

**Final Exam Outline**  
**Research Informed Practice II**  
**Summer 2022**

**General Information**

- You will have full class-time to complete the exam
- The final will include 4-5 questions total, but each will have a number of sub questions. On the exam, I will state the specific point values for each question.
- The final practice problem sets include the types of questions that will be included on the final. There will be a combination of conceptual questions and questions involving calculations. You do not need to write in complete sentences unless specifically stated. I encourage you to show your work, as there is opportunity for partial credit.
- There will be 2-3 optional extra credit questions on the exam.
- You can use a calculator on the exam; there will be some questions involving adding, subtracting, multiplying and dividing.
- We will give you a formula sheet with the equations you can use on the exam.

**Course Material**

With each topic, be familiar with hypothesis testing.

1. Correlation

- a. Understand how to read a correlation matrix and identify: your correlation coefficient, significance level, and sample size.
- b. Be able to interpret your correlation coefficient (strength & direction).

2. OLS Regression

- a. Know the difference between a bivariate and multivariate OLS Regression.
- b. Know the conditions in which you would use an OLS regression.
- c. Be able to read and interpret output (r-square value, f-test model significance, constant, b-coefficients, significance levels).
- d. Be familiar with the regression equation and how to make predictions.

3. OLS Regression with Log DV

- a. Know the conditions in which you would use a log DV for an OLS

regression.

b. Be able to read and interpret output (r-square value, f-test model significance, constant, b-coefficients, significance levels).

#### 4. Logistic Regression

a. Know the conditions in which you would use a Logistic Regression.

b. Be able to read and interpret output (Omnibus Test of Model Coefficient, r-square values, OR/Exp(B), and significance levels).

c. Be familiar with how to make predictions.