UNIVERSITY OF PITTSBURGH

DEPARTMENT OF ECONOMICS

HANDBOOK
FOR
UNDERGRADUATE STUDENTS

September 2013
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DEPARTMENT OF ECONOMICS

The Undergraduate Advising Center
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Email: econadv@pitt.edu
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Katherine Wiley Wolfe

Associate Chair for Undergraduate Studies: Shirley Cassing

Administrative Secretary: Nettie Didiano
didiano@pitt.edu
412-648-1730

When should you visit the advising center?
- To monitor your academic progress. Meet with an advisor to discuss requirements, QPA, etc.
- Prior to registration, to plan class choices for the upcoming semester
- To learn about careers, and graduate school and how to plan for these opportunities
- To learn about internships opportunities, speakers visiting campus, and other special opportunities
- To find help if you are struggling academically
- To register for courses (please see further information on registration)

Registration for Economics Majors:
You must sign up for a registration appointment. Please contact the advising center for more details. You must come to your appointment on time and prepared. Appointments are only 15 minutes long. You should meet with an advisor prior to registration to discuss requirements and class choices. You should choose all classes and alternates using the course schedule and course description publications, and check availability of courses on my.pitt.edu prior to your appointment. If you are late or not prepared, you will have to reschedule your appointment for a later date.
Why Major in Economics?

A major in economics supports the liberal arts tradition of promoting students’ growth in critical thinking and developing an understanding of the world around them. Economics is a particularly useful major in today’s ever changing job market. Individuals are now required to compete in the world market, and a degree in economics provides problem solving skills and which will be flexible tools applicable in many professions and careers. Students majoring in economics learn analytical skills and methods of the field, including deductive reasoning, decision-making techniques, quantitative analysis, and modeling principles, and apply these skills in analysis of the ways in which economic forces affect national and international policies and issues.

An undergraduate major in economics serves a variety of purposes in the general liberal arts or pre-professional curriculum. It leads to a great diversity of career opportunities. A major in economics provides a good foundation for careers in business or government service at all levels, as well as an ideal preparation for graduate studies in a number of professional schools and disciplines. Economics majors are well-positioned to pursue further study in a variety of graduate level fields. These included law, public policy, business administration, health management, hospital administration, urban affairs, economics and political science. Because the range of interests among economists is broad, the economics program includes a broad range of course offerings. In a world of changing interests and job requirements there is a strong logic in building a general and flexible set of abilities.

A student who is too narrowly trained may find it difficult to keep pace in the changing job market. An economics major can design a curriculum that maintains a good balance between generalized knowledge and serviceable skills. One enduring strength of economics is its logical ordered way of looking at a variety of problems and issues. It draws on history, philosophy and mathematics to confront topics ranging from how households or businesses make decisions to societal issues such as unemployment, inflation, crime and environmental decay.

A major in economics can be designed to serve a variety of purposes in the general liberal arts and to provide a background for postgraduate study in a number of professional schools. In addition, economics is frequently taken as a dual major with business at the undergraduate level. Among the graduate-level options which can be pursued by economic majors are law, business, professional-level training in economics, public administration, professional health management, hospital administration, urban affairs, and transportation studies. Because the range of interests among economics majors is quite broad, students are encouraged to work out a plan of studies fitting their individual needs with a departmental advisor.
The Field as a Whole

Economics is the study of how society organizes production and distributes what is produced to its members. The Oxford English Dictionary defines political economy as a “science dealing with the laws that regulate the production and distribution of wealth.” The goal of the economics major is to equip our students with the tools of this science and the approach known as the “economic way of thinking.”

Modern economics is divided into two separate branches of microeconomics and macroeconomics. Microeconomics is the study of how individual production and consumption decisions are made and how they are coordinated by markets. Macroeconomics is the study of how overall input and output, employment, and price level are determined. Both of these branches of economics aim not only to study the economy, but to prescribe policies to improve its performance. That is our challenge.

Requirements for a Degree
If you declared before term 06-1 (September 2005), please see an advisor for clarification.

Cautionary note: The information contained in the handbook should be confirmed by reference to the latest edition of the University Bulletin and the department webpage, which can be accessed at www.econ.pitt.edu. Since requirements may change, this information may become dated. Secondly this handbook is not intended to replace consultation with the major advisor, since individual circumstances will vary.

The Organization of the Major: The major consists of 4 core theory classes in micro and macro economic theory and 5 elective classes which allow you to tailor your major to your particular interest. Of the five elective classes two are required to use the intermediate theory classes as a prerequisite. This enables you to apply the theory in a field of your interest. Each degree has specific requirements within this framework.
Required courses for the B.A. in Economics

Minimum of 27 credits in Economics as follows:

- ECON 0100 and 0110 (6 cr)
- ECON 1100 and 1110 (6 cr)
- Two elective ECON courses (6 cr)
- Three additional 1000-level ECON courses (9 cr)

**Note:** Two of these courses must use either ECON 1100 or ECON 1110 as a prerequisite.

Econ 0900 (1cr)

**Co-requisites:**

- MATH 0120 or 0220 or (0125 and 0126)
- STAT 0200 or 1000 or 1100 (*)

(*) STAT 1100 is required for those students pursuing the Economics/Business Dual Major. Students pursuing the Economics/Business Dual Major are exempted from taking BUSECN 1010 since it is roughly equivalent to ECON 1100.

**Restrictions:**

- ECON 0800 is designed for non-majors and therefore does not count toward the major or minor.
- No CAS credit will be given for ECON 0800 if it is taken after ECON 0100 or ECON 0110.
- Internship credits do not count toward the major, but students are encouraged to do internships.
- Only three (3) credits of ECON 1900 through 1903 may be applied toward the credits required for the major. The faculty sponsor and the advisor will determine which elective requirement the independent study fulfills.

**Grade Requirements:** A minimum grade of C is required in ECON 0100, 0110, 1100 and 1110 and Math 0125, 0126, 0120, and 0220. A minimum QPA of 2.0 in departmental courses is required for graduation.

**Satisfactory/Audit Option:** Majors may not elect the S/N option for any courses that will count towards their major except Econ 0900.

**Related Area:** A minimum of 12 credits in a related field of study as approved by the economics advisor. The Arts and Sciences minor or certificate will count as a related area.

**Program (W) Requirement:** Students must complete at least one W (writing intensive) course in the major.

**Honors Major Requirements:** Honors in Economics are granted if, in addition to fulfilling all requirements for the Economics major, the student:

- Maintains a QPA of 3.5 or above in ECON courses.
- Maintains an overall QPA of 3.5 or above.
- Completes a Pro-seminar (ECON 1700 – 1730) as one of the 1000-level elective courses.
Required courses for the B.S. in Economics

Minimum of 27 credits in Economics as follows:

- ECON 0100 and 0110 (6 cr)
- ECON 1100 and 1110 (6 cr)
- Two elective ECON courses (6 cr)
- Two additional 1000-level ECON courses (6 cr)

Note: Both of these courses must use either ECON 1100 or ECON 1110 as a prerequisite.

- ECON 1150 or 1180 (3cr)
- Econ 0900 (1 cr)

Co-requisites:
- MATH 0220
- MATH 0230
- STAT 1000 or 1100 (*)

(*) STAT 1100 is required for those students pursuing the Economics/Business Dual Major. And students pursuing the Economics/Business Dual Major are exempted from taking BUSECN 1010 since it is roughly equivalent to ECON 1100.

Restrictions:
- ECON 0800 is designed for non-majors and therefore does not count toward the major or minor.
- No CAS credit will be given for ECON 0800 if it is taken after ECON 0100 or ECON 0110.
- Internship credits do not count toward the major, but students are encouraged to do internships.
- Only three (3) credits of ECON 1900 through 1903 may be applied toward the credits required for the major. The faculty sponsor and the advisor will determine which elective requirement the independent study fulfills.

Grade Requirements: A minimum grade of C is required in ECON 0100, 0110, 1100 and 1110 and Math 0220. A minimum QPA of 2.0 in departmental courses is required for graduation.

Satisfactory/Audit Option: Majors may not elect the S/N option for any courses that will count towards the major except Econ 0900.

Related Area: A minimum of 12 credits in a related field of study as approved by the economics advisor. The Arts and Sciences minor or certificate will count as a related area.

Program (W) Requirement: Students must complete at least one W (writing intensive) course in the major.

Honors Major Requirements: Honors in Economics are granted if, in addition to fulfilling all requirements for the Economics major, the student:
- Maintains a QPA of 3.5 or above in ECON courses.
- Maintains an overall QPA of 3.5 or above.
- Completes a Pro-seminar (ECON 1700 – 1730) as one of the 1000-level elective courses.
Minor in Economics

15 credit minimum:

ECON 0100
ECON 0110
ECON 1100 or 1110 or BUSECN 1010(*)
ECON ______(elective: no 0800-series course)
ECON ______(elective: no 0800-series course)

(*) Only CBA students or Arts and Sciences dual business majors may use Busecon 1010 for the minor.

Grade Requirements: A minimum QPA of 2.0 in departmental courses is required for graduation.
The Economics-Statistics joint major

**Required Economics courses for the Joint Major**  
Minimum of 24 credits in Economics as follows:  
ECON 0100 and 0110 (6 cr)  
ECON 1100 and 1110 (6 cr)  
ECON 1150 (3 cr)  
ECON 1200 (3 cr)  
One elective ECON course (3 cr) (*)  
One elective 1000-level ECON course (3 cr)  
Note: The 1000-level elective must use either ECON 1100 or ECON 1110 as a prerequisite.

(*) ECON 0800 is designed for non-majors and therefore does not count toward the joint major.

**Required Statistics courses for the Joint Major**  
Minimum of 26 credits in Statistics as follows:  
STAT 1000 (4 cr)  
STAT 1221 and 1223 W-practicum (4 cr)  
STAT 1151 and 1152 (6 cr)  
Four (4) elective STAT courses (12 cr), chosen from the 1200-level or above, one of which must be from the 1600-level or above, excluding Internships and Directed Studies.

Note: Students who plan to study Statistics at the graduate level are strongly encouraged to take STAT 1632.

**Required Mathematics courses for the Joint Major**  
Minimum of 12 credits in Mathematics as follows:  
MATH 0220  
MATH 0230 or 0235  
MATH 0240

Note: Students are strongly encouraged to take a course in Linear Algebra such as MATH 0280 or 1180 or 1185.

**Grade Requirements:** Students must earn at least a C in each course required for the joint major. A minimum QPA of 2.0 in departmental courses is required for graduation.

**Satisfactory/Audit Option:** No course required for the joint major may be taken using the S/N option.

**Program (W) Requirement:** STAT 1223 satisfies the W requirement for the joint major.
**Honors Major Requirements:** Honors in the Economics-Statistics joint major is granted if the student has maintained a minimum QPA of 3.5 in all required courses, and has completed STAT 1631 and 1632.

Statistics Department Contact: Dr. Carl Bodenschatz
CL 2714
(412) 624-9085
mailto:cboden@pitt.edu
Mathematics – Economics Joint Major

Required courses for the Mathematics-Economics Joint Major:
The Mathematics-Economics joint major requires the completion of a minimum of 58 credits distributed as follows:

Mathematics Courses
MATH 0220 Analytic Geometry and Calculus 1
MATH 0230 Analytic Geometry and Calculus 2
MATH 0240 Analytic Geometry and Calculus 3
MATH 0413 Introduction to Theoretical Mathematics
MATH 0420 Introduction to Theory 1-Variable Calculus
MATH 0430 Introduction to Abstract Algebraic Systems
MATH 1180 Linear Algebra 1

Statistics Courses
STAT 1151 Introduction to Probability
STAT 1152 Introduction to Mathematical Statistics

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 Introduction to Game Theory
One ECON non 0800-series elective course
Two ECON 1000-level elective courses
Note: The two ECON 1000-level electives require either ECON 1100 or ECON 1110 as a prerequisite.

Recommended Course: Students are strongly encouraged to take at least one (1) field course in mathematics (MATH 1070, 1080, 1100, 1110, 1250, 1270, 1700) or statistics (STAT 1221, 1311, 1321, 1631, 1632, 1661, 1761).

Grade Requirements: A grade of ‘C’ or better is required in each course that is to count toward the major.

Satisfactory/Audit Option: No course that counts toward the joint major can 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 Mathematics-Economics joint major is granted if the student:

- Completes the following mathematics/statistics courses in lieu of those previously specified:
  - MATH 0235 Honors 1 Variable Calculus
  - MATH 0240 Analytic Geometry and Calc 3 (UHC)
  - MATH 0450 Introduction to Analysis
  - MATH 1185 Honors Linear Algebra 1
  - MATH 1530 Advanced Calculus 1
  - STAT 1151 Introduction to Probability
  - STAT 1152 Introduction to Mathematical Statistics
  - One (1) additional 1000-level MATH course;

- Completes all required economics courses taking ECON 1180 Mathematical Economics and a pro-seminar (ECON 1700–1730) for the two ECON 1000-level elective courses; and

- Maintains a minimum QPA of 3.0 in the mathematics courses, 3.25 in the economics courses, and 3.25 overall.

**Advising:**

Dr. Frank Beatrous (Mathematics)
Director of Undergraduate Programs
(412) 624-8349
mailto:beatrous@pitt.edu
The Business Economics Dual Major

Students interested in the dual program must submit a Declaration of Major from during the first four weeks of the term before they wish to begin. In general, students will begin the program in the second term of the sophomore year (after 45 credits have been earned). The student will be notified of acceptance into the program and this acceptance is necessary before the student will be permitted to register for the business courses.

Prerequisites for Acceptance
1. Econ 0100 - Intro to Micro Theory
2. Econ 0110 - Intro to Macro Theory
3. Math 0120 - Intro to Calculus (Math 0220 may be substituted for Math 0120)
4. Psych 0010 – Intro to Psychology

Requirements in Economics
   See BA/BS requirements listed previously

Requirements for Business:
   BUSSACC 0030
   BUSACC 0040
   BUSQOM 0050
   BUSENV 0060
   BUSORG 1020
   BUSHRM 1050
   BUSMKT 1040
   BUSQOM 1070
   BUSFIN 1030
   BUSMIS 1060
   BUSSPP 1080
   STAT 1100

Note:
   CAS accepts a maximum of 18 non-A&S credits toward the degree. The dual business major uses all of the allowable non-A&S credits.
   Grade of C- or better in all Business Courses.

Advising:
Michael McDermott
Sensq 2620
mcdermott@katz.pitt.edu
412-383-7447
General Rules and Regulations

GRADING
There are two grading options: S/N and letter grade. See the University of Pittsburgh Undergraduate Bulletin for a description of these grading options.

REPEATING COURSES
Students may elect to repeat a course, subject to the following stipulations. Students should submit a course repeat form in 140 Thackeray Hall after the course has been completed the second time.

A. Sequence course
A sequence course may not be repeated for credit if the student passes a higher sequence course with a “C” or better grade.

B. Other Institutions
A student may not enroll in the same course at another institution and have that grade replace the original grade earned at the University.

C. Transcript
The original course and grade remain on the transcript; however, the grade and credits originally earned are not counted in the calculation of the QPA or GPA.

D. Grade earned by repeating courses
The grade earned by repeating a course is used instead of the grade originally earned. W, R, or N grades reported for the repeated course, however, will not be identified as a course repeat, and therefore the original grade earned will continue to be counted in the QPA. Incomplete grades (G and I) are not identified as repeated courses until the course work is completed.

E. Only repeat a course twice
Students are only permitted to repeat a course twice. Any grade earned in the repeated course will be recorded on the academic transcript, even if it is lower than the original grade. This means students may not take any course more than three times total.

Other Limitations
1. Only 3 credit for Econ 1900 through 1903 may be applied toward the credits required for the major.
2. Econ 0800, 0810 and 0820 DO NOT count toward the major.
3. No A&S credit is given for 0800 if taken after Econ 0100 or 0110.
4. Internship credits DO NOT count towards the major.
Grade Requirements:
A minimum grade of C is required in Econ 0100, 0110, 1100 and 1110 and Math 0120, 0220. An overall QPA of at least 2.0 in all economic courses is required for graduation.

S/N Option:
Majors may not elect the S/N option for any courses counting towards the major.

Related Area/Minor
Students must complete 12 credits in a related field of study approved by the economics advisor. This requirement can be fulfilled with an official minor. Please check with the minor department for specific requirements (usually 15-18 credits).

Program W
Students must enroll in one of the W-courses (writing) offered by the department.

Other Options:
1. Double Majors: Frequently chosen majors include computer science, history, philosophy, etc. Less frequently chosen are the sciences (notably biology), which could lead to graduate-level options in public health fields.

ACADEMIC HONORS

Dean’s List:
To be placed on the Dean’s List, a student must have earned at least 12 credits (not including courses taken on the Satisfactory/Audit option) with a term QPA of at least 3.50, and no grade lower than a C.

Graduation Honors
Those members of a CAS graduating class who have attained an outstanding scholastic record and have taken at least 60 letter-graded credits while a resident in CAS are graduated with honors. See Undergraduate Bulletin Graduation with Honors section for other specific requirements.

Economics Department
Honors in economics is granted if, in addition to fulfilling all requirements for the econ major, the student:
1. Maintains a QPA of 3.5 or above in Econ courses
2. Maintains an overall QPA of 3.5 or better.
3. Elects at least 3 credits in the Econ pro-seminar series (1700-1730).

Omicron Delta Epsilon (ODE) International Honor Society in Economics (see student organizations)
PROBATION AND SUSPENSION:

When the overall QPA falls below 2.00, the student is automatically on academic probation. In addition, any student who is not making satisfactory progress toward completion of the degree may be placed on probation by the Department; it will inform the student.

Students on probation who still have a cumulative QPA below 2.00 after their next term of enrollment will be subject to suspension or dismissal.

After being suspended, students are not eligible to re-enroll for one calendar year.

INTERNSHIPS

Even though internship credits do not count towards the major, students are encouraged to do internships. Go to [http://www.as.pitt.edu/undergraduate/experience/internships/index.html](http://www.as.pitt.edu/undergraduate/experience/internships/index.html) for detailed information on regulations. To earn general CAS credit for an internship, students must have a faculty sponsor and complete a learning agreement. For more information meet with the departmental advisor.

STUDY ABROAD OPTIONS:

Students are strongly encouraged to add an international dimension to their undergraduate education by studying abroad. By participating in a study abroad program, you will earn credits towards your economics degree while becoming better equipped for the global marketplace. Scholarships are available and financial aid is applicable. For more information, contact Study Abroad Office at 802 WPU 648-7413

GRADUATION

In addition to major requirements, students must fulfill A&S requirements. This can be discussed with the Economics advisor. Students must apply for graduation after they have registered for their final semester of classes.
Suggested Courses For Possible Tracks

Business Economist:
Forecasting, planning and other economic tasks for banks and financial institutions, manufacturing firms, wholesale and retail trade and multinational firms.
- Introduction to Money and Banking (0280)
- Introduction to Econometrics (0160) or Applied Econometrics (1150)
- Economics of Corporation finance (1440)
- Industrial Organization I (0470) or Industrial Organization II (1470).
- Labor and the Economy (0400)

Government Economist:
Policy analysis or statistical work for International Agencies or federal, state or local governments.
- Public Finance I (0230)
- Public Finance II (1230)
- Urban Economics (1320)
- Introduction to Econometrics (0160) or Applied Econometrics (1150).

- Introduction to International Trade (0500)
- Intermediate International Trade (1500)
- Intermediate International Finance (1510)
- Economics of Transition (1670),

- Introduction to Development Economics (0530)
- Intermediate Development Economics (1530)
- Economics Development of China (1630)

Graduate School in Economics

Most all graduate programs require a strong background in mathematics. This should include: Calculus (Math 0220, 0230, 0240)
Introduction to Matrices, and Linear Algebra (Math 0280).

Also, consider Introduction to Probability and Statistics I and II (Stat 1151 and 1152)
Applied Econometrics (Econ 1150),
Introduction to Theoretical Mathematics (Math 0410)
and upper division economics courses that require intermediate theory. A sound training in economic theory and mathematics is very important preparation for graduate study.
**What can I do with a Bachelor’s degree in Economics?**

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<thead>
<tr>
<th>Areas</th>
<th>Employers</th>
<th>Strategies</th>
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<tbody>
<tr>
<td><strong>Business</strong></td>
<td>Industry</td>
<td>Plan on graduate degree (MBA) to specialize or for promotion or advancement</td>
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<td></td>
<td>Transportation</td>
<td>Acquire statistics and computer skills</td>
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<td></td>
<td>Health</td>
<td>Develop good written and verbal communication skills</td>
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<td>Labor</td>
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<td></td>
<td>Private firms</td>
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<td><strong>Government/Public</strong></td>
<td>Mainly in departments involved in agriculture, business, finance, labor,</td>
<td>Become active in student government</td>
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<td><strong>Policy</strong></td>
<td>transportation, urban economics and international trade.</td>
<td>Find an internship in government agency</td>
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<td>Federal Reserve System</td>
<td>Plan on graduate degree for promotion or advancement</td>
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<td>Regulatory Commissions</td>
<td>Become familiar with government hiring practices</td>
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<td>Congressional committees</td>
<td>Acquire statistics and computer skills</td>
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<td><strong>Economic and Market</strong></td>
<td>Market research firms</td>
<td>Take courses in business, political science, sampling theory, survey design and computer science</td>
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<td><strong>Research</strong></td>
<td>Consumer goods manufacturing firms</td>
<td>Plan on graduate courses to specialize and for advancement</td>
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<td><strong>Research Analysis</strong></td>
<td>Business firms</td>
<td>Become a student member in American Marketing Association</td>
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<td>Consulting firms</td>
<td>Assist with canvassing/phone interviewing for charities or political campaigns</td>
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<td>Non-profit institutions</td>
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<td><strong>Banking &amp; Finance</strong></td>
<td>Commercial banks</td>
<td>Find summer internship</td>
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<td></td>
<td>Regional banks</td>
<td>Develop strong analytical skills</td>
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<td>Savings &amp; loan associations</td>
<td>Gain computer skills</td>
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<td>Other financial institutions</td>
<td>Get cashier, teller or clerical experience</td>
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<td>Trusts</td>
<td>Become financial officer/treasurer in campus organization</td>
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<td><strong>Insurance</strong></td>
<td>Insurance firms,</td>
<td>Gain computer and statistics skills</td>
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<td>local and home officers</td>
<td>Become treasurer of organization</td>
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<td>Assist with fund-raising drives</td>
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<td>Become student member in professional organizations</td>
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<td>Get experience in benefits/personnel area of corporations or insurance companies</td>
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<td>Develop strong math and business orientation for actuarial areas</td>
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<td>Get internship experience</td>
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<tr>
<td>Securities</td>
<td>National and regional brokerage firms</td>
<td>Plan on acquiring MBA</td>
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<tr>
<td>Sales</td>
<td>Discount brokerage houses</td>
<td>Get sales experience</td>
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<td>Research</td>
<td>Commercial banks</td>
<td>Participate in team competition</td>
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<td>Operations</td>
<td>Insurance companies</td>
<td>Become member of investment club</td>
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<td>Assist with telephone solicitations</td>
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<td>Get internship experience</td>
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<td>Consulting</td>
<td>Management consulting firms</td>
<td>Plan on first acquiring experience with government or business</td>
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<td></td>
<td>Independent consulting firms</td>
<td>Plan for graduate degree in area of interest</td>
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<td>Non-profit institutions</td>
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<tr>
<td>Teaching</td>
<td>Secondary public and private schools</td>
<td>Obtain certification for teaching</td>
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<td>Colleges and universities</td>
<td>Requires Ph.D. and extensive publication for tenure and professorship</td>
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<tr>
<td>Research</td>
<td>Colleges and universities</td>
<td>May require Ph.D. and extensive publication for tenure and professorship</td>
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<td>Consulting firms, think tanks</td>
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<td>International Organizations</td>
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<td>Private research and consulting firms</td>
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<tr>
<td>Law</td>
<td>Law Firms</td>
<td>Take courses in government regulation, law, and labor law</td>
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<td></td>
<td>Government Organizations</td>
<td>Plan on graduate degree</td>
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<td>International Organizations</td>
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Planning for Graduate School:

Choosing a School:
Choice of an appropriate graduate school is an important decision. There are many questions you should ask about each school you are considering, such as its admissions criteria, curriculum, tuition costs, and reputation in the job market. Faculty members in the department will usually have definite ideas about which institutions are outstanding in their own fields of interest and will be happy to discuss the pros and cons of the schools you are considering. It is also useful to visit schools, attend classes, and meet some of the faculty in the areas of your interest. You may also wish to browse through the library of graduate school catalogues and guides to graduate schools at Career Services. Career Services provides preprofessional advising. You may also find information on schools on the internet.

Preparing for Graduate School in Economics:
The department offers students interested in further study of economics outstanding opportunities to prepare themselves for challenging graduate programs. Tell your advisor that you are potentially interested in graduate study, and ask for suggestions. If you advance quickly, it is possible to take graduate courses. Top ranked graduate schools look for: good grades in economics and math courses, high scores on the quantitative section of the GRE, excellent recommendations and strong math background, preferably including calculus of several variables, linear algebra, and probability and statistics as they are used in modern economics. It is to your advantage to work on research with or under a faculty member, either through independent study, or as a volunteer or paid research assistant position. Other ways to get to know faculty are to TA in an intermediate course (for course credit in independent study or for pay), and through the Undergraduate Economics Society.

Preparing for Business School:
Students interested in pursuing a Master of Business Administration degree (MBA) should consider the dual business major. In lieu of this major, a liberal education with emphasis on the ability to express oneself and on an exposure to a wide range of disciplines is generally recommended. Courses in calculus, computer science, statistics and English (to improve writing ability) are recommended by many business schools. Significant work experience and achievement are also important considerations in evaluating an application for admission. Because the majority of the top schools prefer fulltime work experience, many students wait to apply until after they have worked for a few years. Many, though, do apply while still undergraduates and choose to defer their admission for up to two or three years, but check with specific schools as to their deferment policy and the allowed length of deferment. The Graduate Management Admission Test (GMAT) is offered four times a year and is required for admission to most graduate schools of business. You should plan to take the exam no later than the fall of the year preceding the year in which you wish to enter business school. Many students have found that they have more time to study for the GMAT in the spring or summer, and that they receive their score reports early enough to use them as a guideline when deciding where to apply. Preparation books are available in most bookstores. Application deadlines vary from school to school, with January 31 probably being the average. It is a good idea to write for applications in the early fall of the year prior to entry and plan to complete applications by January 1.

Preparing for Law School:
The Prelaw Handbook published by the Association of American Law Schools and the Law School Admission Council is an excellent reference. Catalogues, sample applications and individual advising are also available at career services and they offer a series of seminars to help students prepare. Law schools do not suggest that students major in any particular discipline, but a prelaw student might want to be familiar with a number of areas before applying, such as western culture (history, political science, sociology, philosophy), statistics, computer science, accounting and other courses that help students perfect their skills in English composition and communication. Most law schools actively discourage students from taking too many law classes as undergraduates. All accredited law schools in the United States require their applicants to submit scores from the Law School Admission Test (LSAT). Preparation books are available at most bookstores. The test is usually offered in October, December, February, April, and June
and should be taken in the spring of your junior year, or during the summer before your senior year, if you plan to enter law school immediately after graduation. It takes four weeks for the scores to be sent to the schools. The LSAT/LSDAS Registration Packet, contains all the necessary information and forms for registering for the LSAT and the Law School Data Assembly Service (LSDAS). The purpose of the LSDAS is to reduce the enormous clerical task that admissions committees face each year. Registration is required by most law schools and should be done at the same time as registration for the LSAT. In general, applications will be accepted by most law schools beginning in October. Many schools have a "rolling" admissions policy, meaning they will decide on applications in groups, based on the date on which the application was received and the file was complete. It is best to request information and applications from schools by October of your senior year and plan to have all applications completed by January 1.

The Graduate Record Exam (GRE):
For students applying to any graduate school, the GRE should be taken no later than October of your senior year. While studying is not always necessary, some recent research has indicated it can be very helpful in raising scores. Books devoted to preparation are available at most bookstores and are definitely worth the investment. Application packets for the GRE are available at career services.

Letters of Recommendation:
By the end of your sophomore year, you should begin thinking about getting letters of recommendation. You should get to know your professors outside the classroom, either through office hours or department activities. A good recommendation letter takes some time, so you should request them reasonably early. The number and types of recommendations required varies with each university. Generally, two will suffice, but students often submit three or four. Each school has its own specific recommendation form.

Student Organizations:

The Undergraduate Economics Society (UES):
This is a student-run group of economics majors and other students interested in economics. The purpose is to foster interest in all facets of economics, both theoretical and practical. The intent of the society is not only to serve potential future economists in their academic and pre-professional needs, but also to allow interested students who are not pursuing a career in economics to understand the impact that economics has on day-to-day living. UES is open to all full and part time undergraduates of the University of Pittsburgh. Visit http://www.pitt.edu/~sorc/ues/aboutus.htm.

Omicron Delta Epsilon. (ODE)
The international honor society in Economics has three objectives. First, it recognizes scholastic achievement in economics. Second, it seeks to promote closer ties between economics faculty and students. Third, it provides an outlet for essays and papers written by graduate and undergraduate economics students through the publication of its journal, The American Economist.
Eligibility Requirements:
1. Overall QPA of 3.0 and minimum 60 completed credits at Pitt.
2. Minimum of 15 completed credits in Economics, including Econ 0100 and Econ 0110 or their equivalents, with grades not lower than B in each.
Please contact the advising office for more information.
List of Courses the Department of Economics offers.

Econ 0100  Introduction to Microeconomic Theory
Econ 0110  Introduction to Macroeconomic Theory
Econ 0120  Introduction to Economic Theory
Econ 0160  Introduction to Econometrics
Econ 0180  Economics and the Media
Econ 0200  Game Theory Principals
Econ 0220  Introduction to Health Economics
Econ 0230  Public Finance I
Econ 0280  Intro to Money and Banking
Econ 0330  Urban Economics
Econ 0360  Introduction to Environmental & Resource Economics
Econ 0400  Labor and the Economy
Econ 0430  Women in the Labor Market
Econ 0450  Economics of Technological Change
Econ 0470  Industrial Organization I
Econ 0500  Introduction to International Trade
Econ 0520  Comparative Economic Systems
Econ 0530  Introduction to Development Economics
Econ 0630  East Asia’s Dynamic Economies
Econ 0640  Economic Development of the MENA
Econ 0800  Introduction to Economics
Econ 0900  Economics: Introduction to the Field for Majors
Econ 0905  Special Topics
Econ 1010  American Economic History
Econ 1040  Politics and the Economy
Econ 1100  Intermediate Microeconomics
Econ 1110  Intermediate Macroeconomics
Econ 1130  Operations Research Analysis
Econ 1140  Economic Modeling & Forecasting
Econ 1150  Applied Econometrics 1
Econ 1160  Applied Econometrics 2
Econ 1200  Introduction to Game Theory
Econ 1230  Intermediate Public Finance
Econ 1280  Monetary Theory and Policy
Econ 1300  Intro to Regional Economics
Econ 1310  Methods of Regional Analysis
Econ 1320  Urban Economics
Econ 1360  Environmental Economics
Econ 1410  Collective Bargaining
Econ 1420  Labor Economics
Econ 1440  Economics of Corporation Finance
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