Graduate School

Why graduate school?

• Different (better) job.
• Career change.
• Want to learn more.

Preparation

• Undergraduate degree in
  - Statistics
  - Mathematics
  - Related quantitative field
Graduate School

Preparation
Statistics major
- Math 201 and Math 317
- Additional mathematics courses helpful.
- Math 414/415

Preparation
• You need to do well in all your Statistics courses.
• The higher your overall gpa, the better your chances of admission to graduate school.

Preparation
• How you do in Stat 341 - 342, the theory of probability and statistics, is often a good indicator of success in graduate school.
Graduate School

Preparation

• You need to do well on all parts of the Graduate Record Exam (GRE®).

  • www.ets.org/gre

GRE®

• Verbal Reasoning
  - Scores: 200 to 800
  - Revised: 130 to 170

• Quantitative Reasoning
  - Scores: 200 to 800
  - Revised: 130 to 170

GRE

- Verbal Reasoning
- All Test Takers
  • Mean = 465, SD = 117
  • Revised Mean = 151

- Mathematical Sciences
  • Mean = 501, SD = 118
  • Revised Mean = 153
Graduate School

GRE®
• Quantitative Reasoning
  - All Test Takers
    • Mean = 584, SD = 149
    • Revised Mean = 158
  - Mathematical Sciences
    • Mean = 732, SD = 80
    • Revised Mean = 168

GRE®
• Analytic Writing
  - Scores: 0 to 6
  - All Test Takers
    • Mean = 4.1, SD = 0.9
  - Mathematical Sciences
    • Mean = 4.4, SD = 0.9

Letters of Recommendation
• You will need letters of recommendation from at least two faculty members.
  - Academic advisor
  - Course instructor
Graduate School

Preparation
- Admission to graduate school can be highly competitive.
- The stronger your background in undergraduate school the better your chances of getting admitted.

Types of Programs
- Masters only
- Masters and Ph.D.
- Ph.D. only

Types of Programs
- Theoretical Statistics
- Applied Statistics
- Biostatistics or Epidemiology
Graduate School

Theoretical

- Stanford U.
- U. Cal. Berkeley
- U. Chicago
- Harvard U.
- Purdue U.
- U. of North Carolina

Applied

- Iowa State U.
- No. Carolina State U.
- Kansas State U.
- Texas A&M
- Oklahoma State U.
- Florida State U.

Biostatistics

- U. of Washington
- U.C.L.A.
- Harvard School of Public Health
- Johns Hopkins U.
- U. of Iowa
ASA Website

- www.amstat.org
- Follow links to Education – Graduate, Professional, and Continuing Education – Schools offering degrees in statistics.

ISU

- About 25% of undergraduate statistics majors go on to graduate school in statistics or biostatistics.

Where have they gone?

www.stat.iastate.edu/undergrad/careers/degrees.html