GENERAL INFORMATION
Instructor: Daniel McGibney
Class time: 9:00am - 9:50am MWF
Semester hours: 3
Class Location: Morton Hall  Room: 202
Office Hours: 10:00am - 11:00am MWF
Office: Hugh Jones Hall  Room: 111
E-mail: dpmcgiesb@wm.edu
Website: http://mcgiesb.imes.wm.edu/

COURSE DESCRIPTION
The following concepts and statistical techniques are included: combinatorial analysis, discrete and continuous probability distributions and characteristics of distributions, sampling distributions. Math 401 may not be taken concurrently with Math 351.

Prerequisites: Multivariate calculus, linear algebra (other courses preferred, but not necessary).

TEXTBOOK
Probability by Larry Leemis (Lightning Source)

GRADING PROCEDURE
A. Homework: Collection and grading of homework will be used in the evaluation of the student. Additionally, students will be assigned regular reading assignments, which they are responsible for.

   Late Homework will not be accepted.

B. Quizzes: Quizzes will be derived from the material covered in class and related sections covered in the book. The lowest quiz will be dropped. If you anticipate missing class during a scheduled quiz contact your professor one week prior to the quiz date.

   Make-up quizzes will not be given for any reason.

D. Projects: Projects using a statistical software package such as MINITAB, APPL, or R will be used in the evaluation of the student.

E. Final Exam: A comprehensive final exam will be given on Tuesday, December 8 from 9 am to noon. The location of the final exam will be announced later in the semester.

F. Evaluation of the Final Semester Grade:
   Homework: 15%
   Projects: 5%
   Quizzes: 60%
   Final Exam: 20%
The final grade is assigned using the scale: A 93-100, A- 90-92, B+ 87-89, B 83-86, B- 80-82, C+ 77-79, C 73-76, C- 70-72, D+ 67-69, D 63-66, D- 60-62, F < 60

COURSE OUTLINE
1. Introduction
2. Probability
3. Random Variables
4. Common Discrete Distributions
5. Common Continuous Distributions
6. Joint Distributions
7. Functions of Random Variables
8. Limit Theorems

ADDITIONAL INFORMATION
- Regular attendance and class participation are expected. This includes the expectation that the use of computers and cell phones for personal or recreational purposes is not permitted during class time.
- A calculator is necessary for this course. A graphing calculator is ideal, but not required.
- Grades will be posted regularly on Blackboard.
- Assignments will be posted on the course website.

SCHEDULE

<table>
<thead>
<tr>
<th>Monday</th>
<th>Wednesday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>26-Aug</td>
<td>Introduction</td>
<td>28-Aug</td>
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<tr>
<td>31-Aug</td>
<td>2-Sep</td>
<td>4-Sep</td>
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<tr>
<td>7-Sep</td>
<td>9-Sep</td>
<td>HW1 due</td>
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<td>14-Sep</td>
<td>16-Sep</td>
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<td>21-Sep</td>
<td>23-Sep</td>
<td>HW2 due</td>
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<td>28-Sep</td>
<td>30-Sep</td>
<td>2-Oct</td>
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<tr>
<td>5-Oct</td>
<td>7-Oct</td>
<td>HW3 due</td>
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<tr>
<td>12-Oct</td>
<td>No class</td>
<td>14-Oct</td>
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<td>19-Oct</td>
<td>21-Oct</td>
<td>HW4 due</td>
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<td>26-Oct</td>
<td>28-Oct</td>
<td>30-Oct</td>
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<td>2-Nov</td>
<td>4-Nov</td>
<td>HW5 due</td>
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<td>9-Nov</td>
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<td>16-Nov</td>
<td>18-Nov</td>
<td>HW6 due</td>
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<td>23-Nov</td>
<td>25-Nov</td>
<td>No class</td>
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<td>30-Nov</td>
<td>2-Dec</td>
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The instructor reserves the right to make any additions, changes, etc. to the syllabus. Any such changes or additions will be announced in class.