

**Mathematics 325**  
**Survey Sampling Methods**  
**Fall 2009**

**12:30 pm–1:45 pm; Tuesday and Thursday, Burruss 130**  
**Instructor: Dr. Steven Garren**

**I. Prerequisite:** MATH 220 or 318.

**II. Instructor's office information**

email:	garrenst@jmu.edu
location:	Roop Hall, room 313
web-site:	<a href="http://www.math.jmu.edu/~garrenst">http://www.math.jmu.edu/~garrenst</a>
office hours:	Monday 2:30 p.m.– 3:30 p.m. Tuesday 9:30 a.m.–10:30 a.m. Wednesday 10:30 a.m.–11:30 a.m. Thursday 9:30 a.m.–10:30 a.m.

**III. Text required**

Scheaffer, Mendenhall, and Ott (2006) *Elementary Survey Sampling*, 6th ed.

**IV. Course objectives**

- Some of the main topics covered are theory and practice of sampling including stratified random samples, discussion of simple random samples, cluster sampling, estimating sample size, ratio estimates, subsampling, two-stage sampling and analysis of sampling error.
- *R* or *Splus* ([www.r-project.org](http://www.r-project.org)) is the required statistical software package used in this course.

**V. Grading**

20%	Homework
20%	Exam I: Thursday, September 17
20%	Exam II: Thursday, October 15
20%	Exam III: Thursday, November 12
20%	Final Exam: Thursday, December 10, 10:30 a.m.–12:30 p.m.

**A. Homework**

- Homework problems are listed on my web-site.
- Students are permitted to work together on homework, without directly copying other students' work.
- All homework scores count toward one's final grade; i.e., no scores are dropped.
- No late homeworks will be accepted.
- Homework may be submitted by hard-copy or by Blackboard via "Digital Dropbox" (but NOT email). Homework submitted by Blackboard must be a .pdf (strongly preferred) or .doc file, but NOT a .docx file. An advantage of electronic homework is a slightly faster response from instructor, but a disadvantage may be less written/typed detail in response from instructor.

**B. Exams**

- Exams are closed book and closed notes.
- The final exam is cumulative.
- At least 80% of the weighting of the exams will come from modifications to the homework problems and in-class examples.

## VI. Miscellaneous

- Calculators are NOT allowed for exams or required homework problems.
- For locations of computers, see  
[www.jmu.edu/computing/labs/locations/index.shtml](http://www.jmu.edu/computing/labs/locations/index.shtml)
- Students may enroll in “auto-grade,” which immediately emails the student his/her grade whenever a (homework, exam, project, or final) grade is recorded electronically.
- Class attendance will be taken each class, and will be emailed to the students via “auto-attendance.”
- The final date to withdraw from this course with a “W” is October 22.
- “WP” and “WF” will NOT be assigned in this course.
- The honor code of the university will be strictly enforced.