STATISTICS

1. Computing your Final Grade
2. Topics since Test 2
3. Format of Final Exam

Class Notes: Prof. G. Battaly, Westchester Community College, NY

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A	90+
B+	85-89
B	80-84
C+	75-79
C	70-74
D	60-69
F	< 60

FINAL GRADE

$$FG = \frac{2}{3}CA + \frac{1}{3}FE$$

$$3\,FG = 2\,CA + FE$$

$$FE = 3\,FG - 2\,CA$$

Use to determine what grade you need on the FE to get the grade you would like in the course, FG.

eg: For FG of B+ if CA=82:

FE = 3(85) - 2(82) = 91

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FE = 3 FG - 2 CA

eg: If your CA is 82 and you would like a B+, then:

You will need FE = 3(85) - 2(82) = 91 on the Final Exam

eg: If your CA is 84 and you would like a B+, then:

You will need FE = 3(85) - 2(84) = 87 on the Final Exam

eg: If your CA is 84 and you are happy with a B, then:

You will need FE = 3(80) - 2(84) = 72 on the Final Exam
to maintain your B.

FINAL EXAM

Class Notes

CONTENT: Focus on topics since Test 2

2 samples		10.2 Pooled-t test 10.3 Non pooled-t test 10.4 Mann-Whitney 10.5 Paired-t Test
2 variables: predictor, response	x y	14.2 Linear Regression Equation 14.3 Coef of Determination 14.4 Correlation Coefficient
> 2 samples		16.3 ANOVA

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FINAL EXAM REQUIREMENTS:

Class Notes

MECHANICS: Use textbook and calculator

1. Part 2 comes first, on Tuesday, Apr 30, in class. Complete 4 of the 6 problems.

2. Part 1 is online and due by the end of day (11:59 pm) on Thursday, May 2.

FINAL EXAM FORMAT

PART 1: Answer 16 questions of 19

40 pts
@ 2.5 pt each

Short Answer:
Multiple Choice, Select all Correct, True/False, Matching

PART 2: Answer 4 questions of 6

60 pts
@ 15 pt each

Word Problems:
Which Procedure?
Assumptions, Hypotheses
Sketch with significance level, df
*Test Statistic: Equation, substitution, value, table**
p-value (or M_T), Reject or not
Conclusion
Or: Regression Equation - write equation with values for slope and intercept
Scale axes! useless w/o scale
For prediction, write equation, substitution, ans

**ANOVA table*

16.1 - 16.3 One-Way ANOVA

Complete the ANOVA table.

Source	df	SS	MS=SS/df	F=MSTR/MSE F statistic
Treatment k - 1	2			
Error n - k	8		18.0	
Total n - 1		184		

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16.1 - 16.3 One-Way ANOVA

Complete the ANOVA table.

Source	df	SS	MS=SS/df	F=MSTR/MSE F statistic
Treatment k - 1	2	40	20	1.111
Error n - k	8	144	18.0	
Total n - 1	10	184		

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16.1 - 16.3 One-Way ANOVA

Complete the ANOVA table.

Source	df	SS	MS=SS/df	F=MSTR/MSE F statistic
Treatment k - 1		37.84		
Error n - k	20			
Total n - 1	24	173.04		

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16.1 - 16.3 One-Way ANOVA

Complete the ANOVA table.

Source	df	SS	MS=SS/df	F=MSTR/MSE F statistic
Treatment k - 1	4	37.84	9.46	1.40
Error n - k	20	135.2	6.76	
Total n - 1	24	173.04		

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