SINCLAIR COMMUNITY COLLEGE DAYTON, OHIO

DEPARTMENT SYLLABUS FOR COURSE IN

MAT 0450 – INTRODUCTORY STATISTICS BOOSTER (1 CREDIT HOUR \equiv 2 CONTACT HOURS)

1.	COURSE DESCRIPTION:	This course is taken in conjunction with MAT 1450, Introductory Statistics. This course reviews prerequisite concepts for the topics in MAT 1450. Each prerequisite concept is covered in this course just prior to being needed in MAT 1450. The topics covered in this course include use of summation notation, evaluation of algebraic expressions, rounding rules, solving equations and inequalities with square roots, extracting information from tables and graphs.	
2.	COURSE OBJECTIVES:	This is a course of study that allows students to take Introductory Statistics simultaneously by providing just-in-time remedial mathematical support. The course is designed in the hope of motivating students who would otherwise need to complete Intermediate Algebra before getting to the college level course. This course focuses on areas where students are struggling and reinforces the college-level material.	
3.	PREREQUISITE:	Satisfactory score on Mathematics Placement Test or grade of "C" or better in MAT 1270.	
4.	ASSESSMENT	Grades will be calculated as follows:In-class group work* 30% Out-of-class assignments 70% Total 100% The following grading scale will be used:A $90.0\% - 100.0\%$ B $80.0\% - 89.9\%$ C $70.0\% - 79.9\%$ D $60.0\% - 69.9\%$ F $0 - 59.9\%$	
5.	CALCULATOR:	A scientific or graphing calculator is required.	
6.	MAT 1450 TEXT:	THE BASIC PRACTICE OF STATISTICS , Seventh Edition Moore/Notz/Fligner Macmillan Education W. H. Freeman and Company Adopted: Fall 2015	
7.	PREPARED BY:	Craig Birkemeier, Robert Chaney, Wendy Cheng	

Effective: Spring 2017

*In-class group work is embedded in the weekly worksheet. The grading should be based on its completion. However, the out-of-class assignments should be graded based on the correctness.

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CLASS SCHEDULE FOR COURSE IN **MAT 0450 – INTRODUCTORY STATISTICS BOOSTER** (1 CREDIT HOUR \equiv 2 CONTACT HOURS)

Week	Co-Requisite Content	MAT 1450 Content
1	Statistical Distributions	Chapter 1 Picturing Distribution with Graphs
	Rounding Numbers	Chapter 2 Deserioing Distributions with Nullibers
	Square Roots/Radicals	
2	Use Summation Notation	Chapter 2 Describing Distributions with Numbers
3	Solve Linear Equations and Inequalities (with fractions) Convert Variables	Chapter 3 The Normal Distributions
4	Linear Equations	Chapter 4 Scatterplots and Correlation
	More on the Sigma Notation (Σ)	Chapter 5 Regression
5	Exam 1 Practice Problems	Chapter 5 Regression Test 1
6	Sets and Set Notation	Chapter 6 Two-Way Tables
	Union and Intersection of Sets	Chapter 8 Producing Data: Sampling Chapter 12 Introducing Probability
	Two-Way Tables	
7	Sample Space and Basic Probability Rules	Chapter 12 Introducing Probability Chapter 13 General Rules of Probability
8	Convert Variables from \overline{X} to Z	Chapter 15 Sampling Distributions
	Predict the Change in the Value of a Fraction	
9	Exam 2 Practice Problems	Test 2 Charter 16 Confidence Internals: The Design
	Plus-Minus Notation/Evaluating Expressions and Critical Thinking	Chapter 16 Confidence Intervals: The Basics
10	Comparison of Decimal Numbers (P-Value)	Chapter 17 Tests of Significance: The Basics
	Equations with Square Roots (Solve for the Sample Size with a	Chapter 18 inference in Practice
	Desired Margin of Error)	
11	Differentiating Matched Pairs from Two-Sample Problems	Chapter 20 Inference about a Population Mean
	The T-Table	
12	Exam 3 Practice Problems	Test 3 Chapter 21 Comparing Two Means
13	Solve Equations with Square Roots (Test Statistics for Proportions)	Chapter 22 Inference about a Population Proportion
14	Use the Summation Formula to Find the Value of Chi-Square Test	Chapter 25 Two Categorical Variables: The Chi-
	Statistics	Square Test
15	Exam 4 Practice Problems	Test 4
4 -		
16	Review/Study Hall	