MATH 214 DEPARTMENT OF MATHEMATICS
UNIVERSITY OF MARYLAND, COLLEGE PARK
General Information for Tim Pilachowski's sections

TEXT: [required] Deveaux, R. D., Velleman, P. F., & Bock, D. E. (2013). *Intro Stats* (4th ed.). Boston, MA: Pearson-Addison Wesley. ISBN-13: 9780321825278
[optional] Beckman, S. (2010). *Mathematics for Elementary Teachers Activity Manual* (3rd ed.). Boston, MA: Pearson-Addison Wesley. ISBN-10: 0-321-64696-7

INSTRUCTOR: Tim Pilachowski TJP@math.umd.edu **BE SURE TO INCLUDE "Math 214" IN THE SUBJECT LINE.**
COURSE INFO & SCHEDULE: follow links from http://www2.math.umd.edu/~tjp/
OFFICE: Math building room 3316, 301-405-5150
OFFICE HOURS: see http://www2.math.umd.edu/~tjp/

Be sure to take advantage of FREE available tutoring in the Math building (room 0301) and in the Math Success program (Sun. thru Thurs., 6 to 9 pm). For schedules, click on the links at http://www-math.umd.edu/undergraduate/resources.html. Old tests are also available through this link.

Math 214 is a 3-credit continuation of Math 212 and in combination with Math 213 forms a comprehensive mathematics content preparation for K-8 education majors. This course is designed for pre-service teachers. The goal of Math 214 is to engage learners in mathematics with an overall aim toward development of a profound understanding of fundamentals. Topics covered in the course will include: data organization, representation, and description; interpretation and comparison of data representations; interpretations of average and variability; sampling methods; randomness; counting principles; experimental and theoretical probability; and tools for instruction of these concepts in an elementary or middle school setting. Students will be given the opportunity to approach topics from multiple perspectives and should strive for deep and connected understanding of the basic concepts underlying probability, data analysis, and statistics.

Quizzes and exams will occasionally require a calculator for arithmetic. Every student **must** bring his or her own calculator (one that is not a phone or other communications device) for quizzes and exams; sharing of calculators during these assessments is *not permitted*. The instructor will not have extra calculators on hand to lend. A graphing calculator will never be *required* for an exam or quiz, but students may find helpful the statistics capabilities of the TI-83 or similar models, particularly during in-class activities.

Expect to spend on an average at least 2 hours on homework per hour of class time (this includes reviewing, doing problems, checking and correcting them and reading the new material for the next class). The practice problems listed on the Course Schedule represent the type of question you should be able to answer for each topic. Students are expected to check their own work and come to class with questions. The beginning of each class will be devoted to questions on the previous night's homework.

Quizzes will be given regularly, and might be given either in-class or as a take-home assignment. Quizzes will be based primarily on homework problems and in-class examples.

Two hourly exams will be given (see dates on the Course Schedule). **Exams from previous semesters of Math 214 may be useful. They are available on the web: click on the links at http://www-math.umd.edu/undergraduate/resources.html.**

Three Projects will be assigned. Due dates are listed on the Course Schedule. Projects should be handed in at the beginning of class on the due date.

The University has a nationally recognized Honor Code, administered by the Student Honor Council. The pledge, approved by the University Senate, reads: "I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination." Unless specifically advised to the contrary, the Pledge should be handwritten and signed on all tests in this course. In conjunction with the University's Code of Academic Integrity, allegations of academic dishonesty will be reported to the Honor Council.

Excused absences will be given only with documentation and only for valid medical reasons, university business, or appearances in court. Excused quizzes will not be used in computing the final grade. Make-up quizzes will not be given. Any unexcused quizzes or exams will be counted as a "0", including the final exam. **Any student with a valid reason to be excused from an exam must contact the instructor prior to the exam and present documentation in the next class session attended**. Messages may be left via email, or by calling the mailroom @ 301-405-5047.

To ensure success in this course students are expected to attend class regularly, do homework as assigned, and seek help when necessary. Many resources are available: textbook, instructor, course coordinator, friends, tutors, old tests available on the web, Learning Assistance Services in the Shoemaker Building, etc. Be thorough and complete when doing homework (checking, correcting, and making note of questions to ask).

The student's grade will be determined by points:

Quizzes	9@10 points each (best 9 out of 12)
Projects	3@20 points each
Hour Tests	3@100 points each
Final Exam	150 points
Total	500 points

The grading scale is:

A: 90 - 100%
B: 80 - 89%
C: 70 - 79%
D: 60 - 69%