# Syllabus (subject to change)
## Introduction to Statistics and Probability
## Math 111, section 1, CRN 18185
## Spring 2007

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| **Instructor:** | Patrick Vernon | **Meeting Place:** | Kennedy 205 |
| **Office:** | 407 Haliburton | **Meeting Time:** | MWF 10:00-10:50 |
| **Office Phone:** | 843-3161 | **Text:** | Statistics - Principles and Methods |
| | | | Fifth Edition |
| **Email:** | vernonr@rhodes.edu | | |
| **Office Hours:** | MTWR 2:00-3:00pm | **Authors:** | Johnson & Bhattacharyya |

**Course description:** The course will review descriptive statistics, introduce basic techniques of inferential statistics, and explain the theoretical principles behind these techniques. I plan on covering the first 11 chapters of the textbook, with an emphasis on Chapters 4-7.

**Course Prerequisites:** The prerequisite for this course is a solid background in high school algebra and geometry. It is designed for students encountering statistics for the first time.

**Calculators** are permitted on exams. I expect you to perform higher-order tasks on your own and to show your work, but you may use your calculator to check your answer.

**Homework and quizzes:** Homework for each section we cover is given in the attached sheet. I expect you to do the homework, but I will not collect it. I will give around ten short in-class quizzes. The lowest quiz grade will be dropped, and there will be no makeup quizzes. There will usually be two problems on each quiz, and they will come from lecture or the reading or be similar to problems from the homework. For this reason and others, it is in your interest to read the book carefully, to do the homework, and to review your notes. I may give pop quizzes, especially if attendance is low on a given day.

Tentative quiz dates are as follows: Aug 27, Sept 17, Sept 24, Oct 1, Oct 8, Oct 22, Oct 29, Nov 5, Nov 12, Dec 3.

**Projects:** There will be two projects that you will be required to complete. You may work individually or in groups of up to four members. Each group member will receive the same grade. For each project you will be required to complete a draft that will be reviewed by one of the course tutors. All recommended changes should be completed before submitting the final version for grading.

**Exams:** There will be three in-class midterm exams and a comprehensive final exam, scheduled as shown below. These dates are somewhat flexible depending on conflicts, but will likely remain solid. In addition, depending on the pace of the class, the material covered on the exams may change.

| Exam | Date | Material to be covered |
|---|---|---|
| 1 | Friday 7 September | Chapters 1-3 |
| 2 | Wednesday 10 October | Chapters 4-6 |
| 3 | Friday 16 November | Chapters 7-9 |
| Final | 8 Dec, 8:30-11:00am | Comprehensive with added emphasis on material not covered on earlier exams |

**Calculator Policy:** The standard functions of the TI-83 calculator may be used at all times. You may use additional programs installed at the TI83 workshop. If you install or create any other programs, however, you should be prepared to show your work to back it up.

**Grading:** The score you receive on a quiz, exam, or project is based on my assessment of your understanding, which is determined by the work you show. Therefore, simply producing the right answer does not guarantee a good score. Full credit will be granted when you show all of your work, when you get the right answer, and when I can read and understand what you have written. Your grade may also suffer if you include extraneous material, use poor grammar, or write so messily that I cannot follow your work.

  If the Honor Council finds that a student has committed an Honor Code violation in my class, the student will receive no credit for that assignment. I reserve the right to fail anyone convicted of an honor code violation in my class.

**Attendance** is not a formal part of your grade. However, poor attendance often predicts poor performance, so I will take roll. I may use attendance to decide borderline grades. If you miss more than four classes without adequate justification, I may ask the dean to drop you from the class. If attendance is low on a particular day, I may give a pop quiz. Pop quizzes contribute towards your quiz average in the same way that scheduled quizzes do. If you plan on missing a class due to an excused absence, please let me know in advance. If you are unable to attend due to an illness, please provide a doctor's note. Missed quizzes and tests with an excused absence will be dropped, and remaining quizzes and tests will simply be weighed more heavily.

**Your final grade** is determined as follows:

| Midterm Exams: | 18% each |
|---|---|
| Quiz average: | 18% |
| Projects: | 4% each |
| Final Exam: | 20% |

The letter equivalent of your number grade is determined as follows:

| 93-100 | 90-92 | 87-89 | 83-86 | 80-82 | 77-79 | 73-76 | 70-72 | 67-69 | 63-66 | 60-62 | <59 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | A- | B+ | B | B- | C+ | C | C- | D+ | D | D- | F |

**If you get stuck:** I am available during my office hours to answer any questions.  You are more than welcome to stop by my office during these hours without prior notice, but I can ensure less time conflicts if you notify me via email in advance. If you are unable to meet with me during my office hours, please let me know and we can set up a time which is appropriate for both of us.

I encourage you to study with your fellow students.  However, you should do so judiciously.  For example, it would be a mistake to study another student's homework solutions and then go away feeling that you are prepared to work similar problems on your own.  You must be able to work problems independently, as you will be required to do this on the exams.

**This syllabus:** I will attempt to adhere to the syllabus as closely as possible.  However, the syllabus is subject to change, and the most recent copy may be found online at my Rhodes webpage:
http://www.rhodes.edu/mathcs/faculty/vernon/
I will make every effort to notify students of any significant changes to the syllabus.

**The Honor Code:** I take the Rhodes Honor Code seriously, and it is diligently enforced in my classes.  All graded work must comply with the Rhodes Honor Code.  If the Honor Council finds that a student has committed an Honor Code violation in my class, the student will receive no credit for that assignment.   I reserve the right to fail anyone convicted of an honor code violation by the Honor Council.