

READING LIST FOR CANDIDATES ON THE COMPREHENSIVE EXAM
STATISTICS MAJOR

Required questions will be taken from required readings, which are indicated below by (R). Optional questions may come from either the required or the suggested (S) readings.

Statistics and Probability Theory

Candidates are responsible for material covered in the STT 441, 442 or STT 861, 862 sequence. Among the texts that have been used recently in these classes:

Casella & Berger (2001) (R)
DeGroot & Schervish (2001) (S)
Grinstead & Snell (1997) (R)
Hogg & Craig (1995) (R)
Hogg & Tanis (2000) (S)
Wackerly, Mendenhall, & Scheaffer (2001) (R)

Experimental and Quasi-experimental Design & Analysis

Box, Hunter, & Hunter (1978) (S)
Campbell & Stanley (1963) (R)
Cox & Reid (2000) (R)
Kirk (1995) (R)
Shadish, Cook, & Campbell, (2002) (R)

Linear Regression Models

Cohen, Cohen, Aiken, & West ((2002) (R)
Draper & Smith (1998) (S)
Stapleton (1995)
Weisburg (1990) (S)

Multivariate Analysis

Bock (1975) (S)
Hadi (1996)
Lattin, Carroll, & Green (2003) (R)
Morrison (1990) (R)
Namboodiri (1984) (S)
Tabachnick & Fidell (2000) (S)

Survey Sampling Techniques

Cochran (1977) (R)
Kish (1965) (S)
Sheaffer, Medenhall, & Ott (1996) (R)
Williams (1978) (S)

Others

Cooper & Hedges (1994) (S)
Hedges & Olkin (1985) (S)
Kerlinger (1986) (R)
Raudenbush & Bryk (2002) (R)
Manski (1995) (S)

References

- Bock, R. D. (1975). *Multivariate statistical methods in behavioral research*. New York: McGraw-Hill.
- Box, G. E. P., Hunter, W. G., & Hunter, J. S. (1978). *Statistics for experimenters: An introduction to design, data analysis, and model building*. New York: John Wiley and Sons.
- Campbell, D. T., & Stanley, J. C. (1963). *Experimental and quasi-experimental designs for research*. Chicago: Rand McNally.
- Casella, G., & Berger, R. L. (2001). *Statistical inference*: Brooks/Cole.
- Cochran, W. G. (1977). *Sampling techniques*. New York: Wiley.
- Cohen, J., Cohen, P., Aiken, L. S., & West, S. G. (2002). *Applied multiple regression - correlation analysis for the behavioral sciences* (3rd ed.). Mahwah, NJ: Lawrence Erlbaum.
- Cooper, H., & Hedges, L. V. (Eds.). (1994). *The handbook of research synthesis*. New York: Russell Sage Foundation.
- Cox, D. R., & Reid, N. (2000). *The theory of the design of experiments*. Boca Raton, FL: Chapman & Hall/CRC.
- DeGroot, M. H., & Schervish, M. J. (2001). *Probability and statistics* (3rd ed.): Pearson Education.
- Draper, N. R., & Smith, H. (1998). *Applied regression analysis* (3rd ed.). New York: Wiley.
- Grinstead, C. M., & Snell, J. L. (1997). *Introduction to probability*. Providence, RI: American Mathematical Society.
- Hadi, A. S. (1996). *Matrix algebra as a tool*. Belmont, CA: Wadsworth Publishing Company.
- Hedges, L. V., & Olkin, I. (1985). *Statistical methods for meta-analysis*. Orlando: Academic Press.
- Hogg, R. V., & Craig, A. T. (1995). *Introduction to mathematical statistics* (5th ed.). Englewood Cliffs, NJ: Prentice Hall.
- Hogg, R. V., & Tanis, E. A. (2000). *Probability and statistical inference* (6th ed.). Upper Saddle River, NJ: Prentice Hall.
- Kerlinger, F. N. (1986). *Foundations of behavioral research* (3rd ed.). New York: Holt, Rinehart and Winston.
- Kirk, R. E. (1995). *Experimental design: Procedures for the behavioral sciences*. Pacific Grove, CA: Brooks/Cole.
- Kish, L. (1965). *Survey sampling*. New York: Wiley.
- Lattin, J., Carroll, J. D., & Green, P. E. (2003). *Analyzing multivariate data*. Pacific Grove, CA: Brooks/Cole-Thomson Learning.
- Manski, C. (1995). *Identification problems in the social sciences*. Cambridge, MA: Harvard University Press.
- Morrison, D. F. (1990). *Multivariate statistical methods* (3rd ed.). New York: McGraw-Hill.
- Namboodiri, N. K. (1984). *Matrix algebra: An introduction*. Beverly Hills, CA: Sage.
- Raudenbush, S. W., & Bryk, A. S. (2002). *Hierarchical linear models: Applications and data analysis methods* (2nd ed.). Thousand Oaks, CA: Sage.
- Shadish, W., Cook, T., & Campbell, D. T. (2002). *Experimental and quasi-experimental designs for generalized causal inference*. Boston: Houghton Mifflin.
- Sheaffer, R. L., Medenhall, W., & Ott, L. (1996). *Elementary survey sampling* (5th ed.): Brooks/Cole.
- Stapleton, J. H. (1995). *Linear statistical models*. New York: John Wiley & Sons.
- Tabachnick, B. G., & Fidell, L. S. (2000). *Using multivariate statistics* (4th ed.): Pearson Allyn & Bacon.
- Wackerly, D., Mendenhall, W., & Scheaffer, R. L. (2001). *Mathematical statistics with applications* (6th ed.). Belmont, CA: Duxbury Press.
- Weisberg, S. (1990). *Applied linear regression* (2nd ed.). New York: Wiley.
- Williams, B. (1978). *A sampler on sampling*. New York: John Wiley & Sons.

READING LIST FOR CANDIATES ON THE COMPREHENSIVE EXAM STATISTICS MINOR

Required questions will be taken from required readings, which are indicated below by (R). Optional questions may come from either the required or the suggested (S) readings.

Basic Statistics

A book that has been used as a required text in CEP 932-933 in the past five years may be substituted as the required reading.

Hays (1994) (S)

Howell (2002) (R)

Regression Analysis

Cohen, Cohen, Aiken, & West (2002) (S)

Draper & Smith (1998) (R)

Experimental and Quasi-experimental Design & Analysis

Campbell & Stanley (1963) (R)

Kirk (1995) (S)

Shadish, Cook, & Campbell, (2002) (R)

Sampling and Survey Methods

Kish (1965) (S)

Sheaffer, Medenhall, & Ott (1996) (S)

Williams (1978) (S)

Others

Kerlinger (1986) (R)

References

Campbell, D. T., & Stanley, J. C. (1963). *Experimental and quasi-experimental designs for research*. Chicago: Rand McNally.

Cohen, J., Cohen, P., Aiken, L. S., & West, S. G. (2002). *Applied multiple regression - correlation analysis for the behavioral sciences* (3rd ed.). Mahwah, NJ: Lawrence Erlbaum.

Draper, N. R., & Smith, H. (1998). *Applied regression analysis* (3rd ed.). New York: Wiley.

Hays, W. L. (1994). *Statistics* (5th ed.). Fort Worth: Harcourt Brace College Publishers.

Howell, D. C. (2002). *Statistical methods for psychology* (5th ed.). Pacific Grove, CA: Wadsworth Publishing.

Kerlinger, F. N. (1986). *Foundations of behavioral research* (3rd ed.). New York: Holt, Rinehart and Winston.

Kirk, R. E. (1995). *Experimental design: Procedures for the behavioral sciences*. Pacific Grove, CA: Brooks/Cole.

Kish, L. (1965). *Survey sampling*. New York: Wiley.

Shadish, W., Cook, T., & Campbell, D. T. (2002). *Experimental and quasi-experimental designs for generalized causal inference*. Boston: Houghton Mifflin.

Sheaffer, R. L., Medenhall, W., & Ott, L. (1996). *Elementary survey sampling* (5th ed.): Brooks/Cole.

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