Statistics 330: Probability & Statistics for Computer Science and Engineering

Fall 2013

Lecture Location: Sweeney 1126

Lecture Times: MWF 12:10pm – 1:00pm

Class Website: http://maitra.public.iastate.edu/stat330/fall2013.html

Instructor: Professor Ranjan Maitra

> **E-mail:** maitra@iastate.edu

> **Office:** 2220 Snedecor Hall

> Phone: 515-294-7757

Teaching Assistant: Soyoung Park

> **E-mail:** sypark@iastate.edu

> **Office:**

Office Hours:

> Dr. Maitra: MW 1:10pm-2:00pm, or by appointment

> Park : W 2:10-4 pm, in 2221 Snedecor Hall, or by appointment

Text and References: The required textbook for the class is Michael Baron's *Probability and Statistics for Computer Science* (Chapman & Hall/CRC Press, 2013, Second Edition) which we will use for class lectures as well as for exercises.

My webpage will also contain a link to Professor Heike Hofmann's lecture notes. For your convenience, here is a direct link to Dr. Hofmann's lecture notes:

http://maitra.public.iastate.edu/stat330/hofmannotes.pdf

Content: The course will introduce you to the basic concepts of probability theory, queuing theory, and statistical inference. (Note: in the past, there has not been sufficient coverage of statistical inference. I do hope to cover more this semester.)

Grades: Your performance on homework assignments, two best out of three midterm exams, and one final exam will determine your grade. I may give opportunities for extra credit. I will weigh the homework assignments,

midterms and final exam according to the following percentages when computing the final grade:

Homework: (best ten) 15%

Midterms: (best two) each worth 25%

Final Exam: 35%

Homework Policy: I will assign a problem set each week (roughly). Each homework assignment is worth 10 points. The TA will grade a **random** subset (the same for everybody) of the assigned problems. Homeworks are to be scanned in and turned in at the Blackboard site by 5 pm on the date the homework is due. The library provides free scanning services to all students. **It is your responsibility to ensure that the scanned document is legible and readable by the TA.** Homeworks are not to be turned in in paper form. I will post homework problems and solutions on the course webpage. Because the TA will not check your solution to every problem, I recommend that you compare your answers with the solutions that I post and ASK me or the TA if you have questions.

While I encourage you to collaborate on the homework problems, each student must write his/her own answers independently. Two papers, therefore, will not be identical. If you work with others, please list the names of collaborators in parentheses on your paper underneath your name.

Exams: The three in-class midterms (best two are worth 25% of the final grade) are tentatively scheduled for Friday, September 27, Friday, October 25 and Friday, December 6. These dates may change depending on how quickly I cover the material. The registrar has tentatively set the final exam for Tuesday, December 17 from 12 – 2 pm. The final dates will be set in mid-October, as per the Registrar's website.

Because there are options to drop homeworks and mid-terms, I do not give make-up exams.

The class will follow the following Iowa State University policies:
Academic Dishonesty

The class will follow Iowa State University's policy on academic dishonesty. Anyone suspected of academic dishonesty will be reported to the Dean of Students Office. http://www.dso.iastate.edu/ja/academic/misconduct.html

Disability Accommodation
Iowa State University complies with the Americans with Disabilities Act and Sect 504 of the Rehabilitation Act. If you have a disability and anticipate needing accommodations in this course, please contact (instructor name) to set up a meeting within the first two weeks of the semester or as soon as you become aware of your need. Before meeting with (instructor name),

you will need to obtain a SAAR form with recommendations for accommodations from the Disability Resources Office, located in Room 1076 on the main floor of the Student Services Building. Their telephone number is 515-294-7220 or email disabilityresources@iastate.edu . Retroactive requests for accommodations will not be honored.

Dead Week
This class follows the Iowa State University Dead Week policy as noted in section 10.6.4 of the Faculty Handbook http://www.provost.iastate.edu/resources/faculty-handbook .

Harassment and Discrimination
Iowa State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon race, ethnicity, sex (including sexual assault), pregnancy, color, religion, national origin, physical or mental disability, age, marital status, sexual orientation, gender identity, genetic information, or status as a U.S. veteran. Any student who has concerns about such behavior should contact his/her instructor, Student Assistance at 515-294-1020 or email dso-sas@iastate.edu, or the Office of Equal Opportunity and Compliance at 515-294-7612.

Religious Accommodation
If an academic or work requirement conflicts with your religious practices and/or observances, you may request reasonable accommodations. Your request must be in writing, and your instructor or supervisor will review the request. You or your instructor may also seek assistance from the Dean of Students Office or the Office of Equal Opportunity and Compliance.

Contact Information
If you are experiencing, or have experienced, a problem with any of the above issues, email academicissues@iastate.edu.