

Course Information for 22S:101 “Biostatistics” Summer 2007

Instructor

Dale Zimmerman, 233 Schaeffer Hall, Office phone 5-0818, Home phone 351-0520, E-mail dale-zimmerman@uiowa.edu

Office Hours

10:00-11:00 am Monday, Tuesday, Thursday; 2:00-3:30 pm Wednesday; or by appointment

Department Information

Department of Statistics and Actuarial Science, 241 Schaeffer Hall, Phone 335-2082

Department Executive Officer

Professor Luke Tierney, 241 SH, Phone 335-0712

Textbook

The required textbook for this course is *Principles of Biostatistics*, 2nd edition, by Marcello Pagano and Kimberlee Gauvreau, 2000, Duxbury Press.

Course Prerequisite — 22M:001 (Basic Algebra) or equivalent.

Course Objective

To learn some of the basic statistical methods commonly used in the health sciences and other biological sciences, so that you can read, interpret, and evaluate elementary statistical analyses reported in the life science literature.

Exams

- 1 80-minute midterm exam, given in class on Friday, June 22
- 1 80-minute final exam, given in class on Friday, July 13

Calculators may be used for exams, and any necessary statistical tables will be provided. One 8.5" × 11" formula sheet (both sides) may be used for each exam. If an exam is missed, a make-up exam will be permitted only if the circumstances of missing the exam satisfy university policies. The final exam will measure knowledge and understanding of material presented after the midterm exam, so in that sense it is not comprehensive.

Quizzes

Four 15-minute quizzes will be given at the beginning of class on June 11, June 15, June 29, and July 6. Policies on calculators, formula sheets, and make-ups for quizzes are identical to those policies for exams.

Homework

Daily homework assignments are an *essential* component of the course. These assignments typically consist of 3 or 4 problems and will be given every day except the day before and the day of an exam. Assignments must be turned in at the beginning of class on the day after they are assigned. Unless prior arrangements are made, late homework will receive a score no higher than 50%. You may work on homework problems together, provided that no outright plagiarism occurs.

Attendance

Attendance at lectures and participation in discussions are expected. Failure to attend class regularly will affect your grade.

Grading

- Midterm Exam, 30%
- Final Exam, 30%
- Quizzes, 20% (5% each)
- Homework and Attendance, 20%

A plus-minus grading system will be used. The previous three times I taught this course the grading scale differed by at most 2% from the following: >97%, A+; 88-97%, A; 85-88%, A-; 82-85%, B+; 77-82%, B; 74-77%, B-; 71-74%, C+; 62-71%, C; 58-62%, C-; 50-58%, D; <50%, F. The grading scale this time will be similar, but not necessarily identical.

Tutors

A list of independent tutors can be found at
<http://www.stat.uiowa.edu/courses/tutors.html> .

Students with Disabilities:

I would like to hear from anyone who has a disability that may require some modification of seating, testing, or other class requirements so that appropriate arrangements can be made. Please see me as soon as possible to discuss this.

Course/University Policies:

Course policies are governed by the College of Liberal Arts and Sciences. University policies regarding Student Rights and Responsibilities can be found at
http://www.clas.uiowa.edu/students/academic_handbook/ .

Detailed Schedule

<i>Date</i>	<i>Reading assignment</i>	<i>Problem assignment</i>	<i>Quiz or Exam</i>
June 5	1, 2.1-2.3.2	2.3, 2.5, 2.7, 2.8	
June 6	2.3.3-2.4, 3.1	2.13, 2.14, 2.15, 2.17	
June 7	3.2, 3.4-3.5	3.5, 3.6, 3.8, 3.9	
June 8	6.1-6.4.3	6.7, 6.8, 6.13, 6.15	
June 11	6.4.4-6.6, 7.1	6.14, 6.17, 6.18	Quiz on Chaps. 1-3
June 12	7.2-7.3	7.8, 7.9, 7.10, 7.14, 7.15	
June 13	7.4-7.5	7.17, 7.18, 7.19	
June 14	8.1-8.4	8.8, 8.9, 8.13	
June 15	9.1-9.2	9.5, 9.9cd, supp	Quiz on Chaps. 6-7
June 18	9.3-9.4, 10.1	9.6, 9.8ab, 9.11	
June 19	10.2-10.4	10.9ab, 10.10, 10.13	
June 20	10.5, 10.7	10.9cde, 10.11	
June 21	Catch-up day		
June 22			Exam on Chaps. 1-3, 6-10
June 25	11.1-11.2.1	11.5, 11.6, 11.8	
June 26	11.2.2-11.3	11.11, 11.12	
June 27	12.1	12.5, 12.7abc, 12.8abc	
June 28	12.2-12.3, 13.1-13.2	12.7d, 12.8d	
June 29	13.3-13.5	13.7, 13.9, 13.10, 13.12	Quiz on Chaps. 11-12
July 2	14.1-14.4	14.3, 14.5, 14.6, 14.7abcde	
July 3	14.6-14.7	14.10, 14.12	
July 5	15.1-15.2	15.7, 15.8, 15.10, 15.12	
July 6	15.3, 15.5	15.17, 15.18	Quiz on Chaps. 13-14
July 9	17.1-17.4	17.5, 17.8	
July 10	18.1-18.2	18.8, 18.9ab, 18.10ab, supp	
July 11	18.3-18.4	18.9cdefgh, 18.10cd, 18.11	
July 12	Catch-up day		
July 13			Exam on Chaps. 11-15, 17-18

Note: “supp” in the problem assignments for June 15 and July 10 refers to a supplemental data collection and analysis problem to be described in lecture.