

STATISTICS

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

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A 90+

FINAL GRADE

B+ 85-89

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

B 80-84

$$3 FG = 2 CA + FE$$

C+ 75-79

$$FE = 3 FG - 2 CA$$

C 70-74

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

D 60-69

F < 60

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

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

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$$FE = 3\text{ FG} - 2\text{ CA}$$


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


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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
distribution		13.2	Chi-Squared Test
2 variables: predictor, response	x y	14.2	Linear Regression Equation
		14.3	Coef of Determination
		14.4	Correlation Coefficient
3+ samples		16.3	ANOVA

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FINAL EXAM REQUIREMENTS:**MECHANICS: Use textbook and calculator**

1. Part 1 (40 pts) is online, available all day on Thursday, 12/19, and due by the end of day (11:59 pm). (Timed)
2. Part 2 (60 pts) in class (in person) on Thursday, 12/19. Complete 4 of the 5 problems.

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**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 5**

60 pts

@ 15 pt each

*Word Problems:**Which Procedure?**Assumptions, Hypotheses**Sketch with significance level, df**Test Statistic: Equation, substitution, value, table***Extras: df, Differences (paired-t),**Expected Values (Chi-squared)**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*

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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			
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
$k - 1$ Treatment		37.84		
$n - k$ Error	20			
$n - 1$ Total	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
$k - 1$ Treatment	4	37.84	9.46	1.40
$n - k$ Error	20	135.2	6.76	
$n - 1$ Total	24	173.04		

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