Math 31 – Summer 2017

My Contact Information:

Name:	Jay Pantone
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Website:	http://jaypantone.com/courses/summer17math31
Lectures:	MWF, 2:10pm - 3:15pm
X-hour:	Th, 1:20pm - 2:10pm
Office Hours:	Monday, 5:00pm - 6:00pm
	Tuesday, 4:00pm - 5:00pm
	Thursday, 11:00am - 12:00pm

Course Description:

This course will provide an introduction to fundamental algebraic structures, and may include significant applications. The majority of the course will consist of an introduction to the basic algebraic structures of groups and rings. Additional work will consist either of the development of further algebraic structures or applications of the previously developed theory to areas such as coding theory or crystallography. As a result of the variable syllabus, this course may not serve as an adequate prerequisite for MATH 81. Students who contemplate taking MATH 81 should consider taking MATH 71 instead of this course.

Textbook:

We will be using the textbook:

Abstract Algebra: A First Course, 2nd edition, by Dan Saracino.

Writing Mathematics:

In addition to learning the theory of abstract algebra, a core goal of this course is to help students learn to read and write mathematics. We'll spend time in class discussing how to articulate rigorous mathematical arguments in a clear and convincing way. On homework assignments, a portion of the grade will be based on the quality of exposition.

Canvas:

Student grades will be posted on Canvas, and may be accessed through http://canvas.dartmouth.edu. All other course material will be posted on our course page. Please do not email me through the Canvas system.

X-hour:

We will use the X-hour occasionally throughout the quarter, so be sure not to schedule anything during that time (1:20pm - 2:10pm, Thursday).

Homework:

Homework will be assigned each Wednesday and due the following Wednesday. There will be a total of eight homework assignments.

Unexcused late assignments will not be accepted.

Homework Collaboration Policy:

It can be very helpful to study and work with a group. This type of cooperative learning is encouraged; however, be sure that you have a thorough understanding of the concepts as well as the mathematical steps used to solve a problem. You must be able to work through the problems on your own. Each student must complete her or his assignment individually and independently and must turn in her or his own work.

On each homework assignment, you must **list** any resources you used to help you complete the assignment. This includes other class members with whom you discussed the problems.

Returned Papers:

You must retain all returned papers in case of any discrepancy with the recorded grades on Canvas. I cannot correct any mistakes in grading or recording of scores without the original document. All concerns regarding grades on assignments or exams must be handled within one week of the return of the paper.

Exams:

There will be two midterm exams and a final exam. The final exam will be cumulative, but with more weight on the material covered after the second midterm. The dates and locations for the exams will be posted on the course webpage and announced in class.

If you must miss an exam due to a College activity, you must seek approval from me at least two weeks prior to the exam day.

Grading Scheme:

Course scores are weighted as follows:

Homework	25%
Midterm Exam 1	20%
Midterm Exam 2	25%
Final Exam	30%

Disabilities

Students with disabilities who will be taking this course and may need disability-related classroom accommodations are encouraged to make an appointment to see me as soon as possible. Also, they should stop by the Academic Skills Center in Collis Center to register for support services.

Religious Observances

Some students may wish to take part in religious observances that occur during this academic term. If you have a religious observance that conflicts with your participation in the course, please meet with me before the end of the second week of the term to discuss appropriate accommodations.