

STAT 1  
INTRODUCTION TO STATISTICAL METHODS  
4.5 UNITS

YUBA COLLEGE  
SPRING 2015  
SECTION 0744

THIS SYLLABUS WAS UPDATED ON 04-13-2015

**Instructor:** Ivan Zaigralin

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**Office:** SF 203, TTh 3:20 pm - 4 pm. You must make an appointment 48 hours prior to the meeting.

**Class Meetings:** SF 203, TTh 1:00 pm - 3:15 pm.

**Required Materials:** *Essentials of Statistics, 5th Edition*, by Triola (online portion not required). The students are responsible for reading every section covered by the course outline at the end of the syllabus.

**Prerequisite:** MATH 52.

**Catalog Description:** The use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education.

**Student Learning Outcomes:** Upon successful completion of this course, the student will be able to formulate decisions about rejections or failures to reject hypotheses based on data/information provided.

**Attendance:** To succeed in this course, it is crucial that you come to class every day, alert and prepared to learn. Roll will be taken at the beginning of each class session. If you arrive after the class has started, please enter the room quietly and sign the roster at the end of the class. If you miss more than a half of a class session, you will be considered absent for that day. If you miss two or more classes during the first two weeks without notifying me or the division secretary in advance, you will be dropped from the class. **If you miss four or more class sessions any time during the semester, you will be dropped from the class.** Exceptions will be made for documented cases of grave illness and/or family emergency.

**Homework:** Homework serves as practice and will prepare you to do your best on quizzes and tests. Homework will be assigned (almost) every class period and collected on Thursdays at the beginning of the class session. No make-up homework will be collected for any reason, but 2 lowest homework scores will be dropped. Homework will be graded for completeness and the amount of detail. **Homework is crucial for learning statistics as well as for succeeding in this class.** Doing all homework is probably the most effective way to raise your test grades. You are welcome to work in groups while solving the homework, but you must submit your own work.

**Lab:** You will be working on the labs during our lab time in class and should be able to complete the labs in class. No make-up labs will be given for any reason, but 2 lowest lab scores will be dropped. Together, the labs will account for 10% of the class grade.

**Quizzes:** There will be 4 quizzes given. No make-up quizzes will be given for any reason. The lowest quiz score will be dropped and the three highest scores together will be worth 10% of the class grade.

**Tests:** There will be 4 50-minute tests. Each test will be worth 10% of the class grade. Makeup tests will be given in documented cases of grave illness and/or family emergencies.

**Final:** The final exam will be given on May 14, Thursday, 2:00 pm - 3:50 pm. It will be worth 30% of the class grade. **You must attend the final in order to pass the class. If you miss the final, then you will get an F for the class.**

**Grading:**

Letter Grades		Grade Breakdown	
A	90-100%	Tests	40%
B	80-89%	Homework	10%
C	70-79%	Quizzes	10%
D	60-69%	Lab	10%
F	0-59%	Final	30%

**Getting Help:** If you have a question or a concern not addressed in this syllabus, please contact your instructor via email. Moreover, the campus provides some resources to help you study:

- (1) Hard Math Cafe Annex in room 702 and the Hard Math Cafe in room 700 provide drop-in tutoring and can be a place to study individually or in groups.

- (2) The College Success Center in the LRC offers drop-in tutoring and sign-up small-group tutoring.
- (3) The MESA program (Math Engineering Science Achievement) in room 701 strives to help underrepresented and/or low-income students foster and develop their skills in science, engineering, and mathematics.

**Cell Phones, Computers:** Cell phones are prohibited. The use of computers and tablets will be tolerated during regular class meetings as long as they are completely silent and don't distract other students. **During quizzes, tests, and the final, basic calculators will be required and all other technology prohibited. A basic calculator cannot have any graphing or statistical functions.**

**Accommodations:** If you have a learning disability, a physical disability, or other special needs, please let me know as soon as possible if you need special accommodations (such as extra time for tests). I will do my best to accommodate all needs verified through Disabled Students Programs and Services.

Students have the right to request reasonable modifications to college requirements, services, facilities or programs if their documented disability imposes a functional educational limitation or impedes access to such requirements, services, facilities, or programs. A student with a disability who will be requesting modification, accommodation, or access to an auxiliary aid is required and responsible for identifying himself/herself to the instructor and, if desired, to the Disabled Students Programs and Services (DSPS office). In either event, the student is responsible for providing appropriate documentation of his/her disability. Students who consult or request assistance from the DSPS office regarding specific modifications, accommodations or use of auxiliary aid will be required to meet timelines and procedural requirements established by the DSPS office.

**Academic Honesty:**

All instances of plagiarism and cheating will result in the score of zero for that homework, quiz, or test, and will be reported to the Vice President's Office.

**Tentative Outline:** Changes will be announced in class.

TUESDAY		THURSDAY	
Jan 13th 1.1, 1.2, 1.3	<b>1</b>	15th <b>Quiz 1</b> , 1.4 (1 more day to add classes)	<b>2</b>
20th 2.1, 2.2, 2.3	<b>3</b>	22nd 2.4	<b>4</b>
27th <b>Quiz 2</b> , 3.1, 3.2, 3.3	<b>5</b>	29th 3.4 (1 more day to drop without "W")	<b>6</b>
Feb 3rd <b>Test 1</b> , 4.1, 4.2	<b>7</b>	5th 4.3, 4.4	<b>8</b>
10th 4.5, 4.6	<b>9</b>	12th <b>Review</b>	<b>10</b>
17th <b>No classes</b>		19th <b>Quiz 3</b> , 5.1, 5.2	<b>11</b>
24th 5.3, 5.4	<b>12</b>	26th <b>Review</b>	<b>13</b>
Mar 3rd <b>Test 2</b> , 6.1, 6.2	<b>14</b>	5th 6.3	<b>15</b>
10th 6.4, 6.5	<b>16</b>	12th 6.6	<b>17</b>
17th 6.7	<b>18</b>	19th <b>Review</b>	<b>19</b>
24th <b>Review</b>	<b>20</b>	26th <b>Test 3</b> , 7.1, 7.2	<b>21</b>
31st <b>Spring Recess - No classes</b>		Apr 2nd <b>Spring Recess - No classes</b>	
7th 7.2, 7.3	<b>22</b>	9th 7.4, <b>Review</b>	<b>23</b>
14th 8.1, 8.2	<b>24</b>	16th <b>Quiz 4</b> , 8.3 (1 more day to drop with "W")	<b>25</b>
21st 8.4, 8.5	<b>26</b>	23rd <b>Review</b>	<b>27</b>
28th <b>Test 4</b> , 9.3	<b>28</b>	30th 9.4	<b>29</b>
May 5th 10.1, 10.2	<b>30</b>	7th 10.3	<b>31</b>
12th <b>Review</b>	<b>32</b>	14th <b>Final</b> (2:00 pm - 3:50 pm)	