

Syllabus for ACMS 20340 Statistics for Life Sciences — Fall 2010

Instructor: Donald Brower. My office is 289 Hurley. My email is dbrower@nd.edu.

Meeting: Hayes-Healy, Room 231, MWF 3:00–3:40 pm

Text: *Introduction to Probability & Statistics*. Mendenhall, Beaver, and Beaver, 13th Edition.

Homework: Homework will be assigned weekly. It will be collected in class, usually on Fridays. Late homework will not be accepted. I encourage you to discuss the homework with others and with me. Copying others homework is not permitted.

Attendance: Regular attendance is important. You will be responsible for all the material presented in class, whether or not it is in the book.

Exams: There will be two in class exams on **Wednesday, September 22** and **Friday, November 5**. If you cannot attend an exam for some reason, please let me know as soon as possible so we can resolve it. A note from a university official must also accompany a request for a make-up exam.

Final: The final exam will be **Monday, December 13 at 4:15 pm**. You may reschedule the final only for reasons given in the university policy.

Grading: The course grade will be based on a total of 400 points, distributed as follows.

Exam 1	100 points
Exam 2	100 points
Homework	50 points
Final Exam	150 points

Honor Code: All your work is bound by the provisions of the Notre Dame honor code.

Office Hours: My office hours will be Monday and Wednesday from 4 to 5. If you cannot come at these times, feel free to email me. Also, I am usually free to talk if you catch me in my office some other time.

Topics: Approximately chapters 4–10 of Mendenhall, et al. including: events, sample space, probability, counting rules; conditional probability and independence; random variables; binomial and Poisson distributions; normal distributions; the normal approximation to the binomial; sampling and the Central Limit Theorem; large-sample confidence intervals; large-sample hypothesis testing; small-sample statistics, t -distributions, and the chi-squared distribution.