Maggie Fay
April 2017

Quantitative Methods – Reading List
Oral Committee Member: Jeremy R. Porter
Total number of readings: 34

Logic of Inquiry

1. Healy, Joseph F. (2015). *Statistics: A Tool for Social Research* (10th ed.). Belmont, CA: Wadsworth.

Ordinary Least Squares Regression

2. Allison, Paul. (1999). *Multiple Regression: A Primer.* Thousand Oaks, CA: Sage Publication.

3. Berry, William D. (1993). *Understanding Regression Assumptions*. Thousand Oaks, CA: Sage Publication.

4. Berry, William D. and Stanley Feldman. (1985). *Multiple Regression in Practice.* Thousand Oaks, CA: Sage Publication.

5. Jaccard, James and Robert Turrisi. (2003). *Interaction Effects in Multiple Regression.* (2nd ed.). Thousand Oaks, CA: Sage Publications.

6. Schroeder, Larry, David Sjoquist and Paula Stephan. (1986). *Understanding Regression Analysis.* Thousand Oaks, CA: Sage Publication.

Application: OLS

7. Owens, J. (2016). Early childhood behavior problems and the gender gap in educational attainment in the United States. Sociology of education, 89(3), 236-258.

8. Goldin, C., Katz, L. F., & Kuziemko, I. (2006). The homecoming of American college women: The reversal of the college gender gap. The Journal of Economic Perspectives, 20(4), 133-133.

Logistic Regression

9. Agresti, Alan. (2014). *Categorical Data Analysis* (3rd ed.). Hoboken, NJ: John Wiley & Sons Inc.

10. DeMaris, Alfred. (1995). "A Tutorial in Logistic Regression." *Journal of Marriage and Family* 57(4): 956-968.

11. Long, J. Scott and Jeremy Freese. (2014). *Regression Models for Categorical Dependent Variables Using Stata* (3rd ed.). College Station, TX: Stata Press.

12. Menard, Scott. (2002). *Applied Logistic Regression Analysis*. Thousand Oaks, CA: Sage Publications.

13. Pampel, Fred C. (2000). *Logistic Regression: A Primer.* Thousand Oaks, CA: Sage Publications.

14. Williams, Richard. (2012). "Using the margins command to estimate and interpret adjusted predictions and marginal effects." *The Stata Journal* 12(2): 308-331.

Application: Logistic Regression

15. Davidson, J. C., & Petrosko, J. M. (2015). Predictors of persistence for developmental math students in a community and technical college system. *Community College Journal of Research and Practice*, *39*(2), 163-178.

16. Wolfle, J. D., & Williams, M. R. (2014). The impact of developmental mathematics courses and age, gender, and race and ethnicity on persistence and academic performance in Virginia community colleges. *Community College Journal of Research and Practice*, *38*(2-3), 144-153.

Ordered Logit Regression

17. Bailey, T., Jeong, D. W., & Cho, S. W. (2010). Referral, enrollment, and completion in developmental education sequences in community colleges. *Economics of Education Review*, *29*(2), 255-270.

Hierarchical Linear Modeling

18. Kreft, Ita and Jan de Leeuw. (2002). *Introducing Multilevel Modeling.* Thousand Oaks, CA: Sage Publications.

19. Luke, Douglas. (2004). *Multilevel Modeling*. Thousand Oaks, CA: Sage Publications.

20. Raudenbusch, Stephen W. and Anthony S. Bryck. (2002). *Hierarchical Linear Models: Applications and data analysis methods* (2nd ed.). Thousand Oaks, CA: Sage Publications.

Application: HLM

21. Thomas, S. L., & Heck, R. H. (2001). Analysis of large-scale secondary data in higher education research: Potential perils associated with complex sampling designs. *Research in higher education*, *42*(5), 517-540.

22. Gender differences in mathematics performance: A meta-analysis. Hyde, Janet S.; Fennema, Elizabeth; Lamon, Susan J. Psychological Bulletin, Vol 107(2), Mar 1990, 139-155.

23. Else-Quest, N. M., Hyde, J. S., & Linn, M. C. (2010). Cross-national patterns of gender differences in mathematics: a meta-analysis. Psychological Bulletin, Vol 136(1), Jan 2010, 103-127.

Missing Data

24. Allison, Paul D. (2002). *Missing Data*. Thousand Oaks, CA: Sage Publications.

25. Rubin, Daniel B. (1996). "Multiple Imputation After 18+ Years." *Journal of the American Statistical Association,* 91(434): 473-89.

26. Porter, Jeremy R. and Elaine Howard Ecklund. (2012). "Missing Data in Sociological Research: An overview of recent trends and an illustration for controversial questions, active nonrespondents and targeted samples," *American Sociologist*, 43(4): 448-468.

Application: Missing Data

27. Poston, Dudley L. Dr. and Conde, Eugenia Dr. (2014) "Missing Data and the Statistical Modeling of Adolescent Pregnancy," *Journal of Modern Applied Statistical Methods*: Vol. 13: Iss. 2, Article 27.

Causal Inference

28. Guo, Shenyang and Mark W. Fraser. 2014. *Propensity Score Analysis: Statistical Methods and Applications.* New York: Sage.

29. Heckman, James. 2005. The Scientific Model of Causality, Sociological Methodology, 35, pp. 1-97.

30. Hedstrom, Peter and Ylikoski, Petri. (2010). "Causal Mechanisms in the Social Sciences." Annual Review of Sociology, vol. 36, pp. 49-67.

31. Morgan, Stephen L. and Christopher Winship. (2015). *Counterfactual and Causal Inference: Methods and Principles for Social Research, 2nd Edition.* New York: Cambridge University Press.

32. Rubin, Donald (2005). "Causal Inference Using Potential Outcomes". J. Amer. Statist. Assoc. 100 (469): 322–331.

Application: Causal Analysis

33. Monaghan, David and Paul Attewell. (2014). "The Community College Route to the Bachelor's Degree." *Educational Evaluation and Policy Analysis* 20(10): 1-22.

34. Attewell, P., Lavin, D., Domina, T., & Levey, T. (2006). New evidence on college remediation. *The Journal of Higher Education*, *77*(5), 886-924.