

**Statistics E102**  
**Fundamentals of Biostatistics**  
**Spring 2016**  
**Tuesdays 5:30pm – 7:30pm**  
**Sever Hall 113**

**Instructors Information**

**Bernard Rosner**

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**Each 2 hour session will be divided into 2 sub-lectures with a 10 minute break in the middle.**

**Texts and Reading Materials**

**Required:** Rosner, B. Fundamentals of Biostatistics, 8<sup>th</sup> edition, 2015. (Available at the Coop and also at Amazon.com). (Includes access to website containing Study Guide and Data Sets)

Rosner, B. Lecture Notes for Fundamentals of Biostatistics, 2016. (Available online from course webpage: <http://isites.harvard.edu/course/ext-24540/2016/spring> )

***Optional:***

Berk, K.N. and Carey P. Data Analysis with Microsoft Excel, 3<sup>rd</sup> Edition, Cengage Learning, 2007.

Acock, AC. A Gentle Introduction to Stata, 4<sup>th</sup> Edition, Stata Press, 2014.

Crawley, M. Statistics An Introduction Using R, 2<sup>nd</sup> Edition, John Wiley, 2015.

**Requirements**

- There will be an in-class **Midterm Exam** (open book) which will count for **30%** of the grade.
- There will be an in-class **Final Exam** (open book) which will count for **40%** of the grade.
- There will be **weekly homework** assignments which will count for **30%** of the grade.
- For **graduate students**, there will a graduate student project based on writing a short paper (5-10 pages) describing the analysis of a data set (*due on the date of the Final Exam, May 10*). This will count for **15%** of the grade. The totality of **Midterm Exam**, **Final Exam** and **HW assignments** will count for **85%** of the grade for **graduate students**.

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Any cases of suspected cheating or plagiarism should be brought to Assistant Dean of Student's attention, Shirley Greene ([shirley\\_greene@harvard.edu](mailto:shirley_greene@harvard.edu)). Please add the following wording to your syllabus:

You are responsible for understanding Harvard Extension School policies on academic integrity ([www.extension.harvard.edu/resources-policies/student-conduct/academic-integrity](http://www.extension.harvard.edu/resources-policies/student-conduct/academic-integrity)) and how to use sources responsibly. Not knowing the rules, misunderstanding the rules, running out of time, submitting the wrong draft, or being overwhelmed with multiple demands are not acceptable excuses. There are no excuses for failure to uphold academic integrity. To support your learning about academic citation rules, please visit the Harvard Extension School Tips to Avoid Plagiarism ([www.extension.harvard.edu/resources-policies/resources/tips-avoid-plagiarism](http://www.extension.harvard.edu/resources-policies/resources/tips-avoid-plagiarism)), where you'll find links to the Harvard Guide to Using Sources and two free online 15-minute tutorials to test your knowledge of academic citation policy. The tutorials are anonymous open-learning tools.

### **Computer Packages**

Excel, Stata and R will be used for this class.