**Hours and Location:** Tuesdays and Thursdays 4:40 - 6:35 pm, Vincent Hall 206

**Instructor:** Brittany Baker  
Office: 557 Vincent Hall  
Email: bake0573@umn.edu  
Course website: [http://math.umn.edu/~bake0573/4653Fall2014.html](http://math.umn.edu/~bake0573/4653Fall2014.html)

**Office hours:**  
Monday 3:30 - 5:30 p.m.  
Wednesday 2:00 - 3:00 p.m.  
Friday 1:00 - 2:00 p.m.

**Description:** One semester course in probability theory. We will cover the basic concepts of probability theory: random variables, distributions, expectations, variances, conditional probabilities, Bernoulli Trials, Bayes' formula, limit theorems, and Markov Chains. The emphasis will be on working with concrete problems that arise in applications, but reading and understanding proofs will also be an important part of the course.

**Textbook:** Grinstead and Snell, *Introduction to Probability, Second Revised Edition*

**Prerequisites:** Math 2263 or 2374 or 2573 required. Math 2283 or 2574 or 3283W recommended.

**Grades:**  
Grades will be based on homework, two midterm exams, and a final exam, each of which are given the following point values:

<table>
<thead>
<tr>
<th></th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>20 points each (200 points total)</td>
</tr>
<tr>
<td>Midterms</td>
<td>250 points each</td>
</tr>
<tr>
<td>Final Exam</td>
<td>300 points</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1000 points</strong></td>
</tr>
</tbody>
</table>

**Homework:**  
There will be twelve homework assignments total, and your two lowest homework scores will not be counted toward your final grade. Homework will be due at 4:45 pm on Tuesdays. Late homework assignments will not be accepted. There should be margins on all four sides of the paper. If an assignment takes more than one piece of paper, the assignment should be stapled in the upper left-hand corner. Frills (from a spiral-ring notebook) are unacceptable and should be removed. Problems should be in order with space between each problem. All solutions should have supporting work/calculations with a box around the final answer. Students are allowed, encouraged, to work together and utilize office hours.

**Exams:**  
There will be two midterm exams. They are tentatively scheduled for *Tuesday, October 7th* and *Tuesday, November 18th*. The cumulative final exam will take place at the university-scheduled time: 4:40 - 6:40 pm *Tuesday, December 16th*.  
If you have a conflict with any of these dates, please contact the instructor immediately.
Drop Deadlines:
The schedule for drop deadlines can be found at the following site:
http://onestop.umn.edu/calendars/cancel_add_refund_deadlines/Fall_2014.html

Extra Help:
Do not hesitate to come to my office during office hours or by appointment to discuss a homework problem or any aspect of the course. If you would like to hire an outside tutor (for a fee), you can find a list of such people through the undergraduate mathematics office 115 Vincent Hall or ugrad@math.umn.edu.

Disability Accommodations:
If you feel that you have a learning disability that would prevent you from doing your best within that time frame, you should immediately contact the Office for Students with Disabilities to see if they can authorize accommodations for you. Reasonable accommodations will be provided for students with disabilities on an individualized and flexible basis. The staff at Disability Services will determine said accommodations through consultation with the student. Information is available on their website at https://diversity.umn.edu/disability/ by calling 612-626-1333 (for both voice and TTY), or by sending an email to ds@umn.edu.

University Grading Policies:
http://policy.umn.edu/Policies/Education/Education/GRADINGTRANSCRIPTS.html

Student Conduct and Scholastic Dishonesty:
The University of Minnesota Student Conduct Code governs all activities in the University, including this course. Students who engage in behavior that disrupts the learning environment for others may be subject to disciplinary action under the Code. This includes any behavior that substantially or repeatedly interrupts either the instructor’s ability to teach or student learning. The classroom extends to any setting where a student is engaged in work toward academic credit or satisfaction of program-based requirements or related activities. Students responsible for such behavior may be asked to cancel their registration (or have their registration canceled).

Scholastic dishonesty includes plagiarizing, cheating on assignments or exams, using a calculator while taking an exam or quiz, engaging in unauthorized collaboration on academic work, and taking, acquiring, or using exam materials without faculty permission. Scholastic dishonesty in any portion of the academic work for a course shall be grounds for awarding a grade of F or N for the entire course. For more information see http://www.oscai.umn.edu.