Course
This is a continuation of MATH3311 Algebra I from last semester. Topics will include polynomial rings, fields, vector spaces, and Galois Theory.

Prerequisites
I expect that most students will have taken Algebra I; anyone who hasn’t should consult with me.

Text
Again, no book is required, but I’ll be posting class notes as the course evolves. They will continue from where we left off in the fall. Here are some standard references that you may want to consult.

• *Topics in Algebra* by I. N. Herstein

• *Abstract Algebra* by David S. Dummit & Richard M. Foote.

• *Algebra* by Michael Artin.

• *A First Course in Abstract Algebra* by John B. Fraleigh.

Exams
There will be two exams given in class:

• *Friday, February 15*

• *Friday, March 29*

The comprehensive final exam will be held on *Thursday, May 9*, at 9:00.

Homework
Homework will be assigned and collected regularly, roughly on a weekly basis. Submissions must be typeset in L\TeX. This is a free typesetting language; Mac users may download it at [http://www.tug.org/mactex/](http://www.tug.org/mactex/) and misguided Windows users at [http://tug.org/protext](http://tug.org/protext). I’ll post a template with each assignment.

Credit

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<th>Component</th>
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<tr>
<td>Midterm Exams</td>
<td>40</td>
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<tr>
<td>Homework</td>
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<td>Final Exam</td>
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|                  | **100**    |
Office  My office is Maloney 564, and my regular office hours are MWF 9:30-11:00. Jacob Caudell will be our teaching assistant; he’s in Maloney 537 with hours TBA. If you have questions or need help and can’t make these times, just see one of us and we’ll arrange an appointment.

Comments

1. I encourage you to work together on the homework; it can be very beneficial to get other people’s insights and to contribute your own. But if you do, you should solve the problems together, not just listen to someone else’s solutions, and you must write your solutions by yourself. I will not tolerate identical papers. In short, your submissions should reflect your own understanding, and be your own work.

2. I expect you to maintain the highest standards of academic integrity. Principles and procedures are outlined by the University; visit and read: http://www.bc.edu/integrity. In particular, I will report any violations to your Dean; sanctions will be, at minimum, failure in the course.

3. Class will begin promptly. To avoid disruption, be on time, turn your cell phone off, and have enough foresight that you do not have to leave. In particular, you may not leave the room during an exam. (Note: if medical issues require an exception, I will of course make one; see me ahead of time.)

4. I’ll post all materials, including solutions to problem sets and exams, on the course Canvas site. You should have received an email inviting you to the course; follow the link and you’ll be prompted for your BC username and password. You can then see all available sites for any courses you’re taking. After the first time, you can simply go to the BC Canvas portal through Agora.

5. The course notes will be on Canvas as well, of course. Keep your eyes peeled for typos/mistakes/howlers, and let me know if and when you find them. It’s traditional to give candy bars to students who find errors, and I’ll figure out something...