UNIVERSITY OF PITTSBURGH
School of Arts & Sciences
Undergraduate Degree Requirements

Economics – Statistics Joint Major

www.econ.pitt.edu and www.stat.pitt.edu
Revised: 01/2006

The Economics-Statistics joint major is intended for students who are interested in economics and enjoy modeling and analyzing data. Although the number of such students is not large, there are a few each year who express an interest in pursuing both economics and statistics in a depth suitable for a major. These students are prime candidates for graduate school and want to keep their options open as to which field to enter later. Short of completing two bachelor's degrees, their only option now is to major in one subject and minor in the other. If they later decide to attend graduate school in their minor subject, they are likely to be less competitive for admission to the best departments than if they had majored in that subject. A joint major provides a useful compromise to keep their options open. A joint major in economics and statistics can be excellent training for the more quantitative areas of business, such as forecasting, investment management, actuarial planning, and accounting, health management, and public health, without losing the breadth provided by a liberal arts program. Graduates of the joint major who are interested in these areas will have the requisite skills for further training or for immediate entrance into the job market.

Required courses for the Economics – Statistics joint major

The Economics – Statistics joint major requires the completion of 62 credits distributed as follows.

Economics courses

ECON 0100 Introduction to Microeconomic Theory
ECON 0110 Introduction to Macroeconomic Theory
ECON 1100 Intermediate Microeconomics
ECON 1110 Intermediate Macroeconomics
ECON 1150 Applied Econometrics 1
ECON 1200 Game Theory
One ECON non 0800-series elective
One ECON 1000-level elective

Note: The 1000-level elective course requires either ECON 1100 or ECON 1110 as a prerequisite and must come from the approved list on the back of this sheet.

Statistics courses

STAT 1000 Applied Statistical Methods
STAT 1151 Introduction to Probability
STAT 1152 Introduction to Mathematical Statistics
STAT 1221 Applied Regression
STAT 1223 Applied Regression Written Component
Four elective STAT courses chosen from the 1200 level or above; one of these electives must be from the 1600 level or above, excluding internship and directed study courses.

Note: Students who plan to study statistics at the graduate level are encouraged to take STAT 1631 and STAT 1632.

Mathematics courses

MATH 0220 Analytic Geometry and Calculus 1
MATH 0240 Analytic Geometry and Calculus 3

One of the following courses
MATH 0230 Analytic Geometry and Calculus 2
MATH 0235 UHC Honors Calculus

Note: Students are encouraged to take a course in linear algebra such as MATH 0280, MATH 1180, or MATH 1185.

Grade requirements: A grade of C or better is required in each course that counts toward the major.

Satisfactory/No Credit option: No course required for the major may be taken on an S/NC basis.

Writing (W) requirement: Students must complete at least one W-course in the major.

Related area: A related area is not required due to the interdisciplinary nature of the major.

Honors major requirements: Honors in the Economics – Statistics joint major is granted if the student:
1. maintained a GPA of 3.5 or above in all required courses; and
2. completed STAT 1631 and STAT 1632.

Advising:

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Checklist for the Economics – Statistics joint major

Economics courses

_____ ECON 0100 [1]
_____ ECON 0110 [1]
_____ ECON 1100
_____ ECON 1110
_____ ECON 1150
_____ ECON 1200
_____ ECON _____ (non 0800-series elective)
_____ ECON 1_____ (1000-level from the approved list) [2]

(1) Students who take ECON 0120 in lieu of ECON 0100 **and** ECON 0110 must take an additional economics elective to fulfill the requirements for the major.
(2) Courses on the approved list require either ECON 1100 **or** ECON 1110 as a prerequisite.

Approved list of 1000-level ECON courses

ECON 1130 Operations Research Analysis
ECON 1140 Economic Modeling and Forecasting
ECON 1150 Applied Econometrics1
ECON 1160 Applied Econometrics 2
ECON 1230 Intermediate Public Finance
ECON 1280 Monetary Theory and Policy
ECON 1300 Introduction to Regional Economics
ECON 1310 Methods of Regional Analysis
ECON 1320 Urban Economics
ECON 1360 Intermediate Resource and Environmental Economics
ECON 1420 Labor Economics
ECON 1440 Economics of Corporation Finance
ECON 1450 Law and Economics
ECON 1470 Industrial Organization 2
ECON 1500 Intermediate International Trade
ECON 1510 Intermediate International Finance
ECON 1520 Analysis of Economic Systems
ECON 1530 Intermediate Development Economics
ECON 1540 Theory of Economic Growth
ECON 1560 World Food Economy
ECON 1670 Former Socialist Economics and Transition
ECON 1700 Proseminar in Methodology of Economics
ECON 1710 Proseminar in International Economics
ECON 1720 Proseminar in Monetary Policy and Macroeconomics
ECON 1730 Seminar in Experimental Economics

Statistics courses

_____ STAT 1000
_____ STAT 1221
_____ STAT 1223
_____ STAT 1151
_____ STAT 1152
_____ STAT 1_____ (1200 level or above)
_____ STAT 1_____ (1200 level or above)
_____ STAT 1_____ (1200 level or above)
_____ STAT 1_____ (1600 level or above)

Mathematics courses

_____ MATH 0220
_____ MATH 0240

One of the following

_____ MATH 0230
_____ MATH 0235