Syllabus for Math-15-E9120	
Semester & Year	Spring 2016
Course ID and Section #	Math-15-E9120
Instructor's Name	Mr. Jon Pace
Day/Time	T TH 6:05 – 8:10 PM
Location	SC 208
Number of Credits/Units	4 units

Contact Information	*Office hours*	M T 4:45 – 5:45 PM in SC 208 In Math Lab W TH 5:00 – 5:50 PM
	Email address	jonothan-pace@redwoods.edu or via Canvas

Textbook Information	*Title & Edition*	Interactive Statistics, 3rd Edition
	Author	Aliaga & Gunderson
	ISBN	ISBN #: 0-13-149756-1 or ISBN 10: 0131497561 ISBN 13: 9780131497566

Course Description (catalog description as described in course outline):

The study of statistical methods as applied to descriptive statistics and inferential statistics. An emphasis on the meaning and use of statistical significance will be central to the course. Students will use frequency distributions, graphs, measures of relative standing, measures of central tendency, measures of variability, correlation, and linear regression to explore descriptive statistics. Students will use the laws of probability and statistical tests (t-tests, chi-square, ANOVA, and regression analysis) to make decisions via hypothesis testing and estimate parameters using confidence intervals.

Special notes or advisories: A TI-83 or TI-84 graphing calculator is required

Student Learning Outcomes (as described in course outline) :

1. Accurately communicate statistical ideas using correct statistical notation, graphs, and vocabulary.
2. Use descriptive and inferential statistics to solve real-world problems.
3. Demonstrate appropriate use of technology in making decisions based upon real-world data.
4. Read and interpret information that contains statistical analysis and be able to communicate these results.
5. Judge the validity of research reported in the mass media and peer reviewed journals

Special Accommodations

College of the Redwoods complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. Please present your written accommodation request at least one week before the first test so that necessary arrangements can be made. No last-

minute arrangements or post-test adjustments will be made. If you have a disability or believe you might
benefit from disability related services and may need accommodations, please see me or contact
Disabled Students Programs and Services. Students may make requests for alternative media by contacting DSPS at 707-476-4280.

Academic Support

Academic support is available at Counseling and Advising and includes academic advising and educational planning, Academic Support Center for tutoring and proctored tests, and Extended Opportunity Programs & Services, for eligible students, with advising, assistance, tutoring, and more.

Academic Honesty

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student's status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct (AP 5500) is available on the College of the Redwoods website at:
www.redwoods.edu/district/board/new/chapter5/documents/AP5500StudentConductCodeandDisciplinaryProcedu
resrev1.pdf Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the college catalog and on the College of the Redwoods website.

Disruptive Classroom Behavior

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process a disruptive student may be temporarily removed from class. In addition, he or she may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct (AP 5500) is available on the College of the Redwoods website at:

www.redwoods.edu/district/board/new/chapter5/documents/AP5500StudentConductCodeandDisciplinaryProceduresrev1.pdf

Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the college catalog and on the College of the Redwoods website.

Emergency Procedures for the <u>Eureka</u> campus:

Please review the campus evacuation sites, including the closest site to this classroom (posted by the exit of each room). The Eureka **campus emergency map** is available at: (http://www.redwoods.edu/Eureka/campus-maps/EurekaMap_emergency.pdf). For more information on Public Safety, go to http://redwoods.edu/safety/ In an emergency that requires an evacuation of the building:

- Be aware of all marked exits from your area and building.
- Once outside, move to the nearest evacuation point outside your building:
- Keep streets and walkways clear for emergency vehicles and personnel.
- Do not leave campus, unless it has been deemed safe by the Incident Commander or campus authorities. (CR's lower parking lot and Tompkins Hill Rd are within the Tsunami Zone.)

   RAVE – College of the Redwoods has implemented an emergency alert system. In the event of an emergency on campus you can receive an alert through your personal email and/or phones at your home, office, and cell. Registration is necessary in order to receive emergency alerts. Please go to https://www.GetRave.com/login/Redwoods and use the "Register" button on the top right portion of the registration page to create an account. During the registration process you can elect to add additional information, such as office phone, home phone, cell phone, and personal email. Please use your CR email address as your primary Registration Email. Your CR email address ends with "redwoods.edu." Please contact Public Safety at 707-476-4112 or security@redwoods.edu if you have any questions.
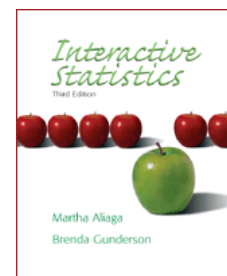
* I reserve the right to change this syllabus at any time.

Materials you will need:

- **Required Text**: *Interactive Statistics*, 3rd Edition, by Aliaga & Gunderson. Published by Prentice Hall. 2006.

  ISBN: 0-13-149756-1

  ISBN 10: 0131497561; ISBN 13: 9780131497566

- **Graphing Calculator**: A Graphing Calculator, such as a TI-83 Plus, TI-84 is required. A limited number of calculators are available **for rent** from the CR Math Department. See our Canvas page for details.

- **Time.** It is critical to your success in this course that you read the book. You should budget this time requirement into your weekly time allotted for this course.

Recommended

1. Math Lab - Hours TBD

2. I would recommend forming study groups. They are a great way to study for exams and do homework problems.

3. The Math 15 course page (for your interest) is located at
   http://msenux.redwoods.edu/mathdept/outlines/current/math15.php

Classroom Environment

It is essential to our class that both students and teacher behave in a manner that will provide a comfortable learning atmosphere. Be respectful of one another. We are all adults and an open, comfortable environment is crucial for learning. Therefore, you should not hesitate to ask any questions or feel embarrassed to ask any question or seek help. **Turn off cell phones before entering the classroom**.

Homework

__Reading:__ Statistics is a class that demands you read the book. Unlike other math classes, you will not be successful unless you read the book. It is recommended that you also work through the examples as you read.

__Written Homework__: Homework will be assigned after every class period. The homework assignments will be posted on Canvas under the module "Homework". It is extremely important that you do the homework as soon as you can and do not fall behind as it is difficult to catch up.

Practice homework assignments will also be posted on Optimath. These will not be graded, they are for your practice and benefit only.

Exams and Quizzes

__Weekly Optimath quiz:__ There will be an Optimath quiz every week. You will have the entire week to do the quiz and you can attempt the quiz as many times as you like.

__Exams__ — We will have 4 or 5 exams throughout the semester covering roughly 3 chapters each.

__Final Exam__ — There will also be a comprehensive Final Exam on the last day of class.

Final Exam: Tuesday, May 10th @ 6:05 – 8:05 PM

Projects

There will be 3 projects throughout the semester that involve analyzing data, building appropriate graphs, and presenting your study in a college level written paper. Project details and rubric will be provided for each project.

Grades

Your final grade will be determined as follows:

OPTIMATH/ In-class Quizzes:	15 %
Homework:	20 %
Data Projects:	15 %
Exams:	35 %
Final Exam:	15 %

The grade breakdown is as follows:

A	93 - 100%	C+	77 - 79%
A-	90 - 92%	C	70 - 76%
B+	87 - 89%	D	60 - 69%
B	83 - 86%	F	0 - 59%
B-	80 - 82%		

Mathematics Department Policy Regarding "Faculty Withdrawal" of Students after Census Day

It is the policy of the College of the Redwoods Math Department to exercise a "Faculty Withdrawal" for any student who has missed more than 15% of the class meeting time (prior to the drop deadline), due to the severely diminished likelihood of a successful outcome in the course. It is important to note that, if it is the student's intention to withdraw from the course, the responsibility remains with the student to ensure the proper paperwork has been filed – that is, students are not to assume the teacher will file the "Withdrawal" automatically.

Guidelines for Homework

Here are some very general instructions for how I want you to do your homework:

Name
Class
Week

1. **You must use a pencil (NO PENS),** and erase carefully, when necessary.

2. I must be able to read your work. If I cannot read your writing, you will not get credit for that problem.

3. You must answer questions in complete, grammatically correct sentences when appropriate. More explanation is almost always better than less explanation.

4. Show your work – *__do not just turn in a list of answers__*.

* I reserve the right to change this syllabus at any time as I see fit.

Math-15-E9120, Spring 2016
1st – Half Schedule

Date	Topics (reading)	Homework Due Date
Week #1		
Jan. 19th	Class Intro, Sections 1.1, 1.2	Tuesday, Jan. 26th
Jan. 21st	Sections 1.3, 1.4 (p: 1 – 52)	
Week #2		
Jan. 26th	Sections 1.4	Tuesday, Feb. 2nd
Jan. 28th	Section 1.4 practice Sections 2.1 – 2.4 (p: 83 – 97)	
Week #3		
Feb. 2nd	Section 2.5 – 2.8 (p: 98 – 126)	Tuesday, Feb. 9th
Feb. 4th	Sections 3.1 – 3.5 (p: 145 – 182)	
Week #4		
Feb. 9th	**Exam #1** Sections 4.1 – 4.3 (p: 212 – 235)	Tuesday, Feb. 16th
Feb. 11th	Sections 4.4 – 4.5 (p: 238 – 281)	

Date	Topics (reading)	Homework Due Date
	Week #5	
Feb. 16th	Sections 5.1 – 5.3, part of 5.4 (p: 299 – 333)	Tuesday, Feb. 23rd
Feb. 18th	Chapter 5 practice Sections 13.1 – 13.6 (p: 808 – 839)	Thursday, Feb. 25th
	Week #6	
Feb. 23rd	Chapter 13 practice, Exam 2 review	
Feb. 25th	**Exam #2,** Sections 6.2 – 6.3	
	Week #7	
Mar. 1st	Section 6.3 practice, Section 6.4 (p: 357 – 394)	Tuesday, Mar. 8th
Mar. 3rd	Section 7.5 (p. 454 – 485)	Thursday, Mar. 8th
	Week #8	
Mar. 8th	Section 7.5 (p: 454 – 485)	Thursday, Mar. 8th
Mar. 10th	Sections 8.2 – 8.3 (p.501 – 530)	Tuesday, Mar. 22nd
Spring Break: Mar. 14 – Mar. 18		

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Math-15-E9120, Spring 2016
2nd – Half Schedule

Date	Topics (reading)	Homework Due Date
	Week #9	
Mar. 22nd	Section 8.4 (p. 531 – 544)	<mark>Thursday, Mar. 24th</mark>
Mar. 24th	Sections 9.2 – 9.3 (p. 564 - 582)	<mark>Thursday, Mar. 31st</mark>
	Exam 3: Take-home exam Ch. 6 - 8	**Due Tuesday, Mar. 29th**
	Week #10	
Mar. 29th	Sections 9.4 – 9.6 (p. 583 – 607)	Tuesday, Apr. 5th
Mar. 31st	Sections 10.1 – 10.3 (p. 613 – 639)	
	Week #11	
Apr. 5th	Sections 10.4 – 10.5 (p. 639 – 655)	Tuesday, Apr. 12th
Apr. 7th	Sections 11.1 – 11.5 (p. 669 – 728)	
	Week #12	
Apr. 12th	Sections 12.1 – 12.4 (p. 744 – 765)	Tuesday, April 19th
	Exam 4: Take home exam Ch. 9 – 11	_____ <mark>**Thursday, Apr. 14th**</mark>

Date	Topics (reading)	Homework Due Date
	Week #12 (Continued)	
Apr. 14th	Sections 12.5 – 12.6 (p. 765 – 784)	Tuesday, Apr. 19th
	Week #13	
Apr. 19th	Sections 13.7, 13.9 – 13,10 (841 – 865, 868 – 888)	Tuesday, Apr. 26th
Apr. 21st	Ch. 13 practice, Sections 14.2 – 14.3 (p. 921 – 940)	
	Week #14	
Apr. 26th	Sections 14.4 – 14.5 (p. 940 – 966)	Tuesday, May 3rd
May 28th	Ch. 14 practice Exam 5 review	
	Week #15	
May 3rd	**Exam 5**	
May 5th	Final Exam Review	
Final Exam: Tuesday, May 10th @ 6:05 – 8:05		

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