MT 310 Introduction to Abstract Algebra
Fall 2013

Course: MWF 11:00am–11:50pm, Stokes 101N

Instructor: Lei Zhang
Office: Carney Hall 367
Phone: 617-552-2632
Website: http://www2.bc.edu/lei-zhang/
Email: lei.zhang.2@bc.edu
Office Hours: Monday 10-11, Thursday 11-noon, Friday noon-1pm, or by appointment.

Course Web Page: Blackboard Vista MT310.
Homework assignments, solutions and other course information will be posted.

Course Description: This course is an introduction to abstract algebra concepts and applications. Topics to be covered in this course are: groups, rings, fields and related concepts and theorems.

Prerequisites: MT210 is required and MT216 is highly recommended. Also, students are expected to be familiar with proof by contradiction and proof by induction. (We will only review those in the first lecture.)


Homework: Homework will be assigned during lecture each day except exam days and holidays. HOMEWORK WILL NOT BE ACCEPTED AFTER THE DAY IT IS DUE (unless it is the result of an officially excused absence).

There will be 11 homework assignments and the lowest homework score will be dropped. You are encouraged to collaborate on homework with your classmates, but copying somebody else’s work is plagiarism.

Exams: There will be two in-class exams and a final exam. The final exam will be at 12:30pm Wed, Dec 18. Exams must be taken as scheduled, except for documented illness or family emergency. If you have special issues regarding exams, please tell me in this month, with documentation from the appropriate offices of Boston College. No electronic devices (e.g. calculators or cell phones) will be used on exams.

Grading: Final grades will be determined by a weighted average of homework (20%), the two
in-class exam (20% each), and the final exam (40%).

**Academic integrity:** Please review the standards and procedures that are published in the university catalog and on the web, at:

[http://www.bc.edu/catalog/univ/meta-elements/ssi/integrity.shtml](http://www.bc.edu/catalog/univ/meta-elements/ssi/integrity.shtml)

If you are a student with a documented disability seeking reasonable accommodations in this course, please contact Kathy Duggan, (617) 552-8093, dugganka@bc.edu, at the Connors Family Learning Center regarding learning disabilities and ADHD, or Paulette Durrett, (617) 552-3470, paulette.durrett@bc.edu, in the Disability Services Office regarding all other types of disabilities, including temporary disabilities. Advance notice and appropriate documentation are required for accommodations.

**Tentative Schedule**

<table>
<thead>
<tr>
<th>Sep. 9*: §2</th>
<th>Sep. 6: §0,1</th>
<th>Sep. 11: §2,3</th>
<th>Sep. 13: §3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep. 16*: §3,4</td>
<td></td>
<td>Sep. 18: §4</td>
<td>Sep. 20: §4,5</td>
</tr>
<tr>
<td>Sep. 23*: §5</td>
<td></td>
<td>Sep. 25: §5</td>
<td>Sep. 27: §5,6</td>
</tr>
<tr>
<td>Sep. 30*: §7</td>
<td>Oct. 2: §8</td>
<td>Oct. 4: §8</td>
<td></td>
</tr>
<tr>
<td>Oct. 14: Columbus Day</td>
<td>Oct. 16*: §9</td>
<td>Oct. 18*: §9,10</td>
<td></td>
</tr>
<tr>
<td>Oct. 28: §11,12</td>
<td>Oct. 30: §12</td>
<td>Nov. 1*: §12,13</td>
<td></td>
</tr>
<tr>
<td>Nov. 4: §13</td>
<td>Nov. 6: §13,15</td>
<td>Nov. 8*: §15</td>
<td></td>
</tr>
<tr>
<td>Nov. 11: §15</td>
<td>Nov. 13: §16</td>
<td>Nov. 15*: §16</td>
<td></td>
</tr>
<tr>
<td>Nov. 18: §17</td>
<td>Nov. 20: §17</td>
<td>Nov. 22: Review</td>
<td></td>
</tr>
<tr>
<td>Nov. 25: Exam II</td>
<td>Nov. 27: Thanksgiving</td>
<td>Nov. 29: Thanksgiving</td>
<td></td>
</tr>
<tr>
<td>Dec. 2*: §18</td>
<td>Dec. 4: §18,19</td>
<td>Dec. 6: §19</td>
<td></td>
</tr>
<tr>
<td>Dec. 9*: §19,20</td>
<td>Dec. 11: Review</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1The star * means HOMEWORK DUE DAY.