MAT 521 Summer Session I 2013

Professor: Terry R. McConnell

Class: MTWTh 2:00-3:45 HL 214

Office: 317F Carnegie.

Phones: office X1499; message (Mathematics Department) X1471;

Email: trmcconn@syr.edu

Web Site: `http://barnyard.syr.edu`

Office Hours: M 9-11, Th 10-11, and by appointment

Course Description: MAT 521. Introduction to Probability and Statistics (3 credits). Algebra of sets. Probability in finite sample spaces. Binomial and multinomial coefficients. Random variables. Expected value and standard deviation. Density functions. Statistical applications. Prerequisite: MAT 397; graduate students should take MAT 625 rather than MAT 521.

Text: Probability and Statistics, by M.H. DeGroot and M.J. Schervish, Addison-Wesley Publishing Company, 4th edition, 2012. We will cover sections 1.5 – 1.10, 2.1 – 2.3, 3.1 – 3.9, 4.1 – 4.6, 5.1, 5.2, 5.4, 5.6, 6.1–6.3

Homework: Some days there will be a quiz consisting of one or two of the even numbered exercises from the section(s) covered the day before. (Answers for odd-numbered problems are given in the back of the text.) **Working many problems is essential for learning mathematics!** Work enough of the odd numbered problems to be sure you understand the material. Work the even numbered problems to prepare for a possible quiz. There should be ample class time to discuss any difficulties with homework problems. Depending on availability of grading assistance we may also collect homework problems.

Attendance: Class attendance is essential for your understanding of the material.

Examinations: There will be two in class examinations during the semester, as well as a final examination covering the entire course.

Grading: Homework/quizzes will count for 25% of the grade, the final exam for 25%, and the tests will count for the remaining 25%.

Students with Disabilities: If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), `http://disabilityservices.syr.edu`, located in Room 303 of 804 University Avenue, or call 315-443-4498 for an appointment to discuss your needs and

the process for requesting accommodations. ODS is responsible coordinating disability-related accommodations and will issue students with documented disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible. You are also welcome to contact me privately to discuss your academic needs although I cannot arrange for disability-related accommodations.

Academic Integrity: The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort. For more information and the complete policy, see `http://academicintegrity.syr.edu`

Religious observances policy. SU religious observances policy recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to are religious observance provided they notify their instructors before the end of the second week of classes. For fall and spring semesters, an online notification process is available through MySlice (Student Services → Enrollment → My Religious Observances) from the first day of class until the end of the second week of class.

Schedule: Here is what we plan to cover in class each day. It may be necessary to depart from this schedule, so please be aware that this is subject to change.

1. Monday 5/20 1.1-1.5
2. Tuesday 5/21 1.6-7
3. Wednesday 5/22 1.7-8
4. Thursday 5/23 1.9-10
5. Tuesday 5/28 2.1-2
6. Wednesday 5/29 2.2-3
7. Thursday 5/30 Review/Catch up
8. Monday 6/3 **Test I**
9. Tuesday 6/4 3.1-3
10. Wednesday 6/5 3.3-4
11. Thursday 6/6 3.4-5
12. Monday 6/10 3.6
13. Tuesday 6/11 3.7
14. Wednesday 6/12 3.8-9
15. Thursday 6/13 Review/Catch up
16. Monday 6/17 **Test II**
17. Tuesday 6/18 4.1-2
18. Wednesday 6/19 4.2-4
19. Thursday 6/20 4.5-6
20. Monday 6/24 5.2,5.4
21. Tuesday 6/25 5.6
22. Wednesday 6/26 6.2-3
23. Thursday 6/27 **Final Exam** (During regular class meeting time and place)