population. The course fulfills a set of learning objectives as established by the Texas Higher Education Coordinating Board for students whose major foundation is not a mathematical one. Topics include problem solving, logical statements and deductive reasoning, truth tables, personal finance management, appropriation and voting theory, as well as notions of elementary probability and statistics.

**Required text:** *Mathematics all around*, 5<sup>th</sup> edition, by Thomas L. Pirnot, Pearson (2013).

**Prerequisites:** B in MATH/TSI 0302, C in a college level math class, 3 on MPE, 610 on SATM, or 26 on ACTM.

**Student learning outcomes:** Math 1300 satisfies part of the university's core curriculum requirement in Mathematics. It meets the TTU general education student learning objectives 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 learn to :

- Apply techniques of problem solving, including estimation.
- Construct and evaluate simple logical expressions and arguments.
- Evaluate simple algebraic expressions.
- Create and evaluate graphical and statistical representations of data.
- Compute compound interest, annuities, and tax payments.
- Apply algorithms related to appropriation and voting.

**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. The homework problems will be assigned out of an online test bank; they will be chosen such that they facilitate the students' development of skills and understanding necessary to perform the operations listed above. Exam problems will be constructed such as to test if the students have achieved the general education learning objective listed above.

## COURSE ORGANIZATION

Of the 28 meetings of the class, 26 will be spent on lectures and reviews and 2 on exams. The plan is to cover (in this order) sections 4.1–4.4 (4 days), 1.1–1.3 (2 d), 8.1–8.6 (4 d), 3.1–3.5 (4 d), 10.1–10.3 (2 d), 11.1–11.3 (3 d), 13.1–13.4 (3 d), and 14.1–14.4 (4 d). Exact reading assignments are posted on the course homepage, which is updated after every class.

**Exams:** In-class exams take place on 3 Oct. and 14 Nov. The final is on 6 Dec., 4:30–7:00 pm.

### Other important dates:

Last day to drop a course without penalty	12 Sep.
Last day to drop a course	28 Oct.
Thanksgiving	27 Nov.–1 Dec.
Last day to withdraw	29 Nov.

## ASSIGNMENTS, GRADES, AND GRADING

Two in-class exams are given during the semester. Homework will be assigned 14 times during the semester and is due on Mondays; the assignments are to be completed online at MyMathLab. Results and grades are also posted at MyMathLab.

**Grading policy:** On exams, 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 does not *per se* 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 30% (3% ea.), in-class exams 40% (20% ea.), and final exam 30%.

## 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/studentjudicialprograms/academicinteg.php](http://www.depts.ttu.edu/studentjudicialprograms/academicinteg.php).

**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 one week 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.