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**MAT 135 AA: Quantitative Reasoning**


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**Instructor:** Mark Rasmussen

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**Office:** Science 33A

<b>Office Hours:</b>	Monday	Tuesday	Wednesday	Thursday	Friday
	9:00 – 12:00	9:00 – 10:00 1:00 – 2:00*	9:00 – 12:00	9:00 – 10:00 1:00 – 2:00*	1:00 – 12:00

or by appointment

\* The TR 1-2 office hours are in place while MAT 104 is in session. (10/23 – 11/28)

**Time and Location:** MWF, 12:00 - 12:50 pm, SCI 24

**Final Exam Date/Time:** Wednesday, December 13<sup>th</sup>, 11:00am - 1:00 pm

**Prerequisite:** Successful completion of MAT 102 (College Algebra) or Placement

**Text:** Using & Understanding Mathematics: A Quantitative Reasoning Approach, Sixth Edition, Bennett & Briggs, Pearson

**Calculator:** A TI-NSpire, TI92/Voyage, TI84, or TI83 is required. Instructor will use the TI-NSpire

**Amendments:** The instructor reserves the right to make changes to this syllabus as needed.

**Course Description:** This course is designed primarily for those who are not planning additional course work in Mathematics. The selection of topics, examples, and applications will be driven by what is necessary to make a person quantitatively literate, and thus better prepared to meet the challenges of the modern world. We will cover selected sections from chapters 1 through 7.

**Sections Covered:**

- Ch 1, Sec A,B,C
- Ch 2, Sec A,B
- Ch 3, Sec A,B,C
- Ch 4, Sec A,B,C\*,D\*
- Ch 5, Sec A,B,C,D,E (All Sections)
- Ch 6, Sec A,B,C
- Ch 7, Sec A,B,C,D,E
- A few supplementary Topics

**Grading Policy:** The grade will be based on:

Homework, and Projects .....	35%
Quizzes .....	15%
Tests .....	30%
Final Exam .....	20%

**Homework:** Homework will be assigned daily and will be collected once per week. Late homework will have the grade reduced for each class period late it is. After one week (two class periods) the late homework will no longer be accepted. Each homework will receive two grades. The first will be based upon completion while the second will be based upon accuracy. For each assignment, I will select a group of problems to check for correctness. If one of the problems I select is not present in your homework, you will receive a zero (0) on that problem.

**Standards for graded homework:**

- Work should be neat, organized and legible
- Use filler paper or remove ragged edges from spiral paper
- Use pencil and eraser (not pen)
- Number each problem
- Show work so that I can follow your steps and so that you don't need to recreate your work when studying homework for the exam
- STAPLE your papers together

**Quizzes:** There will be several quizzes given throughout the course, typically at least once per week. Missed quizzes may not, as a rule, be made up, but your lowest score will be dropped.

**Tests:** There will be two unit tests. The first will cover chapters 1, 2, and 3. The second will cover chapters 4 and 5. Tests will NOT be open-book or open-note. You'll be able to use a pencil, eraser, and calculator.

**Final Exam:** The final exam will be cumulative and will be approximately twice the length of the unit tests. The date and time of the Final can be found on the front of the syllabus.

**Projects:** We will be having a few short research projects, the details of which will be provided when assigned.

**Grading Scale:** The following scale will be used to convert percentages into letter grades with an adjustment noted:

Average	Letter Grade
90 – 100 %	A
80 – 89.99 %	B
70 – 79.99 %	C
60 – 69.99 %	D
0 – 59.99%	E

If the **maximum** of your Final Exam and your Test Average is below a 55% you will receive an E. If this maximum is between a 55% and 63%, you will receive a grade no higher than a D. Otherwise, you will receive a grade no more than one letter grade above this maximum.

**Attendance:**

Attendance is expected at every class. Missing more than four (4) classes may result in the lowering of your final grade by 10% (a full letter grade). Two instances of arriving late/leaving early will count as one absence.

Note: If you miss class for any reason, you are still responsible for any material covered or work assigned, and it is your responsibility to make sure you know what this work/material is.

**Learning Outcomes:**

To successfully complete this course, the student will:

- Interpret mathematical models such as formulas, graphs, tables, and schematics, and draw inferences from them
- Represent mathematical information symbolically, visually, numerically, and verbally.
- Use arithmetical, algebraic, graphical, geometric, and statistical methods to solve problems.

**SHU General Education Learning Outcomes:**

The general education learning outcomes (see page 10 of the undergraduate catalog) receiving major emphasis in this course are Communication, Creativity, Critical Thinking and Technology.

**Academic Dishonesty:**

Complete honesty is expected in written work with proper acknowledgements to sources. Any student engaged in any act of academic dishonesty may receive a failing grade and be reported to the appropriate university authorities. For a complete explanation of the **Academic Dishonesty Policy**, refer to the SHU Undergraduate Catalog.

**Students with Learning Disabilities:**

In accordance with University policy and the equal access laws, I am available to discuss appropriate academic accommodations that you may be eligible for as a student with a disability. Please contact me for an appointment to discuss possible accommodations. Students must register with the Office for Students with Disabilities for disability verification and determination of reasonable accommodations. Requests for accommodations must be done in a timely manner and are not retroactive.

**Policies:**

- A word about **COMPUTERS**: The computers in the class room are only to be used during class when students are instructed to do so. There is to be absolutely no web browsing, instant messaging, e-mailing, working on other courses, or other use of the computers during class. Using the computer at inappropriate times distracts both classmates and your instructor.
- The use of **CELL PHONES** in class is not permitted. Using your cell-phone may result in the confiscation of your phone for the remainder of class and additional disciplinary action\*. Please turn your phone off and put it away before coming to class.

**Finally:**

Plan to leave whatever fear/apprehension/distaste you have for math at the door. By the end of the term you're going to be comfortable with the material in the text and the applications we pursue. Come to class and give ALL the assigned problems an honest effort, listen to my presentations, ask questions, come and see me as soon as you feel problems arising, and read the book examples and explanations. You'll find the material more accessible as we go. With a combined effort we're all going to make this a useful class.