

Structures and Concepts in Elementary Mathematics I

Grossmont College, Spring 2019

Instructor: Kyle Havens	Course: Math 125	Section: 1692	Units: 3
Days: Tuesday & Thursday	Time: 12:30pm – 2:20pm	Room: 121A	
Office Hours: See next page	Email: kyle.havens@gcccd.edu	Cell: (619)990-4714	

Textbook (required): *Reconceptualizing Mathematics*, 3rd Edition by Sowder, Sowder, and Nickerson

- Homework problems are posted at www.havensmath.com.

Prerequisite: Grade of C or above in the courses Math 103 or equivalent.

Course Topics: This course mainly covers the material required for teaching grades K through 8. Topics include concept of numbers and counting, numeration systems, operations of whole numbers, ordering, addition, subtraction, multiplication and division of fractions, decimals, and integers, ratios and percents, elementary number theory: factors, multiples, prime numbers, GCD and LCM.

Student Learning Outcomes:

- The student will be able to use various problem solving strategies.
- The student will be able to develop their number sense by demonstrating competence in using different numeration systems.
- A student will be able to analyze and contrast the basic operations of the real number system.
- A student will be able to demonstrate proportional reasoning when working with the rational numbers.

Class Performance: Your final grade in my class will be calculated by the following weighted system.

25%	Final Exam	Cumulative. You must get a “D” on the final exam to pass.
50%	Test Average	The average score of your in-class tests.
25%	Homework and classwork	Homework is in the textbook, classwork may include quiz

Letter Grade: The letter grade you receive will be based on your total score from the above system.

98-100%: A+	88-89%: B+	78-79%: C+	
92-97% : A	82-87%: B	70-77%: C	
90-91%: A-	80-81%: B-	60-69%: D	Under 60%: F

The grade you receive at the end of the semester will be the grade you earned based on the grading system. All requests for an opportunity to improve your grade due to personal circumstances will be denied. Borderline grades may be rounded up if student has good attendance.

Final Exam: The final exam is cumulative and will be held at the following time:

Thursday, May 30th from 11:35pm to 1:35pm.

The Standards of Mathematical Practice

1. Make sense of problems and persevere in solving them
2. Reason abstractly and quantitatively
3. Construct viable arguments and critique the reasoning of others
4. Model with mathematics
5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning

Participation: Participation in the course is critical to success. The way you can participate in class will vary day to day, which could include a quiz, group activity, lecture, or individual practice. The major focus of this class will be the conscious development of reasoning and communication skills. You will receive a course that will enrich your understanding of fundamental mathematical concepts. What you should expect is a course built around problems. You will spend much of your class time doing and discussing problems in groups and individually.

Homework: One set of homework problems will be assigned for each chapter covered in class, consisting of anywhere between ten to thirty problems. The problems you are to work on are posted at www.havensmath.com and should be posted as we finish each chapter in class. I will do my best to remind you about the homework but you are responsible for completing it by the posted date. You will have at least a week to finish a homework assignment after it is posted. Homework will be graded on two facets – completeness and correctness.

Exams: There will be a total of three normal exams covering roughly two to three chapters of material each. No notes/books allowed on exams. No make-up exams are allowed regardless of circumstance. Missing an exam will result in a zero on that exam. Contact me before missing an exam if you have a critical emergency.

Office Hours: Office hours will be held after class (2:20pm-3:00pm) every Thursday in building 50. Specifically, the dates of office hours are: 1/31, 2/7, 2/14, 2/21, 2/28, 3/7, 3/14, 3/21, 4/4, 4/11, 4/18, 4/25, 5/2, 5/16, 5/23.

Canvas: Course announcements will be made online through Canvas (gcccd.instructure.com).

Students with Disabilities: Students with disabilities who may need accommodations in this class are encouraged to notify the instructor and contact Accessibility Resource Center A.R.C. early in the semester so that reasonable accommodations may be implemented as soon as possible. Students may contact DSP&S in person in building 60, room 120 or by phone at (619) 644-7112 (voice) or (877) 561-8975 (Video Phone for the deaf).

Academic Integrity: Cheating and plagiarism (using as one's own ideas writings, materials, or images of someone else without acknowledgement or permission) can result in any one of a variety of sanctions. Such penalties may range from an adjusted grade on the particular exam, paper, project, or assignment (all of which may lead to a failing grade in the course) to, under certain conditions, suspension or expulsion from a class, program or the college. For further clarification and information on these issues, please consult with your instructor or contact the office of the Associate Dean of Student Affairs.

Tutoring: All math students receive free tutoring from the Math Study Center located in the Tech Mall, room 70-112. You will need to swipe your ID card to obtain access to the room. Call (619) 644-7706 for more info.

Behavioral Expectations:

- Cellphones on silent.
- Be in class on time and don't leave class early. If you are late or leave early you may be marked as absent for that class. You can be dropped from the course for more than 6 hours of absences.
- Participate! Be attentive, take notes, and ask questions.
- Don't talk during lecture or while other students are asking questions.
- Do not go outside in the middle of class to make or answer a phone call.
- Comments about another's race, ethnicity, accent, appearance, intelligence, or sexual orientation will not be tolerated on any level.

Other Deadlines: February 8th (last day to drop without a "W"), April 26th (last day to drop for "W")

This course adheres to the policies outlined in the Grossmont College Catalog.

Modifications may occur due to unforeseen circumstances.

Math 125 - Class Schedule

Week of	Mon	Tuesday	Wed	Thursday
1/28		Intro Syl, sched, 1.1		Ch. 1 1.2, 1.3
2/4		Ch. 1 1.4		Ch. 2 2.1, 2.2
2/11		Ch. 2 2.3		Ch. 2 2.4
2/18		Ch. 3 3.1, 3.2		Ch. 1 & 2 Review
2/25		<i>Exam #1</i>		Ch. 3 3.3, 3.4
3/4		Ch. 3 3.4, 3.5		Ch. 3 3.6
3/11		Ch. 4 4.1		Ch. 4, 5 4.1, 5.1
3/18		Ch. 5 5.2, 5.3		Ch. 5 5.3, 5.4
3/25	<i>Spring Break</i>			
4/1		Ch. 6 6.1		Ch. 3-5 Review
4/8		<i>Exam #2</i>		Ch. 6 6.2
4/15		Ch. 6 6.3 [Q6]		Ch. 6 6.4
4/22		Ch. 7 7.1		Ch. 7 7.1, 7.2
4/29		Ch. 7,8 7.3, 8.1		Ch. 7,8 7.3, 8.1
5/6		Ch. 8 8.2		Ch. 9 9.1, 9.2
5/13		Extra Day??		Ch. 6-9 Review
5/20		<i>Exam #3</i>		<i>Final Review</i>
5/27	<i>Finals Week</i>			FINAL EXAM 5/30 @ 11:35pm