IMPORTANT NOTE:
The major in economics-operations research is CLOSED to new students beginning in the FALL of 2010. Students interested in this major should consider one of the two other quantitative interdepartmental majors (econ-statistics and econ-mathematics) or the new major in financial economics. Students who declared the economics-OR major prior to the fall of 2010 will be allowed to complete the major.

General Notes

1) This is a check list for your convenience only. It does not replace the bulletin. For details regarding the requirements below you must consult the bulletin.
2) You must receive a grade of C- or higher in any class taken for major credit. The ONLY exception is principles of economics which you may take pass/fail.
3) You must have all transfer credits for economics classes approved by the economics department. You must have all transfer credits for math and statistics classes approved by those departments. You should ask those departments to notify the economics department regarding your accepted transfer credit.
4) You will not receive major credit for a course taken before the completion of its pre-requisites.

A. ECONOMICS Requirements

I. Core Courses

_______ W1105 Principles of Economics or AP credits (you must have a grade of 9 or 10 on the AP exam) or IB credits (6 or 7 on the higher level exam)
_______ W3211 Intermediate Microeconomics (Pre-reqs ECON W1105 and MATH V1201)
_______ W3213 Intermediate Macroeconomics (Pre-reqs ECON W1105 and MATH V1101)
_______ W3412 Introduction to Econometrics (Pre-reqs ECON W3211 or W3213, MATHV1201 and STAT W1211). *W3412 must be completed by the spring semester of your junior year.

List any departmental approved substitution(s), including transfer credits, for above requirements.

II. Electives

You must take 2 electives in economics (a maximum of 1 may be taken at Barnard). All electives must be at the 3000 level or higher. All electives in the department at the 3000 or 4000 level require BOTH W3211 and W3213 as pre-requisites (and some have additional pre-requisites). Please consult the bulletin for pre-requisites for Barnard elective courses.

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III. Seminar
You must take W4918 Seminar in Econometrics

List any approved substitution(s), including transfer credits, for the above requirements.

____________________________________

B. IEOR Requirements (Consult with your O.R. adviser)
I. Required Courses

- E3600 Intro to probability and statistics
- E3608 Intro to mathematical programming
- E3106 or E4106 Intro to operations research

II. Elective Courses
One Elective in Operations Research or Statistics:

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C. OTHER Requirements
I. Required Courses
- You must take one of the following sequences:
  - MATH V1101 Calculus I (or AP credits), MATH V1102 Calculus II (or AP credits), MATH V1201 Calculus III, and MATH V2010 Linear Algebra
  - or
  - MATH V1207 and V1208, Honors Math

II. Computer Science Requirement
One of the following:

- W1003 Intro to computer science & programming in C
- W1004 (preferred) Intro to computer science and programming in Java
- W1005 Intro to computer science and programming in MATLAB
- W1007 Object-oriented programming and design in JAVA

Students who have questions about any of the above requirements should first consult the bulletin or the online FAQ page at: [http://www.columbia.edu/cu/economics/undergraduate/s5_4_3.html](http://www.columbia.edu/cu/economics/undergraduate/s5_4_3.html)
If after consulting the bulletin and the FAQ page you still have questions then contact your advisor in the department of economics.