



## LEARNING OUTCOMES



LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
14. Perform $\chi^2$ tests for independence or homogeneity.	Lectures Small Group Discussions and/or Projects The Use of TI 84 Graphics Calculator Homework Quizzes	Exams Quizzes Homework Projects
15. Demonstrate proficiency in the use of the TI 84 calculator. a. A student must be able to use the following commands on the TI 84 calculator: 1-Var Stats $L_1$ [and $L_2$ where appropriate] binompdf (n,p,x) and binomcdf (n,p,x) normalcdf (LH,RH), tcdf (LH,RH,df), and $\chi^2$ cdf (LH,RH,df) invNorm (area) [and on the TI-84, invT (area)] LinReg(ax+b)	Lectures Small Group Discussions and/or Projects The Use of TI 84 Graphics Calculator Homework Quizzes	Exams Quizzes Homework Projects
16. Determine whether row variable is independent of column variable in a 2-Way Table using $\chi^2$ Test of Independence and draw a conclusion using the p-value method.	Lectures Small Group Discussions and/or Projects The Use of TI 84 Graphics Calculator Homework Quizzes	Exams Quizzes Homework Projects

17.

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18. Construct Confidence Intervals to estimate ponBT/F1 12 Tf1 0 0 1 20		

17. Sampling Distribution and Estimation
18. Central Limit Theorem
19. Estimating Pop Proportions
20. Estimating Pop Means: Known
21. Estimating Pop Means: Not Known
22. Basics of Hypothesis Testing
23. HT: Proportions
24. HT: Mean Known
25. HT: Mean Not Known
26. Correlation
28. Regression
28. Multinomial Experiments: Goodness-of-Fit
29. Contingency Tables
30. HT: Two Means Independent

**LEARNING MATERIALS:**

Textbook:

Illollosky, Barbara and Dean, Susan. 2016. Introductory Statistics. Openstax

Calculator:

TI-84 (Plus or Silver Edition) Graphics Calculator. If a student has a TI-83+, they do not need to buy a TI-84+.

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

**COURSE APPROVAL:**

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Revised by: Edwina Smith, Professor of Mathematics	Date: 4/2001
Revised by: Edwina Smith, Professor of Mathematics	Date: 1/2004
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VPAA/Provost or designee Compliance Verification:	Date: 8/24/2017



*. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.*