Syllabus: Statistics 1127 (Statistics for Biological Sciences)

Course: STAT 1127
Semester: Spring 2015
Time: Wednesday, 6:10 ~ 8:40pm,
Location: FNGR 210

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COURSE DESCRIPTION
This is an introductory course in statistical sciences applicable to biomedical and related sciences. The topics include introduction to numerical measures of central tendency and variability, frequency distributions & graphical presentations, probability, random variables, properties of basic probability distributions: binomial, poisson, and normal, sampling distributions, estimation, confidence intervals, testing of hypotheses, linear, multiple regression and correlation.

LEARNING OUTCOMES:
At the end of the semester you should be able to
- apply laws of probability
- understand and use various probability distributions
- construct and interpret large-sample and small-sample confidence intervals
- evaluate evidence for and against hypotheses using statistical tests
- find the least-squares equation for simple linear and multiple regressions, evaluate the models and interpret the results

GRADING: Final grade will be based on
- Homework: 30%, work independently
- Midterm Examination: 30%, closed book.
- Final Examination: 30%, closed book.
- Attendance: 10%

NOTE: IN ACCORD WITH UNIVERSITY POLICY, THE FINAL EXAM WILL BE GIVEN DURING THE FINAL EXAM PERIOD AND NOT THE LAST WEEK OF THE SEMESTER