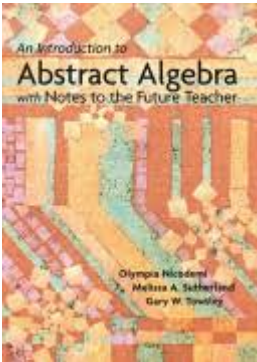


<p>Instructor: Mike Lundin</p> <p>Office: Bouillon 108D</p> <p>E-mail: lundin@cwu.edu</p> <p>Web: http://www.cwu.edu/~lundin/</p> <p>Phone: 963-1398</p> <p>Office Hours: 10:00-10:50 M-F or by appointment</p> <p style="text-align: center;">Topics</p> <p>Preliminaries</p> <p>Introduction to Groups</p> <p>Groups</p> <p>Homomorphisms</p> <p>Subgroups</p> <p>Cyclic Groups</p> <p>Cyclic Groups II</p>	<p style="text-align: center;">Math 360 Algebraic Structures I</p> <p style="text-align: center;">Meets in Hertz 120</p> <p style="text-align: center;">MWF at 11:00-11:50</p> <p style="text-align: center;">Please contact me if you have special needs.</p> <p style="text-align: center;">Assessment and Evaluation</p> <p>Participation 15%</p> <p>Quizzes 15%</p> <p>Homework Notebook 10%</p> <p>Midterm Exam 35%</p> <p>Final Exam 25%</p>	<p>Course Description</p> <p>Algebraic Structures I is the study of various types of categories and their inherent structures. In this course, we examine Sets and Groups.</p> <p>Objectives</p> <ol style="list-style-type: none"> 1) Students will demonstrate reasoning and problem solving ability by modeling, generalizing, and justifying the main notions associated with Algebraic Structures, particularly Sets and Groups.. 2) Students will demonstrate excellent written and oral communication in their demonstrations of Objective 1). 3) Students will demonstrate cooperative learning skills both inside and outside of class. <p style="text-align: center;">Text(s)</p> <p style="text-align: center;"><i>Math 360</i></p> <p style="text-align: center;"><i>Algebraic Structures I</i></p>
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<p>Alternating Groups</p> <p>Permutation Groups</p> <p>Geometric Applications</p> <p style="text-align: center;">About This Class</p> <p>Algebraic Structures is traditionally a first course in the mathematics curriculum that demands formal use of logic to prove theorems. The course content highlights a framework supporting nearly ALL modern mathematics. As such, the subject cannot be learned by cursory survey, but must be examined with intensity. Take time to think about and discuss ideas and to write and rewrite proofs. Make working with others a priority, but also take time to internalize the ideas yourself. Rewards for your hard work will include understanding the "superstructure" of mathematics.</p>	<p style="text-align: center;">Final Grading</p> <p>93-100% A</p> <p>90-92% A-</p> <p>88-90% B+</p> <p>83-87% B</p> <p>80-82% B-</p> <p>78-79% C+</p> <p>73-77% C</p> <p>70-72% C-</p> <p>68-69% D+</p> <p>63-67% D</p> <p>60-62% D-</p> <p>Below 60% F</p>	<p style="text-align: center;">by</p> <p style="text-align: center;">Dr. Chris Black</p> <p style="text-align: center;"><i>Group Explorer Software:</i></p> <p style="text-align: center;">Download Group Explorer Here</p> <p style="text-align: center;">wait for the "save" window; it takes a few moments.</p> <p style="text-align: center;">Optional Text (click photo for Info)</p> <div style="text-align: center;">  </div>
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