

- Recognize the important distinctions between the systems of whole numbers, integers, rational numbers, and real numbers.

Evaluation:

Grades in the course will reflect students' demonstrated attainment of course objectives.

Quizzes: Approximately 6 quizzes will be given during the semester. Each quiz will be worth 20 points. Quiz questions will come from the assigned homework problems. Your top five quiz scores will be used for grading purposes.

Exams: There will be three exams each worth 100 points each.

Final Exam – (Sec 3) Wed. May 9th from 10:00 – 11:50 AM
 (Sec 4) Wed. May 9th from 12:00 – 1:50 PM

Letter grades will be assigned according to the following:

A = 372-400	A- = 360-371	B+ = 348-359
B= 332-347	B- = 320-331	C+ = 308-319
C = 292-307	C - = 280-291	D+ = 268-279
D = 240-267	E = 239 or below	

Expectations:

- You should attend all classes. Classroom participation is important. If you have to miss a class due to some uncontrollable circumstance, it is your responsibility to find out what material was covered during that missed class from a classmate. It is impossible for me to reteach the material that you missed. If you have a question after you have attempted the homework please see me during office hours.
- If you miss an exam or quiz due to an emergency, you MUST contact me BEFORE the next class. You may be allowed to make up the quiz/exam, but it must be before the next class period.
- Cell phones are a disruption and are not allowed during class. Please turn your cell phone off or turn it on silent (not vibrate).

Tutoring: Optional tutoring is available at the Mathematics Tutoring Lab located in Robinson 409.

Special Needs: Students with disabilities are encouraged to discuss requests for reasonable accommodations with the professor at the beginning of the semester. In order for accommodations to be provided, your disability must be verified by the **Office for Disability Services**, 104 Russell Hall, **484-2665**.

Academic Honesty: All work in this course must be completed in an ethical and honest manner consistent with the Lock Haven Academic Honesty Policy. In particular, you are encouraged to collaborate in small groups when working out homework problems but you should make sure that each member of your group contributes a fair share of work to the group effort. This is of special importance since you will be evaluated on the basis of your individual understanding of the material, and will not be allowed to collaborate during exams.

Disclaimer: The instructor reserves the right to change or modify this course and the syllabus for justifiable reasons, subject to appropriate and timely notice to the students enrolled in this class.

Relationship between Course, Program-level, and University-level Student Learning Outcomes

Course Learning Outcomes (Objectives)	Program Student Learning Outcomes	University-level Student Learning Outcomes
Upon successful completion of this course, students will be able to:		
Articulate and apply various problem solving strategies.	Knowledge of mathematical problem solving	Communication/Critical thinking
Recognize the study of patterns as a central, underlying theme in mathematics.	Knowledge of mathematical problem solving	Critical thinking
Use sets and relations as tools for problem solving.	Knowledge of mathematical problem solving	Critical thinking
Analyze and compare features and basic computational techniques in selected systems of numeration.	Reasoning and argument/Knowledge of mathematical communication	Communication/Critical thinking
Demonstrate an understanding of the systems of whole numbers, integers, rational numbers, and real numbers.	Reasoning and argument	Critical thinking
Describe fundamental properties of number systems with physical materials and models.	Knowledge of mathematical communication.	Communication
Recognize the important distinctions between the systems of whole numbers, integers, rational numbers, and real numbers.	Reasoning and argument	Critical thinking