TTU – MATH 1300 – Contemporary Mathematics

Section / Time / Location:	201 / MTWRF 8:00-9:50am / MATH 109	**Instructor:**	**Josh Engwer**
		E-mail:	josh.engwer@ttu.edu
		Website:	http://www.myweb.ttu.edu/jengwer or Google^{TM} "josh engwer"
Office Hours:	MTWRF 10:00am - 12:00pm (or by appt.)	**Office:**	MATH 003A
Text:	*MATHEMATICS ALL AROUND* 5th Ed by Thomas Pirnot (published by Pearson)		

Prerequisites: Any one of **[A]-[C]** below.   (Legend: / = 'or', + = 'and', :X = '**at least** a grade/score of X')

   [A] TSI 0302:C   **[B]** SATM:500   **[C]** ACTM:19   [i.e. High School Algebra (Fractions, Decimals, Powers, Roots)]

Course Content: [Ch1 (Problem Solving) will be sprinkled across the course as needed]

Week 1	Ch8:	Consumer Math		
Week 2	Ch10:	Apportionment	Ch11:	Voting
Week 3	Ch3:	Logic	Ch4:	Graph Theory
Week 4	Ch13:	Probability	Ch14:	Descriptive Statistics

Lecture Slides: Slides in PDF format will be presented during lecture and available on the Course Calendar for later review.

Lecture Outlines: Go to Course Calendar, print out beforehand, bring to lecture. Boxed problems will be worked.

Final Grade Assessment: Attendance – 5%, Homework – 20%, 3 x Midterm Exams (15% each) – 45%, **Final Exam – 30%**

Final Grade Scale: A: 100%-90%   B: 89%-80%   C: 79%-70%   D: 69%-60%   F: 59%-0%

Attendance Policy: Attendance will be taken. It is the student's responsibility to sign the roll sheet each class.

Homework: All homework (HW) is assigned & completed online through **MyMathLab** (**Access Code required!**)
   Work HW problems by hand to realize the amount of work expected for similar problems on exams.

Calculators: Any graphing or scientific calculator is permitted on HW & exams. **Avoid "basic" & "printing" calc's.**
   Scientific ($12 - $25):   **TI-36X Pro**, TI-30XIIS, **Casio fx-300ES+**, fx-115ES+, **Sharp EL-W516B**, **HP 300s+**, ...
   Graphing ($80 - $200):   **TI-84+**, TI-83+/85/89, TI-NSpire, **Casio fx-9860GII**, fx-9750GII, PRIZM, **HP Prime**, ...
   Phones, laptops & tablets are forbidden as calculators on exams.

Midterm Exams: In-class, **calculator permitted**, **formula sheet provided**, **closed-'everything else'**
   Use **pencils** & **erasers** to work problems – **Do** <u>not</u> **use: pens, colored pencils, markers, highlighters, ink**
   Sufficient correct work must be shown to receive full points.
   Be prepared to show a photo ID (e.g. your RaiderCard) if the instructor does not recognize you.

Final Exam: Comprehensive, **Bluebook required**, calculator permitted, formula sheet provided, **closed-'everything else'**.
   It will be administered on **Thursday, August** 6th**, 11:00am - 1:30pm in room MATH 109**.
   See the course webpage for Bluebook requirements.

Make-up Policy: Homework will not be accepted late – hence, no make-ups for homework.
   There will be no make-up exams given except for observance of a religious holiday.
   If a midterm exam is missed for a **legitimate documented** reason, then the Final Exam score will replace it.
   Some legitimate excuses (with documentation): university field trip, severe illness, death in the family, ...
   Some non-legitimate excuses: "I already bought plane tickets", "I was stuck in traffic", "I overslept", ...

KEYS TO SUCCESS: **Show up.   Work problems.   Seek help when stuck.   Show work.   Manage time.**

I <u>never</u> **accept exam corrections nor drop the lowest exam score nor assign extra credit assignments!**

Learning Objectives: MATH 1300 satisfies part of the university Core Curriculum requirement in Mathematics. It meets the TTU general education student learning outcomes for mathematics that students will:

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

In particular, students will develop skills 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 apportionment and voting.

ADA Accommodation: (from OP §34.22)

Any student who, because of a disability, may require special arrangements in order to meet the course requirements should present appropriate verification from Student Disability Services (SDS) during the instructor's office hours.

For details, contact the **SDS office:** **(Address) 335 West Hall** **(Phone) 806-742-2405**.

Religious Holy Day Observance: (from OP §34.19)

- "Religious holy day" means a holy day observed by a religion whose places of worship are exempt from property taxation under Texas Tax Code §11.20.
- A student who intends to observe a religious holy day should make that intention known in writing beforehand.

  A student who is absent for the observance of a religious holy day shall be allowed to take an exam or complete an assignment scheduled for that day within a reasonable time after the absence.
- A student who is excused for a religious holy day observence may not be penalized for the absence.

  However, the instructor may respond appropriately if the student fails to complete the assignment satisfactorily.

Civility in the Classroom: Students are expected to assist in maintaining a classroom environment conducive to learning.

- No chatting. No newspapers. No periodicals. No music players. Silence phones.
- **When the instructor says "Let's get started," all talking should stop**.
- Students who insist on using a laptop or tablet should sit in the back two rows. Of course, the device should be silenced.

Academic Integrity: (from OP §34.12)

It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and a high standard of integrity. **Any attempt of scholastic dishonesty by the student is liable to serious consequences, possibly suspension**.

Scholastic Dishonesty: "Scholastic dishonesty" includes (but is not limited to): **Cheating** & **Misrepresenting Facts**

Cheating: "**Cheating**" includes (but is not limited to):

- Copying from another student's exam
- Using unauthorized materials during an exam
- Collaborating with another student during an exam
- Leaving the exam room without submitting the exam for grading
- Taking an exam for someone else

Misrepresenting Facts: "**Misrepresenting facts**" includes (but is not limited to):

- Providing false or misleading information in an effort to receive a postponement or an extension on an exam or HW.