Review Topics for Incoming Graduate Students

Microeconomics
1. Mathematics for Microeconomics - N&S Chapter 2
2. Preference and utility - N&S Chapter 3
3. Utility maximization and choice - N&S Chapter 4
4. Income and substitution effects - N&S Chapter 5
5. Uncertainty and Information - N&S Chapter 7

Macroeconomics
1. Constrained optimization I: First order conditions - S&B Chapter 18, and C&W Chapters 11-12.
2. Constrained optimization II - S&B Chapter 19

Mathematics
1. One-variable calculus - S&B Chapters 2-4, and C&W Chapter 6
2. Exponents and logarithms - S&B Chapter 5, and C&W Chapter 9
3. Introduction to linear algebra and matrix algebra - S&B Chapters 6-9, and C&W Chapters 4-5.

Statistics
3. Introduction to Probability - S&B Appendix A5.

Suggested additional readings
A more recent alternative to Gibbons’ textbook is Game Theory: An Introduction, by Steven Tadelis,

Legend:
N&S = Nicholson, Walter and Christopher Snyder. Microeconomic Theory: Basic Principles and