

INTRODUCTION TO STATISTICS, MATH 1040

SYLLABUS – Fall Semester 2014

INSTRUCTOR Zeph Smith **EMAIL:** <mailto:zsmith11@bruinmail.slcc.edu>

OFFICE: TB 317 **PHONE:** 801-957-3926

CONSULTATION HOURS: TR 1 – 2:50 pm

INSTRUCTOR WEB SITE: <http://mathslcc.weebly.com/>

MATHEMATICS DEPARTMENT WEB SITE: <http://www.slcc.edu/math/>

TEXT: (Optional) *Elementary Statistics, 12th ed.*, by Mario Triola, Pearson publisher

SOFTWARE Required: *MyStatLab* access for *Elementary Statistics, 12th ed.*, by Mario Triola

CALCULATOR: A calculator that does statistics is necessary for tests and homework. As a minimum it must be able to do averages, standard deviations, and linear regressions. You are responsible for knowing how to use your calculator and will likely need to make use of the manual. Any calculator is allowed, but cell phones and devices that connect to the Internet cannot be used as a calculator on examinations.

SLCC is committed to fostering and assessing the following student learning outcomes in its programs and courses:

- Acquiring substantive knowledge in the field of their choice
- Developing quantitative literacies
- Developing the knowledge and skills to be civically engaged
- Thinking critically
- Communicating effectively

PREREQUISITE: RDG 0990 with a C or better or appropriate Accuplacer, ACT or SAT reading score, **AND** MATH 1010 with C or better or appropriate Accuplacer, ACT or SAT math score within the past year.

DROPS and WITHDRAWALS: The last day to drop classes with a full refund is September 10. Students may withdraw from the course through October 24. No withdrawals will be approved after that date without documented evidence of being unable to complete the course because of health, family, or employment.

GENERAL INFORMATION: The course is a study of statistics using theory, projects and data. The material presented relies on concepts already completed in Intermediate Algebra, so a thorough understanding is expected. Formula use and formula manipulation play a large part in the course. The course includes homework, exams, and a term project. Additional assignments may be assigned by your instructor.

PROJECTS & EXERCISES: The term project and other assignments are posted on the math department web site: <http://slccmathdepartment.weebly.com/>

COURSE OBJECTIVES: This is an introductory course and as a consequence there is emphasis on terminology as well as basic concepts. Common sense and intuition are as important as experience and background. Descriptive statistics that describe data, inferential statistics that make predictions, and probability that provides the theory necessary to generalize sample data to a population are three major themes in this course.

CONTENT:

- Collecting and understanding data
- Organizing and summarizing one variable data
- Probability and probability distributions
- Sampling distributions
- Inference for confidence intervals and hypothesis testing
- Bivariate data and linear regression

Instruction will consist of: lecture, classroom participation, homework assignments, group problem solving, projects, tests, and a team project.

ACCOMMODATIONS: Students with medical, psychological, learning or other disabilities desiring accommodations or services under ADA, should contact the Disability Resource Center (DRC). The DRC determines eligibility for and authorizes the provision of these accommodations and services for the college.

Please contact the DRC at the Student Center, Suite 244, Redwood Campus, 4600 So. Redwood Rd, 84123. Phone: 801-957-4659, TTY: 801-957-4646, Fax: 801-957-4947 or by email: linda.bennett@slcc.edu or for more information visit: <http://www.slcc.edu/drc/index.aspx>

General Education ePortfolio—Each student in General Education courses at SLCC maintains a General Education ePortfolio. Instructors in every GenEd course will ask you to put at least one project from the course into your ePortfolio, and accompany it with reflective writing. It is a requirement in this class for you to add to your ePortfolio, and this syllabus details the assignments and reflections you are to include. Your ePortfolio will allow you to include your educational goals, describe your extracurricular activities, and post your resume. When you finish your time at SLCC, your ePortfolio will then be a multi-media showcase of your educational experience. For detailed information visit <http://www.slcc.edu/gened/eportfolio>.

After you have picked an ePortfolio platform, go to the corresponding help site to watch the tutorials and look at the examples so you can get started on your own: <http://slcceportfolio.yolasite.com>

<http://slcceportfolio.wordpress.com>

<http://slcceportfolio.weebly.com>

If you would like to start your ePortfolio in a computer lab with a person there to help you, sign up online for one of the free workshops at the Taylorsville-Redwood, South, and Jordan libraries: <http://libweb.slcc.edu/refilt/forms/eportfolio>. You may also visit the ePortfolio Lab in the basement of the Taylorsville-Redwood Library during business hours, and staff will help you without an appointment. Finally, questions regarding the ePortfolio can be directed to eportfolio@slcc.edu. This course fulfills the Quantitative Literacy (QL) requirement for the General Education Program at Salt Lake Community College

The signature assignment for this class is the term project.

GRADES: The following standardized breakdown of weights used in the calculation of the course grade is a Math department policy.

Assignment	Percent of final grade
Tests	45%
Homework	10%
Term Project/ePortfolio	15%
Class Activities/Other Assignments	5%
Final Exam	25%

A	100-93%	C	76-73%
A-	92-90%	C-	72-70%
B+	89-87%	D+	69-67%
B	86-83%	D	66-63%
B-	82-80%	D-	62-60%
C+	79-77%	E	Below 60%

HOMework: The majority of the homework will be submitted and graded on-line using the MyStatLab software that accompanies your text. If your book did not come with this software, you will need to purchase it at the college bookstore or at <http://www.pearsonmylabandmastering.com/northamerica/mystatlab/>. The course code is available on your instructor's web page. You will also be required to turn in a selection of textbook homework assignments. These assignments are deemed difficult to answer in MyStatLab and are therefore to be turned in. I will collect them on the test days. The assigned book and online exercises are considered the minimum required for sufficient understanding of the material. Students are encouraged to work more exercises than those assigned. On the day a section is FINISHED in class, the online homework for that section will be due before the start of the NEXT class. Late online homework will be docked 10%. Regular practice is essential for success in mathematics; you should be prepared to spend at least two hours studying outside of class for each hour of class time.

CLASS ACTIVITIES: The exercises/activities are a required component of the course. They provide students with computational and graphical tools that are useful in the preparation of the term project. These will be assigned throughout the semester.

TERM PROJECT: This project gives students an opportunity to bring all the topics learned during the semester together into a single comprehensive assignment. Students will work individually and in teams. From a data set students will select samples to describe and analyze. ****THIS ASSIGNMENT IS THE MATH 1040 SIGNATURE ASSIGNMENT FOR YOUR E-PORTFOLIO****

Student Code of Conduct: All students at SLCC must comply with the Student Code of Conduct:

http://www.slcc.edu/policies/docs/Student_Code_of_Conduct.pdf. In particular, note the Academic Standards on pages 38 and 39 with regards to cheating, misrepresentation, out-of-class work, and plagiarism. In compliance with this document, a student who is academically dishonest will receive an E for this course. Also note the Disorderly Conduct sections on pages 16 and 17.

Electronic Devices in the Classroom:

No video or audio recording in the classroom is allowed without written authorization from the instructor. Cell phones and other electronic devices should be in silence mode during lectures, tests, and final exam. Such devices should not be on the desk during lectures, tests, and final exam. In case of emergency, students should exit the classroom before they e-mail, text, or use their cell phones. If students choose to use a computer or electronic device to take notes, they may do so without distracting their classmates. Computer activities that are not related to the class directly should not be done during class time. Students who text, talk on the cell phone, or use their computers to do activities not directly related to the class will be asked to leave the classroom.

TESTING:

EXAMS: Three cumulative exams will be administered according to the course schedule. You must clearly and completely present your work to receive full credit on these exams. Exams will require calculator use. The formula card from the textbook will be provided. No notes will be allowed.

FINAL EXAM: This course has a departmental final that will be administered according to the college's final exam schedule online at http://www.slcc.edu/schedule/docs/FinalExam_Fall_2014.pdf. Full credit will be awarded on exam problems only if your work can be readily followed and solutions are precise and clearly indicated. It is an SLCC Math Department policy that students attaining a score of less than 60% on the final exam shall receive a grade no higher than "D" for the course.

EXTRA HELP: Statistics is a challenging course, but the methods for success are simple: read the text, participate in class, and keep up on assignments. Many students find that forming study groups with other students is a very effective way for them to master mathematics. If you need extra help, free tutoring is available in the Learning Centers (phone 801-957-4172) at Redwood TB-213 and LIB 044, South 3-174 (phone 801-957-3261), and Jordan Rm. HTB 102 (phone 801-957-2852), or visit: <http://www.slcc.edu/tutoring/index.aspx>. A list of private tutors who may be hired is available in the Learning Centers. The internet is full of resources that could be used for this class. You are encouraged to explore. Individualized and small group tutoring is available (and free) to students through

Focused Tutoring. Students need to apply to be matched with a tutor for the semester. Tutoring can be arranged at other campuses depending on tutor and student schedules. Contact Jennifer Fasy for more information (Jennifer.fasy@slcc.edu; 801-957-4138) or visit: <http://www.slcc.edu/focusedtutoring/index.aspx>