Introduction to Modern Algebra
MAT 3110-101, Spring 2027
MWF, 11:00–11:50 AM, 113 Edwin Duncan Hall

Instructor: Dr. Rick Klima

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Office Hours: MW 10:30–11:00 AM, 2:30–3:00 PM; TR 1:30-2:00 PM
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Course Calendar: https://www.appstate.edu/~klimare/MAT3110Calendar.htm

Course Information:

Bulletin Description: Topics covered include equivalence relations, groups, subgroups, homomorphisms, isomorphisms, and a survey of other algebraic structures such as rings, integral domains, and fields. Prerequisites: MAT 2110 or MAT 2510, and RC 2001 or its equivalent. Corequisite: MAT 2240.

Textbook: *Contemporary Abstract Algebra, Tenth Edition*, by Gallian, from which sections will be posted on the Course Calendar as they are needed

Homework: Homework will be given during and/or at the end of most class meetings, with solutions collected sometimes during the same class meeting, and sometimes at the start of the next class meeting. These solutions will be graded, and collectively count as **30% of final course averages**. Homework will be posted on the Course Calendar no later than shortly after the end of the class meeting in which it is given, and students who are absent, regardless of the reason, will be responsible for submitting their solutions at the time when they were/are originally collected. Late homework solutions will be accepted at the start of the next class meeting after they were originally collected three times per student. The three lowest (including missing) homework grades will also be dropped for each student to account for solutions which were not able to be submitted due to unexpected circumstances.

Tests: Tests will be given during class on Friday, **February 5**; Friday, **March 5** (which is the last day of classes before spring break); Friday, **April 9**; and Wednesday, **April 28** (which is the last day of regular classes for the semester). These tests will collectively count as **50% of final course averages**. Make-up tests will be given only with approval of the instructor and for absences which result from unexpected circumstances that can be documented and verified.

WID Assignments: This course satisfies the WID (Writing in the Discipline) requirement for the General Education Program. To fulfill this requirement, four WID assignments will be given at various times during the semester, all of which will require the use of the LaTeX program for professionally typesetting mathematics, and be due by

5:00 PM, Wednesday, May 5 (which is the last day of final exams for the semester). These WID assignments will each be graded as either 100% if completed perfectly or 0% if not completed perfectly, and collectively count as the remaining **20% of final course averages**.

Inclement Weather, Campus or Personal Emergencies: For any class meetings which are canceled or moved online due to inclement weather or campus or personal emergencies, students will be responsible for any assignments and/or announcements posted on the Course Calendar.

Academic Integrity Code, Access & Opportunity, Attendance Policy, Student Engagement with Courses: Official App State policies for each of these can be found at `https://academicaffairs.appstate.edu/resources-forms/syllabi-policy-and-statement-information`.

Grading: Final letter grades will be assigned at the end of the semester based on final course averages and the following scale.

92.00–100% = A
90.00–91.99% = A−
88.00–89.99% = B+
82.00–87.99% = B
80.00–81.99% = B−
78.00–79.99% = C+
72.00–77.99% = C
70.00–71.99% = C−
68.00–69.99% = D+
62.00–67.99% = D
60.00–61.99% = D−
0–59.99% = F