Preparation:
You need a solid grounding in Intermediate Microeconomic and Macroeconomic Theory. Like most Ph.D. programs in economics, our courses are mathematically intensive. It is essential to be prepared for the theoretical rigor when you step in the door. The following courses and review materials are recommended as preparation for the program. Please be sure to brush up on areas that you are lacking.

Essential courses: (Check OU’s course catalogue course descriptions.)
Intermediate microeconomic (ECON 3113)
Macroeconomic theory (ECON 3133)
Elements of Statistics (ECON 2843)
Mathematical (theoretical) calculus – CALC I (Math 1823) and CALC II (MATH 2423).
   It is best to take calculus from a Math department rather than business calculus which tends to be more applied and less theoretical.
Linear Algebra (MATH 3333)
Multivariate calculus- CALC IV (MATH 2443)
Discrete mathematical structures (MATH 2513) for set and function notation and understanding of how to write and understand mathematical proofs.

Other useful courses:
Differential equations (MATH 3113)
Math analysis (MATH 3513)
Mathematical statistics (MATH 4753)
Econometric Analysis (ECON 4223 and ECON 4233)

Review materials:

Introduction Econometrics: A Modern Approach by Jeffrey Wooldridge
Publisher: South-Western College Pub; 3 edition (July 13, 2005)
* Review ALL of the Appendices.

Mathematics for Economics by Michael Hoy, John Livernois, Chris McKenna, Ray Rees, Anthanassios Stengos
Publisher: The MIT Press; 2 edition (June 11, 2001)
TEXTBOOKS TYPICALLY USED IN FIRST YEAR
(Please verify texts with course instructors upon enrollment.)

Price and Welfare Theory (Fall: ECON 5123, Spring: ECON 6213)

Microeconomic Analysis by Hal R. Varian
Publisher: W.W. Norton & Co.; 3rd edition (March 17, 1992)

Microeconomic Theory by Andreu Mas-Colell, Michael D. Whinston, Jerry R. Green
Publisher: Oxford University Press, USA (June 15, 1995)

Advanced Microeconomic Theory by Geoffrey A. Jehle, Philip J. Reny
Publisher: Addison Wesley; 2nd edition (July 29, 2000)

Game Theory for Applied Economists by Robert Gibbons
Publisher: Princeton University Press (July 13, 1992)

Macroeconomics and Growth Theory (Fall: ECON 5163, Spring: ECON 6313):

Advanced Macroeconomics by David Romer

The Elusive Quest for Growth: Economists' Adventures and Misadventures in the Tropics by William R. Easterly
Publisher: The MIT Press (July 1, 2001)

Mathematical Economics (Fall: ECON 5153)

Mathematics for Economists by Carl P. Simon, Lawrence E. Blume
Publisher: W.W. Norton & Co.; 1 edition (April 17, 1994)

Advanced Econometrics (Spring: ECON 5213)

Econometric Analysis by William H. Greene
Publisher: Prentice Hall; 6th edition (August 17, 2007)

A Guide to Econometrics by Peter Kennedy
Publisher: Wiley-Blackwell; 6 edition (February 25, 2008)