TIME OF MEETING: Mon, Wed, & Fri 1:40 – 2:35

PLACE: Earth Science 143

INSTRUCTOR: W. F. Hammond, ES 137A  
Phone: 442-4625  
Email: hammond @ math.albany.edu  
Web: http://math.albany.edu/~hammond/  
Office hours: Mon. & Wed. 2:45 – 3:30, or by appt.

TEXT: J. Fraleigh, A First Course in Abstract Algebra, Addison-Wesley.

PRE-REQUISITE: Math 326

COURSE OBJECTIVE: This course is an introduction to the most basic concepts of abstract algebra: groups, rings, and fields. The previous course “Classical Algebra” presented the study of groups, rings and fields through a careful analysis of many concrete classical examples.

This course aims toward understanding what is true in the same vein about large precisely defined classes of groups, rings, and fields. For example, every principal ideal domain is necessarily a unique factorization domain but not conversely.

The process of constructing a new ring from a given ring by passing to “congruence classes” emerges as the general quotient construction.

TEST SCHEDULE & GRADING:

<table>
<thead>
<tr>
<th>Event</th>
<th>Weight</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final examination</td>
<td>100</td>
<td>Tue., Dec. 13, 3:30 – 5:30</td>
</tr>
<tr>
<td>Midterm test</td>
<td>50</td>
<td>(est.) Wed., Oct 26, in class</td>
</tr>
<tr>
<td>Written assignments (5 @ 10 each)</td>
<td>50</td>
<td>as announced</td>
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<tr>
<td>Occasional quizzes (10 @ 5 each)</td>
<td>50</td>
<td>with little or no notice</td>
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<tr>
<td>Writing Intensive Requirments</td>
<td>—</td>
<td>admission to 327Z by permission</td>
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<tr>
<td>Total weight</td>
<td>250</td>
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</table>

ATTENDANCE:

Attendance at class meetings is a requirement for passing the course unless the student has been granted a special exception. Unexcused absence may result in failure or grade reduction. There will be no excused absences from tests except for compelling emergencies and religious holidays.

ALTERNATE SOURCES:


M. Artin, Algebra, Prentice Hall.