

# MATH 57 – Integrated Statistics 2 (Statway) - De Anza College - Spring 2016

## Instructor:

Doli Bambhania

Email: bambhaniadoli@fhda.edu

Phone: (408) 864-5382

Office: S43-A

Office Hours: Monday through Thursday: 12:30 – 1:20; or by appointment

## Course Materials (bring to class EVERY day):

- Statway Modules 7-12 book
- TI83/TI84 graphing calculator

## Course Description:

This course is the second of a two-course sequence in the study of statistical methods integrated with algebraic tools to prepare students to analyze processes encountered in society and the workplace. This course covers statistical inference. Topics include point and interval estimation, experimental design and hypothesis testing. Students are expected to implement technology to perform calculations to organize data in order to make statistical conclusions. This sequence of courses is intended for students intending to transfer to the CSU or the UC system and who are not planning on majoring in a science, technology, engineering, or mathematics related discipline.

## Prerequisite:

Satisfactory completion of Math 217 with a grade C or better.

## Attendance & Classroom Policies:

Attendance is of utmost importance for success in this class. You are expected to attend every class meeting on time. Students are allowed a maximum of 4 absences. Arriving late or leaving early are calculated as  $\frac{1}{2}$  an absence.

## Grading:

### • In-class Activities and Participation (30 pts)

Each class will have activities and exercises that are worked on in groups. Credit will be given for active participation in these activities. Your book will be checked periodically for orderly completion of all in-class work. You will also be graded on your participation in classroom discussions and your contribution to group work in class.

### • Take-it-Homes (60 pts)

These exercises are assigned for homework and due at the beginning of the next class. Take-it-home exercises will not be accepted late unless they are accompanied by a late coupon. You will be given 4 late coupons at the beginning of the quarter to use when needed.

### • Checkpoints on [pathways.carnegiehub.org](http://pathways.carnegiehub.org) (60 pts)

Checkpoints are computer exercises that are delivered via Pathways. Please log in to your pathways as usual and add a course with enrollment key '6WGX-3WV6'. You should strongly consider spending time on Pathways every day. This will not only reinforce what happened in class but also prepare you for future class activities. Your completion of the exercises preceding the Checkpoints will prepare you to do well on the Checkpoints. The due dates for the checkpoints are listed within Pathways.

### • Exams (4 at 50 pts each)

4 in-class 1-hour exams will be given. **No make-ups will be allowed.** Your lowest exam score will be replaced by the final exam score if the final exam score is higher. You may bring a half sheet of notes in your own handwriting to each exam.

### • Labs (50 pts)

Lab classes will be held in the math computer lab: S44. You will use Minitab and other statistical software in analyzing data and learning statistical models. You are to work in groups of size 2-3. Computer labs can be done in groups and are due by the end of class. If you do not finish the lab, or are absent, you can work on the lab and submit it by the Monday following the lab. After that, labs will not be accepted.

### • Final Exam (100 pts)

Our final exam will be in two parts. Part I will be a final exam written by Carnegie and taken during the lab in Week 11, worth 20% of your final exam grade. Part II will be done in class during finals week and will be worth 80% of your final exam grade. You may use a full sheet of notes on Part II of the final exam.

### Grading Weights & Policy:

Grading will be based on the following criteria. **Grades are not negotiable.**

Item	Points
In-Class Activities and Participation	30
Take-it-Homes: top 30 @ 2 points each	60
Checkpoints on pathways	60
Exams: 4 @ 50 points each	200
Labs: 5 @ 10 points each	50
Final Exam	100
<b>TOTAL</b>	<b>500</b>

Overall Percentage	Your grade
97% or greater	A+
92 – 97%	A
89 – 92 %	A-
87 – 89 %	B+
82 – 87 %	B
79 – 82 %	B-
75 – 79 %	C+
70 – 75 %	C
55 – 70 %	D
less than 55%	F

### Drop/Withdrawal Policy:

It is your responsibility to officially drop or withdraw the course if you choose not to complete it. See the important drop dates on the calendar.

### Classroom Conduct:

Human beings are not great at multitasking. Math requires singular focus. Your full attention during lecture and participation in class activities is expected. Disruptive classroom behavior may include (but is not limited to) the following: talking when it does not relate to the discussion topic, sleeping, reading non-class-related material, eating or drinking, monopolizing discussion time, refusing to participate in classroom activities, texting, and engaging in any other activity not related to the classroom activity. You are expected to silence and put away your electronic devices. If your device causes disruption in any way, it may be confiscated!

### Academic Integrity:

Students are expected to be honest and ethical at all times in the pursuit of academic goals. Please see <http://www.deanza.edu/studenthandbook/academic-integrity.html>. Any instances of cheating or plagiarism will result in disciplinary action, which may include recommendation for dismissal. You are encouraged to work together on homework but simply copying down answers from another student's homework is not only wrong, but will be of no help to you on the quizzes and exams! Cheating on a quiz or an exam will result in getting a 0 on it, an F in the course or dismissal from the class. Also, each incident of cheating will be reported to the Dean of the Physical Science, Mathematics and Engineering Division for further action.

### Disability-Related Accommodation:

If you feel that you may need an accommodation based on the impact of a disability, you should contact me privately to discuss your specific needs. Also, please contact Disability Support Services (864-8753) or Educational Diagnostic Center (864-8839) for information or questions about eligibility, services and accommodations for physical (DSS), psychological (DSS) or learning (EDC) disabilities.

### Extra Help:

**Do not wait** to get extra help. Contact either instructor via email or in person. The Math Science Tutorial Center is located in S43 and you may be able to get help there. Don't forget that your classmates are also a great resource.

### Student Learning Outcomes (SLOs):

1. Identify, evaluate, interpret and describe data distributions through the study of sampling distributions.
2. Collect data, interpret, compose and defend conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.

## Math 57 - Integrated Statistics 2 (Statway) - Spring 2016 - Tentative Calendar

	Monday	Tuesday	Wednesday	Thursday	Friday
Apr	Intro Review of Normal Distrib 4	Binomial Distribution 5	7/8.1.1 6	7/8.1.2 7	11
Apr	7/8.2.1 11	7/8.2.1 7/8.2.2 12	Lab 1 13	7/8.2.2 14	Sunday, Apr 17: Drop Deadline 15
Apr	7/8.3.1 18	7/8.3.2 19	Lab 2 20	7/8.3.3 21	22
Apr	7/8.3.4 25	Review 26	Module 7/8 Exam 27	9.1.1 28	29
May	9.1.2 2	9.2.1 3	9.2.2 4	9.3.1 5	6
May	9.3.2 9	Review 10	Lab 3 11	Module 9 Exam 12	13
May	10.1.1 16	10.1.2 17	10.2.1 18	10.2.2 19	20
May	10.2.3 23	10.3.1 24	Lab 4 25	10.3.2 26	Withdraw Deadline 27
May/Jun	Memorial Day Holiday No class 30	10.4.1 31	Review 1	Module 10 Exam 2	3
Jun	11.1.1 11.1.2 6	11.1.2 11.1.3 7	Lab 5 8	11.2.1 9	10
Jun	11.2.2 13	Review 14	Final Exam - Part I Carnegie Final 15	Module 11 Exam 16	17
Jun	Finals Week no class 20	Final Exam - Part II 1:45 - 3:45 21	Finals Week no class 22	Finals Week no class 23	24