GUIDE TO THE
UNDERGRADUATE PROGRAM
IN ECONOMICS
2017-2018

SYRACUSE UNIVERSITY
THE COLLEGE OF ARTS AND SCIENCES
AND
THE MAXWELL SCHOOL OF CITIZENSHIP AND PUBLIC AFFAIRS

ECONOMICS DEPARTMENT
110 EGGERS HALL
SYRACUSE, NY 13244-1020
315-443-3843
http://www.maxwell.syr.edu/econ
Welcome to the Economics Department!

Here is your guide to the undergraduate program in Economics at Syracuse University. This guide introduces you to Economics degree requirements and offers useful suggestions for designing your program of study. It begins with a discussion of the various opportunities available upon successful completion of the program. A complete description of the B.A. and B.S. tracks follows, with an emphasis on helping you discern the right track for meeting your educational goals. The first part of this guide also covers honor society awards, the Economics Club, and recommended courses of study. The second section provides short descriptions of all courses offered on a regular basis. In the third section, there is a listing of faculty along with their teaching and research interests. The fourth and final section of the book provides useful information about procedural issues such as transfer credits, declaring the major, and community internship programs.

I encourage you to attend the various events that the department holds for majors. These events are publicized in our newsletter, on our website and via email. Through these events, students can become better acquainted with other Economics majors and with the Economics faculty.

As always, our faculty and staff are here to help you make informed choices about your program of study. I welcome your comments on the current handbook and look forward to receiving your suggestions for changes to be incorporated in next year’s handbook.

Best wishes,

Stuart S. Rosenthal
Chair and Professor
Department of Economics
Suggestions for Successful Navigation through the Major/Minor

- Consult with your advisor about selecting the B.A. vs B.S. track as soon as possible (see page 3 of this guide).

- Consult with your advisor (see page 15 for advisor listings) at least once a semester. Go prepared to your meetings by familiarizing yourself with the department’s courses and listing your questions. Go with ideas about economics courses you would like to take.

- Use this guide to inform yourself of the choices about the track you will follow and the economics courses you will take. The major tracks are described on pages 5-6, and 9-10. The minor requirements are listed on page 13. Course descriptions are given on pages 23-26.

- Think about joining the Economics Association. Everyone is welcome. Informative and fun activities are planned by the club advisory board. Activities have included: career/graduate school sessions, networking events, alumni nights, end-of-the-year barbecues, faculty-student socials, peer advising for registration, and debates. See the Economics Student Association website for meeting announcements.

- If you are not already receiving emails about Economics Association events and would like to, send your email address, along with a request to be added to the major / minor listserv, to Matthew O’Keefe

- Read the once-a-semester newsletter. Items appear that are of special interest to you. An electronic copy is automatically sent to all majors. In addition, newsletters are available on the Economics Department webpage.
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PART I
Reasons for an Undergraduate Economics Degree

Economics plays an important role in understanding issues in the modern world. It is not possible to understand fully business decisions, politics, family life, health care, social reforms, or international relations without an understanding of their economic bases. A concentration in economics (major or minor) is intended to give a person the ability to use economic theory and methods to analyze modern economic issues. With the Arts and Sciences economics program housed in the Maxwell School, upper-level electives focus on applying economic theory to a variety of public policy issues. Coupled with other social sciences, humanities, sciences, mathematics, and professional courses, the economics major or minor adds an important dimension to one’s understanding of the modern world.

Careers

A person with an economics degree is quite versatile in the job market, and has a good foundation for later study in business, economics, law, and other social sciences. The undergraduate economics curriculum is designed to train people to think analytically and clearly about issues. Economists are encouraged to think critically and to look for alternative solutions, which are valuable skills in many professions. Employers are especially interested in persons with writing skills, analytical training, and knowledge of statistics. Successful alumni have high-level positions on Wall Street, at Johnson & Johnson Corporation and many other firms, including their own. Recent graduates have positions at General Electric, Cigna, the Bureau of Labor Statistics, Ernst and Young, Martin Marietta, Pitney Bowes, PricewaterhouseCoopers, Prudential Securities, and Revlon Corporation.

Graduate Study

Students contemplating graduate school in economics should ideally pursue the B.S. in economics. In addition to the mathematics requirements of the B.S., they should take two additional semesters of calculus (MAT 397 and MAT 412) and a semester or two of linear algebra (MAT 331, MAT 531), all offered in the Mathematics Department. Students with interests in pursuing graduate degrees in business or public policy programs should take econometrics and perhaps two or three semesters of mathematics, depending on the university program that they wish to attend. In all cases, students who want to attend graduate school should seek advice from a faculty major advisor as early as possible in their undergraduate program.

Visit the American Economic Association website for more useful information on Economics undergraduate and graduate degrees.

Economics Major

Students who want to declare a major in economics should come to the department office, 110 Eggers Hall, for guidance, advice, and the necessary paper work. The staff make the process easy!
Economics Curriculum

Choosing a B.A. or B.S. Degree

Students often wonder whether the B.A. or B.S. track in economics better suits their needs.

The B.A. degree in economics is a strong, analytical major. Students who have followed this track have entered the financial area, law school, or MBA studies, for example. This track, rather than the B.S. track, may be a better track for you if you have multiple majors, if you pick up economics as a major later in your undergraduate career, or if you do not care to pursue economic thinking from a more mathematical/quantitative perspective.

The B.S. track requires mathematical/statistics/econometric components beyond what the B.A. track requires. First, the B.S. track requires the more mathematically oriented intermediate microeconomics (ECN 311, as opposed to ECN 301). Also, the B.S. requires calculus (MAT 295 and 296), mathematical economics (ECN 505), and sequence in econometrics (ECN 521 and 522). These additional requirements offer you an introduction to tools used in economic research. If you intend to pursue a graduate degree in economics (especially a doctorate) or a related field, this is the better option. Doctoral training in economics and other related fields tends to be more mathematical than students anticipate when entering graduate school; these courses give you a preview of the types of things you will see at that level.

Choose the track that better suits your needs. If you have the time to include the additional requirements of the B.S. degree and you enjoy the math, then take that track, regardless of your future plans. If you are unsure of which track to follow, but think the B.S. is a possibility, you should take ECN 311 Intermediate Mathematical Microeconomics provided that you have the required background in differential calculus; this is the first point at which there is some divergence between the tracks. This course, rather than ECN 301 Intermediate Microeconomics will serve as your way of fulfilling the intermediate microeconomics requirement. Later, if you decide not to continue with the B.S., that is fine, i.e., your decision to embark on the B.S. track is not irreversible. If you happen to have already taken ECN 301, but still want to pursue the B.S., take ECN 311; while both courses will not be counted toward your major, you will receive 6 credits for taking both toward your overall college degree.

The following pages clearly spell out requirements for both tracks. It is required that you meet with your Economics advisor each semester to discuss your plan of study as well as have your advising hold released prior to registration.

Economics Major Requirements

The B.A. degree and the B.S. degree have different sets of course requirements. Please read the requirements carefully. Ideally, a student should finish the intermediate theory courses by the end of his or her sophomore year. Students contemplating a major in Economics should visit an Economics faculty advisor, listed on page 15, to review the requirements and course options.
B.A. Economics Degree Requirements
(as of 8/15)

The requirements for a Bachelor of Arts (B.A.) Degree in Economics are:

1. Satisfy the Quantitative Skills requirement of the Arts & Sciences Liberal Arts core and do so before taking ECN 301 and ECN 302.

2. Satisfy principles with ECN 203 or equivalent sequence*

3. Complete ECN 301 (or ECN 311) and ECN 302, and ECN 422.

4. Complete five additional upper-division electives numbered 300 or higher, excluding ECN 301, ECN 302, ECN 303 (formerly ECN 310 Microeconomics for Business), ECN 311, ECN 365, ECN 422, ECN 470 and ECN 521. In addition, two electives must have a prerequisite of ECN 301 (or ECN 311) or ECN 302

TOTAL: 24 Upper-division course credits and principles of economics. An overall grade point average of 2.0 or higher is required in the 24 upper-division course credits.

*Equivalent sequences include Advanced Placement credit and transfer credit for an introductory sequence (microeconomics and macroeconomics).

Quantitative Skills of the Arts & Sciences Liberal Arts Core
The department faculty recommends that Arts and Sciences students take MAT 194 and MAT 284 or higher levels of calculus to satisfy their Quantitative Skills requirement in the Arts & Sciences Core. In addition, any MAT course above 230 will also satisfy three of the twelve credits needed to fulfill the Natural Sciences and Mathematics Divisional Perspectives of the Arts and Sciences Core.

Note: MAT 284 cannot be used to satisfy both the quantitative skills requirement and the divisional perspectives requirement.

Principles of Economics
Students enter the major by completing ECN 203 Economic Ideas and Issues. Advanced Placement courses and transfer credit for introductory microeconomics and introductory macroeconomics may also be used to satisfy the principles of economics requirement.

Intermediate Microeconomics
ECN 311 Intermediate Mathematical Microeconomics is a more mathematical version of the ECN 301 Intermediate Microeconomics course. ECN 311 is recommended for students who have done well in calculus and who like to work with mathematical concepts. Credit toward the economics major can be given for only one of these two courses, ECN 301 or ECN 311.

Upper-Division Electives
An economics faculty major advisor is available to help you select upper-division elective courses in economics that suit your academic interests and career goals. In addition to a number of upper-division elective courses, students may take up to three credits of ECN 490 Independent Study towards their major requirements. For students in the Economics Program of Distinction, ECN 495 and 496 will count as two of the five upper-division elective courses.
ECN 365 The World Economy and ECN 303 Microeconomics for Business (formerly ECN 310 Microeconomics for Business), are designed for non-majors and may not be used to satisfy major requirements. In addition, ECN 470 Experience Credit cannot be taken for credit towards the major.

**Course Substitution**
Pre-approved course substitutions are shown below. Students are required to submit a [Petition to Faculty](#) to count any of these substitutions towards the major requirements.

- Students may count ECN 521 Economic Statistics in place of ECN 422 Introduction to Econometrics and Statistics to satisfy the B.A. requirements. Students may not receive credit for both ECN 422 and ECN 521 towards the economics major.
- Management students may use FIN 355 Money and Banking in place of ECN 481 Money and Banking. Students may not receive credit for both ECN 481 and FIN 355 toward their economics major.

**Transfer Credit**
Students may take economics courses at another college or university provided they receive prior approval from the Economics Department. To request approval, students must submit a [Transfer Credit Petition to Faculty](#) to the Economics Department in advance of taking the course.

**Limit on Transfer Credit**
The Economics Department applies a two-thirds rule to the upper-division economics coursework. Two-thirds of the upper-division coursework (ECN 301, ECN 302, ECN 422, and five upper-division electives) in economics must be taken at Syracuse University or its affiliate programs, such as the SU Abroad Program. In practical terms, no more than two upper-division economics courses can be taken at another college or university for transfer credit towards the B.A. degree.

See page 44 for more policies and information on transfer credit.
B.S. Economics Degree Requirements
(as of 9/14)

The requirements for a Bachelor of Science (B.S.) degree in Economics are:

- Complete MAT 295 AND MAT 296.
- Satisfy principles with ECN 203 or equivalent sequence*
- Complete ECN 311 (not ECN 301) and ECN 302
- Complete ECN 505, ECN 521 (MAS 261 and BUA 345 for Management students) and ECN 522.
- Five additional upper-division electives numbered 300 or higher, excluding ECN 301, ECN 302, ECN 303 (formerly ECN 310 *Microeconomics for Business*), ECN 311, ECN 365, ECN 422, ECN 470, ECN 505, ECN 521, and ECN 522. In addition, two of the upper-division electives must have ECN 311 or ECN 302 as a prerequisite.

TOTAL: 30 Upper-division course credits and principles of economics. An overall grade point average of 2.0 or higher is required in the 30 upper-division course credits.

*Equivalent sequences include Advanced Placement credit and transfer credit for an introductory sequence (microeconomics and macroeconomics).

Calculus Requirement:
Students pursuing the B.S. degree must complete a sequence in calculus of MAT 295 and MAT 296 or higher. Business Calculus (MAT 284) and Life Sciences Calculus I & II (MAT 285 and MAT286) may not be used to satisfy the calculus requirement of the B.S. economics degree.

**Note:** MAT 295 and MAT 296 will simultaneously satisfy both the Quantitative Skills requirement and six of the twelve credits needed to fulfill the Natural Sciences and Mathematics Divisional Perspectives of the Arts and Sciences Core.

Principal of Economics
Students enter the major by completing ECN 203 *Economic Ideas and Issues*. Advanced placement courses and transfer credit for introductory microeconomics and introductory macroeconomics may also be used to satisfy the principles of economics requirement.

Required Coursework for the B.S. Degree
Students are required to take ECN 311 *Intermediate Mathematical Microeconomics*, ECN 505 *Mathematical Economics*, ECN 521 *Economics Statistics*, and ECN 522 *Econometric Methods*. Along with the required calculus courses, the required economics courses give students a good grasp of the technical aspects of the economics field and distinguish the graduate with a Bachelor of Science degree.

Upper-Division Electives
An economics faculty major advisor is available to help you select upper-division elective courses in economics that suit your academic interests and career goals. In addition to a number of upper-division elective courses, students may count up to three credits of ECN 490 *Independent Study* towards their major requirements. For students in the Economics Program of Distinction, ECN 495 and ECN 496 will count as two of their five elective courses.
ECN 365 The World Economy and ECN 303 Microeconomics for Business (formerly ECN 310 Microeconomics for Business) are designed for non-majors and may not be used to satisfy major requirements. In addition, ECN 470 Experience Credit cannot be taken for credit towards the major.

**Course Substitution**
Pre-approved course substitutions are shown below. Students are required to submit a Petition to Faculty to count any of these course substitutions towards the major requirements.

- Students may count MAT 521 Introduction to Probability in place of ECN 521 Economic Statistics to satisfy the B.S. requirements. Students may not receive credit for both MAT 521 and ECN 521 towards the economics major.
- Students enrolled in the School of Management (SOM) may count MAS 261 and BUA 345 in place of ECN 521. Students may not receive credit for both ECN 521 and MAS 261 and BUA 345 toward the economics major.
- Management students may use FIN 355 Money and Banking in place of ECN 481 Money and Banking. Students may not receive credit for both ECN 481 and FIN 355 toward the economics major.

**Transfer Credit**
Students may take economics courses at another college or university provided they receive prior approval from the Economics Department. To request approval, students must submit a Transfer Credit Petition to Faculty to the Economics Department in advance of taking the course.

**Limit on Transfer Credit**
The Economics Department applies a two-thirds rule to the upper-division economics coursework. Two-thirds of the upper-division coursework (ECN 302, ECN 311, ECN 505, ECN 521, ECN 522 and five upper-division electives) must be taken at Syracuse University or its affiliate programs, such as the Syracuse University Abroad Program. In practical terms, no more than three upper-division economics courses can be taken at another college or university for transfer credit towards the B.S. degree.

**Note:** Because of the specialized nature of ECN 311, ECN 505, and ECN 522, it may be difficult to find acceptable substitutes for these courses at another college or university.

See page 44 for more policies and information on transfer credit.
Economics Minor Requirements

To pursue a minor in economics, a student must complete the following requirements:

1. Satisfy principles with ECN 203 or equivalent; and
2. 15 credits of upper division economics courses, including:
   • ECN 301 (or ECN 311) Intermediate Microeconomic Theory
   • ECN 302 Intermediate Macroeconomic Theory
   • Three other upper-division electives in economics (ECN 300 or higher except ECN 301, ECN 302, ECN 311, ECN 470, ECN 495, ECN 496 or ECN 499). In addition, ECN 303 Microeconomics for Business may NOT be taken for credit towards the economics minor. All other special topics courses numbered ECN 310 or ECN 410 can be taken for credit as an upper-division elective.

**TOTAL:** 15 Upper-division course credits are required for the economics minor. An overall minimum grade point average of 2.0 is required of all courses counted toward the minor in economics.

ECN 311 Intermediate Mathematical Microeconomics may be taken instead of ECN 301. ECN 311 is recommended for all students with good analytical abilities and appropriate mathematical preparation and especially for students contemplating graduate school in business, economics or public policy.

School of Management majors who minor in economics may substitute FIN 355 Money and Banking for ECN 481. Students may not receive credit for both ECN 481 and FIN 355 toward their economics minor.

ECN 365 counts towards the Economics minor (**not major**), however, economics minors will not receive credit for both ECN 365 and ECN 465.

All credits for the minor must be Syracuse University letter-graded coursework, except transfer credit (**Academic Rules and Regulations**). Students may transfer only 3 credits from another college or university provided they receive prior approval from the Economics Department. To request approval, students must submit a **Transfer Credit Petition to Faculty** to the Economics Department in advance of taking the course.

Students interested in pursuing a minor in economics should fill out the **Declaration of Minor**. The Declaration of Minor should include minor courses already taken, as well as those anticipated in future semesters to complete the minor.

See page 44 for more policies and information on transfer credit.
Economics Advisors

Each economics major and minor is assigned a faculty member as an advisor. The advisor is available to you for counsel throughout the year. You should discuss your academic schedule and plans with your major/minor advisor at least once per semester. Advisors will also help you with graduate school inquiries, career advice, and other academic matters.

Assignment of Economics Advisors

Check for the initial of your last name and the corresponding professor’s name and room location. Office hours change from semester to semester. Email your advisor for appointments outside of their regularly scheduled office hours.

Major Advisors

<table>
<thead>
<tr>
<th>Your Last Initial</th>
<th>Advisor</th>
<th>Room No./Phone Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - B</td>
<td>Carmen Carrión-Flores</td>
<td>110 Eggers Hall 443-3717 <a href="mailto:cecarro@syr.edu">cecarro@syr.edu</a></td>
</tr>
<tr>
<td>C - D</td>
<td>Elizabeth Ashby</td>
<td>110E Eggers Hall 443-1354 <a href="mailto:eakerste@syr.edu">eakerste@syr.edu</a></td>
</tr>
<tr>
<td>E - G</td>
<td>Michael Wasylenko</td>
<td>426 Eggers Hall 443-9050 <a href="mailto:mjwasyle@syr.edu">mjwasyle@syr.edu</a></td>
</tr>
<tr>
<td>H - J</td>
<td>Leyla Karakas</td>
<td>133 Eggers Hall 443-2294 <a href="mailto:lkarakas@syr.edu">lkarakas@syr.edu</a></td>
</tr>
<tr>
<td>K - L</td>
<td>Abdulaziz Shifa</td>
<td>117 Eggers Hall 443-3802 <a href="mailto:abshifa@syr.edu">abshifa@syr.edu</a></td>
</tr>
<tr>
<td>M - N</td>
<td>Eugene Liu</td>
<td>110G Eggers Hall 443-2078 <a href="mailto:cliu09@syr.edu">cliu09@syr.edu</a></td>
</tr>
<tr>
<td>O - R</td>
<td>Inge O’Connor</td>
<td>110F Eggers Hall 443-9311 <a href="mailto:iwoconno@syr.edu">iwoconno@syr.edu</a></td>
</tr>
<tr>
<td>S</td>
<td>Derek Laing</td>
<td>311 Maxwell Hall 443-3746 <a href="mailto:dlaing@syr.edu">dlaing@syr.edu</a></td>
</tr>
<tr>
<td>Your Last Initial</td>
<td>Advisor</td>
<td>Office No./Phone/ Email Address</td>
</tr>
<tr>
<td>------------------</td>
<td>---------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>T - W</td>
<td>Perry Singleton</td>
<td>426 Eggers Hall 443-3690 <a href="mailto:psinglet@syr.edu">psinglet@syr.edu</a></td>
</tr>
<tr>
<td>X - Z</td>
<td>Jerry Evensky</td>
<td>316B Maxwell Hall 443-5863 <a href="mailto:jevensky@syr.edu">jevensky@syr.edu</a></td>
</tr>
</tbody>
</table>

### Minor Advisors

<table>
<thead>
<tr>
<th>Your Last Initial</th>
<th>Advisor</th>
<th>Office No./Phone/ Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - K</td>
<td>Merima Ali</td>
<td>511 Eggers Hall 443-5874 <a href="mailto:Maali100@syr.edu">Maali100@syr.edu</a></td>
</tr>
<tr>
<td>L - P</td>
<td>Don Dutkowsky</td>
<td>304 Maxwell Hall 443-1918 <a href="mailto:dondutk@syr.edu">dondutk@syr.edu</a></td>
</tr>
<tr>
<td>Q - Z</td>
<td>Bhavneet Walia</td>
<td>511 Eggers Hall 443-3930 <a href="mailto:bwalia@syr.edu">bwalia@syr.edu</a></td>
</tr>
</tbody>
</table>

### Sources of Help and Information

#### Economics Office

The Economics Department office is located in 110 Eggers Hall and the services of the office are available to all economics majors, minors, and other students as well. Advice, forms, curriculum review, graduation requirements, information on departmental activities, and more can be found in the economics office. Stop by or call at your convenience (315-443-3843) or email: economics@maxwell.syr.edu. The department chair, Stuart Rosenthal, and the staff will be glad to assist you.

Normal business hours are: Academic year: Monday through Friday, 8:30 a.m. to 5:00 p.m.; Summer hours: Monday through Friday, 8:00 a.m. to 4:30 p.m.

#### Economics Student Association

The department sponsors an Economics Association that is open to all majors and minors. The Association is run by the economics students, with faculty advisors. The Association sponsors debates, sessions about careers and graduate school, as well as social evenings. The meetings are a
great opportunity for you to network with your peers and find out more about the major and career opportunities. See the Economics Student Association website for meeting announcements. If you are an Economics minor and would like to be notified of Association events, contact Matthew O’Keefe to be added to the listserv.

**Economics Department Newsletter**

The department issues a newsletter each semester to inform majors and minors about issues of vital interest to them. The latest issue is posted on the Department’s website. Hard copies are available in the Economics Department 110 Eggers Hall.

**Recognition of Academic Performance**

**Omicron Delta Epsilon Honor Society**

Omicron Delta Epsilon Inductees, April 2017

Outstanding economics majors are invited to become lifetime members in the Omicron Delta Epsilon international honor society. The society exists to form a community of economists across countries. Membership is based on scholarly achievement and is recognized worldwide. Criteria for selection for the Omicron Delta Epsilon Honor Society include:

- Declared Economics major;
- Junior or senior standing;
- Overall GPA of 3.3 or higher;
- Successful completion of ECN 301 (or ECN 311) and ECN 302;
- Successful completion of at least two upper division ECN courses (300 level or above), excluding ECN 301, ECN 302, ECN 311, ECN 303, ECN 365, and ECN 470;
• Economics GPA of 3.3 or higher calculated from course work taken to date in intermediate theory courses (excluding ECN 203) and upper-division economics electives.

The Economics Department reviews majors' files during the spring semester. Those students meeting the above criteria are invited to join Omicron Delta Epsilon. Students who feel they meet the criteria may also contact the Department.

Visit the Omicron Delta Epsilon web site for more information.

Program of Distinction in Economics

The Economics Department offers a Program of Distinction in Economics under the direction of Professor Perry Singleton. Selected economics students are invited in their junior year to join the program. A two course sequence taken in the student’s senior year, ECN 495 and ECN 496, results in the student researching and writing a thesis under the direction of a faculty advisor. Those students completing the Program who also maintain at least a 3.4 cumulative grade point average graduate with Distinction in Economics. This designation is listed on the transcript after the Economics major as (DPT) and is in addition to honors earned on the basis of grade point average. More information about the program is available at the Program of Distinction in Economics web page. Students with specific questions about the Program should contact the Distinction Program Director in Economics by contacting Professor Perry Singleton.

JoAnn Heffernan Heisen Award

This award is given annually to recognize the academic contributions of an outstanding graduating senior in Economics. The recipient receives a $500 award.
2017 JoAnn Heffernan Heisen Award Recipient

Mengran Zhang

Pictured with Prof. Gary Engelhardt, Chair and Prof. William Horrace
Part II
Courses and Descriptions

The following is a list of courses regularly offered that fulfill requirements for the economics major. Some courses are offered every semester, some only in the fall or spring, and some irregularly. Please check the Syracuse University Course Catalog for seasonal offerings of courses.

**ECN 203 - Economic Ideas & Issues**  Foundation of modern Western economic thought. The model economists have built on this foundation as applied to current issues facing individuals and society.

**ECN 300 - (series on various topics)**  Exploration of a topic not covered by the standard curriculum but of interest to faculty and students in a particular semester. Prereq: ECN 203.

**ECN 301 - Intermediate Microeconomics**  Concepts and tools for the analysis of the behavior of consumers and firms, consumption decisions, market structures, and general equilibrium. Pricing, production, purchasing, and employment policies. Both ECN 301 and ECN 311 cannot be counted toward the economics major/minor. Credit cannot be given for ECN 301 after completing ECN 311. In addition, quantitative skills of the liberal arts core is required. Prereq: (ECN 101 and ECN 102) or ECN 203.

**ECN 302 - Intermediate Macroeconomics**  National product and income concepts, measurements, and relationships; interrelationships of the major segments of the national economy; forces affecting the general level of economic activity. Prereq: (ECN 101 and ECN 102) or ECN 203. In addition, quantitative skills of the liberal arts core is required.

**ECN 304 - The Economics of Social Issues**  Application of tools developed in introductory economics to current issues facing society including, but not limited to: crime, education, farm policy, alcohol/tobacco/drugs, the environment, health care, poverty/inequality, immigration and discrimination. Prereq: (ECN 101 and ECN 102) or ECN 203.

**ECN 305 - Economics of Personal Finance**  This introductory course applies fundamental economic and financial concepts qualitatively to cover aspects of consumer personal finance, including record keeping, banking, saving, borrowing, using credit, investing, insurance, doing taxes, retirement, and end-of-life considerations. Students may not receive credit for both ECN 305 and FIN 378. Prereq: (ECN 101 and ECN 102) or ECN 203.

**ECN 310 - Special Topics in Economics**  This course covers various topics of economic issues offered as available. Prereq: (ECN 101 and ECN 102) or ECN 203.

Examples of possible topics offered listed below:

- Economics in History: Rosie the Riveter

**ECN 311 - Intermediate Mathematical Microeconomics**  Covers the same topics as covered in ECN 301, but the presentation is more mathematical than ECN 301. Required for the B.S. in Economics. Both ECN 301 and ECN 311 cannot be counted towards the major/minor. Credit cannot be given for ECN 301 after completing ECN 311. Prereq: ((ECN 101 and ECN 102) or ECN 203) and (MAT 295 or MAT 296).
ECN 367 - Economics of Globalization  Globalization history; trends; trade pattern determinants; gains from trade; protectionism; trade’s impact on labor, poverty, environment etc.; foreign direct investment; offshoring; trade policy formulation; trade agreements; fair trade; immigration; arguments for and against “leaner” globalization. Prereq: ECN 203 or (ECN 101 and ECN 102)

ECN 400 - (series on various topics)  Exploration of a topic not covered by the standard curriculum but of interest to faculty and students in a particular semester. Prereq: (ECN 301 or ECN 311) and ECN 302.

ECN 410 - Topics in Economic Applications  Various topics in economic policy and applications. Repeatable. Prereq: (ECN 301 or ECN 311) and ECN 302.

Examples of possible topics offered listed below:

- Economic Development
- Topics in Health Economics

ECN 421 - Game Theory and Economic Strategy  A choice by one economic agent typically affects other economic agents. This course teaches concepts useful in predicting how agents behave in such strategic situations. The focus is on applications in economics and other areas. Prereq: (ECN 301 or ECN 311) and (MAT 284 or MAT 285 or MAT 295 or MAT 296).

ECN 422 - Introduction to Statistics and Econometrics  Basic theory and application of probability, statistical inference, and regression analysis. Designed to expose the student to the statistical techniques economists use in estimating, testing, and forecasting economic relationships. For Economics B.A. majors. Prereq: (ECN 301 or ECN 311) and ECN 302.


ECN 437 - Environmental and Resource Economics  Optimal use of exhaustible and renewable resources and pollution. Examines energy sources, environmental amenities and water. Pollution control policies examined include emissions taxes, tradable permits, direct regulation, subsidies, and negotiation. Valuing environmental quality and other non-marketed goods; risk assessment, hedonic pricing and contingent valuation. Prereq: ECN 301 or ECN 311.

ECN 441 - Urban Economics  Theoretical and empirical analyses of growth, structure, and resource allocation in urban regions. Selected urban problems: housing and housing finance, poverty, transportational neighborhood degradation, and financing local public services. Prereq: ECN 301 or ECN 311.

Analysis of mortgage instruments; payment streams, mortgage contracts and risk between lenders and borrowers. Prereq: ECN 301 or ECN 311.

**ECN 451 - Labor Economics**  Contemporary theories and issues of public policy concerning labor supply and demand, wage determination, disincentive effects of public transfer payments (e.g. welfare,) unemployment, human capital, and unions. Prereq: ECN 301 or ECN 311.

**ECN 465 - International Trade Theory and Policy**  Economic causes and consequences of international trade. Models of trade, gains from trade, tariffs and other controls on trade, and international institutions guiding the trading systems. Prereq: ECN 301 or ECN 311.


**ECN 487 - Economic Growth**  The study of economic growth: models, their applications, and empirical evidence across different countries. Emphasis placed on understanding recent advances in the area: particularly, those pertaining to the nexus between growth and labor market. Prereq: ECN 301 or ECN 311.

**ECN 495 - Distinction Thesis Seminar in Economics I**  First semester in a year-long course for economics undergraduate thesis students who are oriented to professional economics research and guided as they define their thesis projects. Senior economic students only. Permission from Instructor.

**ECN 496 - Distinction Thesis Seminar in Economics II**  Second semester in a year-long course for economics undergraduate thesis students who will present ongoing research, constructively engage the work of other thesis writers, and work in cooperation with a faculty mentor to complete research. Senior economic students only. Permission from Instructor.

**ECN 500** - (series on various topics)  Exploration of a topic not covered by the standard curriculum but of interest to faculty and students in a particular semester. Prereq: Varies with topic.

**ECN 505 - Mathematical Economics**  Introduction to use of basic mathematical techniques in economic analysis. Required for the B.S. in Economics. Prereq: (ECN 301 or ECN 311) and (MAT 295 and MAT 296).

**ECN 510 - Special Topics in Economics**  Various special topics of economics issues offered as available. Repeatable. Prereq: ECN 301 or ECN 311.

Examples of possible topics offered listed below: (Prereq. varies with topic)

- Financial Econometrics
- Stabilization and Growth in Emerging Markets
- Topics in Health Economics

**ECN 521 - Economic Statistics**  Statistical methods applied to economics. Conventional descriptive statistics, conceptual and measurement problems peculiar to economics. Analytical statistics, including time-series analysis, elementary theory of probability and statistical inference, correlation and regression analysis. Nonparametric methods. This course is not suitable for students
who have taken six credits of statistics to fulfill their quantitative skills requirement. Quantitative skill requirements of liberal arts core is recommended. Required for the B.S. in Economics. Prereq: ((ECN 101 and ECN 102) or ECN 203) and (MAT 295 and MAT 296).

**ECN 522 - Econometric Methods**  Statistical procedures. Problems of estimating parameters in regression models of economic behavior. Required for the B.S. in Economics. Prereq: (ECN 301 or ECN 311) and ECN 302 and ECN 521.

**ECN 566 - International Macroeconomics and Finance**  Monetary, fiscal, and regulatory consequences of mushrooming international financial markets including equities, bonds, and other securities, commodity and options contracts, and bank deposits and loans. Prereq: ECN 302.

In addition to the above, the following course will fulfill requirements for the economics minor but not the major.

**ECN 365 - The World Economy**  Non-technical introduction to analysis of international economic issues. Protectionism, the multinational firm, the debt crisis, international macroeconomic policy coordination, and European integration. May not be used to satisfy the economics major upper-division elective requirement. Prereq: (ECN 101 and ECN 102) or ECN 203. (Does not count toward the economics major; economics majors should take ECN 465).

The following course is intended for non-majors and does NOT fulfill requirements for the economics major or minor.

**ECN 303 - Microeconomics for Business**  Applies and extends the tools for economic analysis developed in introductory economics to decisions relevant to firms. Topics include optimal production and pricing under perfect and imperfect competition; basic game theoretic approaches to modeling non-cooperative behavior in markets; incentives and basic contract theory, including principal-agent problems; and the economic analysis of markets under asymmetric information, such as insurance markets, with an emphasis on adverse selection and moral hazard. Prereq: (ECN 101 and ECN 102) or ECN 203. (Does not count toward the economics major or minor; economics majors and minors should take ECN 301 or ECN 311).

### Courses of Study for Students with Particular Interests and Career Goals

Most economics students take a variety of upper-division economic course work. Major advisors can help you select courses that match your particular interests. Some general guidelines are listed below.

#### Social Policy

ECN 431 Public Economics, ECN 451 Labor Economics, and ECN 441 Urban Economics discuss aspects of social policy. ECN 431 Public Economics issues with health care, social security, and the influence of taxation and social programs on aspects of human behavior are discussed. ECN 451 Labor Economics emphasizes on issues in human capital creation through education, participation in the workforce and examines how aspects of social policy influence behavior in the workplace.
ECN 441 Urban Economics focuses on the choice of residential location within an urban area and social policies used to address problems in these areas.

**International Economics**

ECN 465 *International Trade Theory and Policy* is the basic course to understand international markets and aspects of commodity trade among countries. ECN 566 *International Macroeconomics and Finance* examines the flow of finances among countries and the influence it has on the economies of various nations.

**Macroeconomics**

ECN 481 *Introduction to Money and Banking* examines monetary policy in depth. It also focuses on institutional and economic aspects of the banking system. ECN 566 *International Macroeconomics and Finance* examines the flow of finance among countries and the influences that open economies have on economic outcomes of a national economy. ECN 410 *Economic Growth* explains the forces that propel long-run improvements in average incomes.

**Legal Interests**

Students interested in law school should take a variety of courses, but can tailor their course work to enhance their economic knowledge of specific aspects of the law. Students interested in international law should take ECN 465 *International Trade Theory and Policy*, future labor lawyers might want to take ECN 451 *Labor Economics*, and nascent tax lawyers should take ECN 431 *Public Finance*.

**More Technical Interests**

Students interested in working as economists or in furthering their education at the graduate level in economics or public policy should take advantage of the more technical B.S. degree track in economics. See page 9 for a description of the B.S. degree.
Part III
Merima Ali (Ph.D. Wageningen University, The Netherlands, 2012)  
Assistant Professor of Economics  
Merima Ali is a development economist. Her research focuses on private sector development and taxation. She is also a Senior Researcher at the Chris Michelsen Institute (CMI), Norway. Prof. Ali teaches courses in development and trade.

Elizabeth Ashby (Ph.D. Syracuse, 2006)  
Assistant Professor of Economics  
Elizabeth Ashby has interests in public finance and labor economics. She has taught Economic Ideas & Issues, Intermediate Microeconomics, Intermediate Macroeconomics, Economics for Managers, and Public Economics.

Badi H. Baltagi (Ph.D. University of Pennsylvania, 1979)  
Distinguished Professor of Economics  
Badi H. Baltagi specializes in econometrics, theoretical and applied. He is an expert on panel data econometrics and spatial econometrics. His applied economics research includes work on rational addiction models for cigarette and alcohol, technical change and factor productivity in airlines and electric utilities, gasoline demand in OECD countries, wage curves, nursing and physicians' labor supply, and gravity models. He teaches econometrics and statistics.

Kristy Buzard (Ph.D. Univ. of California-San Diego, 2012)  
Assistant Professor of Economics  
Kristy Buzard studies contract theory, international trade, and urban and regional economics with a specialization in the political economy of international cooperation and the analysis of institutions. She teaches microeconomics and international economics.

Carmen Carrión-Flores (Ph.D. The University of Arizona, 2007)  
Research Assistant Professor of Economics  
Carmen Carrión-Flores specializes in environmental economics, regional and urban economics, labor economics, and applied econometrics. She teaches Intermediate microeconomics and environmental and resource economics.
**Donald Dutkowsky** (Ph.D. SUNY, Buffalo, 1982)  
Professor of Economics

Donald Dutkowsky specializes in money and banking and macroeconomics. He received the department’s award for outstanding undergraduate teaching in 1992 and for outstanding graduate teaching in 1989.

**Gary Engelhardt** (Ph.D. MIT, 1993)  
Professor of Economics  
Faculty Associate, Aging Studies Institute  
Melvin A. Eggers Economics Faculty Scholar

Gary Engelhardt studies housing markets and retirement, with a special emphasis on borrowing constraints and saving behavior. He teaches economic statistics and econometrics.

**Jerry Evensky** (Ph.D. Syracuse, 1984)  
Professor of Economics

Jerry Evensky has interests in ethics and economics, and Adam Smith. The department named him outstanding undergraduate teacher in 1989. In 1996, Jerry was named a Laura J. and L. Douglas Meredith Professor. This title is given to a select number of professors in recognition of teaching excellence.

**Alfonso Flores-Lagunes** (Ph.D. The Ohio State University, 2001)  
Professor of Economics

Alfonso Flores-Lagunes specializes in labor economics and econometrics. His research focuses on the evaluation of public programs—with an emphasis on both policy implications and methodological advances, the economics of education, and spatial econometrics and applications. He teaches courses in labor economics, evaluation of public programs, and econometrics.

**William Horrace** (Ph.D. Michigan State University, 1996)  
Distinguished Professor of Economics  
Melvin A. Eggers Economics Faculty Scholar

Bill Horrace specializes in econometrics. His research focuses on the measurement of technical production efficiency, the application of multiple comparison procedures to econometric models, and discrete choice models. He teaches courses in statistics, econometrics, and macroeconomics.

**Hugo Jales** (Ph.D. University of British Columbia, Expected Dec. 2015)  
Assistant Professor of Economics

Hugo Jales specializes in labor economics and applied econometrics. His research focuses on the measuring effects of the minimum wage on outcomes such as employment, wage inequality, labor tax revenues and the size of the informal sector. He teaches economic statistics and labor economics.
Leyla Karakas (Ph.D. Johns Hopkins University, 2014)
Assistant Professor of Economics

Leyla Karakas specializes in political economy. Her research focuses on how political institutions such as executive or judicial constraints interact with economic outcomes. She teaches courses in microeconomic theory and has taught game theory and political economics in the past.

Jeffrey D. Kubik (Ph.D. MIT, 1997)
Professor of Economics

Jeffrey Kubik works in the labor economics field and specializes in the effects of government programs on labor supply. He teaches applied microeconomics and labor economic courses.

Derek Laing (Ph.D. Essex, 1990)
Associate Professor of Economics

Derek Laing has interests in macroeconomics, labor economics, and industrial organization. He has taught at Penn State, The University of Illinois at Urbana-Champaign and the University of Wisconsin, Madison. He teaches macroeconomics and courses in applied microeconomics.

Yoonseok Lee (Ph.D. Yale University, 2006)
Associate Professor of Economics

Yoonseok Lee specializes in econometrics, theoretical and applied. His research focuses on semiparametric (dynamic) panel data models, many (weak) instrument problems, model selection in high-dimensional environments, and spatial dependence. For applied topics, he studies social interactions and income polarization. He teaches econometrics and statistics.

Mengxiao (Michelle) Liu (Ph.D. University of Toronto, 2016)
Assistant Professor of Economics

Mengxiao (Michelle) Liu is interested in the organizational behaviors of multinational firms, more specifically, when do firms integrate one another, and when do they choose outsourcing/arm’s length transaction. She teaches international trade at the undergraduate and graduate levels.

Eugene Liu (Ph.D. Syracuse, 2006)
Assistant Professor of Economics

Eugene Liu specializes in labor economics, international trade, and economics of innovation and technology. He has taught Principles of Microeconomics, Principles of Macroeconomics, International Trade and Finance, Economics of Innovation and Technology and Development Economics.
Mary E. Lovely (Ph.D. Michigan, 1989)
Professor of Economics
Melvin A. Eggers Economics Faculty Scholar

Mary Lovely specializes in international economics and public finance. Her current research focuses on trade and the environment, with a special focus on China. She received the department’s award for outstanding undergraduate teaching in 1996 and was named a Maxwell Professor of Teaching Excellence in 2004.

John McPeak (Ph.D. University of Wisconsin, 1999)
Associate Professor and Vice Chair, Public Administration
Assistant Professor of Economics, by courtesy appointment

John McPeak specializes in development economics, natural resource economics, and African agricultural development

Jerry Miner (Ph.D. Michigan, 1958)
Professor of Economics (Emeritus)

Jerry Miner has interests in local finance of public education and educational outcomes as well as infrastructure in developing countries.

Devashish Mitra (Ph.D. Columbia University, 1996)
Professor of Economics
Gerald B. and Daphna Cramer Professor of Global Affairs

Devashish Mitra specializes in international economics. His research focuses on international trade, development, and the application of political economy models to international settings. He teaches courses in international trade and development.

Piyusha Mutreja (Ph.D. University of Iowa, 2010)
Assistant Professor of Economics

Piyusha Mutreja has interests in international economics and economic development. Her research includes international trade and capital composition. She will be teaching economic development.

Inge O’Connor (Ph.D. Syracuse, 1996)
Assistant Professor of Economics

Inge O’Connor’s interests include the cross-national comparison of inequality and earnings capacity. She has taught Economic Ideas & Issues, Intermediate Microeconomics and Economics of Social Issues.

Jan Ondrich (Ph.D. Wisconsin, 1983)
Professor of Economics

Jan Ondrich has interests in econometrics and labor economics. His research includes work on labor supply, health care, discrimination and foreign direct investment. He received the department’s award for outstanding graduate teaching in 1991. He teaches macroeconomics and econometrics.
J. David Richardson (Ph.D. Michigan, 1970)  
Professor of Economics and International Relations (Emeritus)

David Richardson has interests in U.S. trade policy and its influence on U.S. workers, firms, and communities. He was named the department’s outstanding graduate teacher in 1995. He taught microeconomics and international trade and finance.

Stuart Rosenthal (Ph.D. Wisconsin, 1986)  
Professor of Economics, Chair, Dept. of Economics  
Maxwell Advisory Board Professor of Economics

Stuart Rosenthal specializes in the study of housing markets, with special emphasis on local variations in taxes and amenities. He teaches microeconomics, urban and regional economics.

Amy Schwartz (Ph.D. Columbia University, 1989)  
Daniel Patrick Moynihan Professor Public Affairs  
Professor of Economics and Public Administration and International Affairs

Amy Schwartz specializes in applied microeconomics, focusing on issues in education, state and local public finance and urban and social policy. She teaches courses in public policy and public economics.

Abdulaziz Shifa (Ph.D. Stockholm University, 2013)  
Assistant Professor of Economics

Abdulaziz Shifa studies macroeconomics with specialization on economic growth, development and political economy. He is teaching graduate and undergraduate macroeconomics.

Perry Singleton (Ph.D. Maryland, 2007)  
Associate Professor of Economics

Perry Singleton specializes in public finance and health economics. He teaches microeconomics and public economics.

Aaron Tóbiás (Ph.D. Yale University, 2016)  
Assistant Professor of Economics

Aron Tobias has research interest lying at the intersection of microeconomic theory, public finance, and political economy. His recent work analyzes how free movement of labor across borders affects governments’ tax policies. His teaching experience includes graduate-level microeconomics, introductory macroeconomics, and undergraduate tutoring. Currently, he teaches mathematical economics at Syracuse University.

A. Dale Tussing (Ph.D. Syracuse, 1964)  
Professor of Economics (Emeritus)

Dale Tussing has interests in health economics and in educational finance and poverty, both in the United States and in Ireland. He received the department’s award for outstanding undergraduate teaching in 1990.
Bhavneet Walia (Ph.D. Kansas State University, 2008)
Assistant Teaching Professor, Economics

Bhavneet Walia’s fields of specialization include applied statistics, applied econometrics, and health
and labor econometrics. Her research and scholarship includes numerous journal articles that have
appeared in the Journal of Sports Economics, the Southern Economic Journal, the Journal of
Economic Education, and Economics Letters, among others.

Yulong Wang, (Ph.D., Princeton University, 2017)
Assistant Professor, Economics

Yulong Wang specializes in Econometrics, applied econometrics, risk management, and finance. He
is teaching Econometric methods and econometrics.

Michael Wasylenko (Ph.D. Syracuse, 1975)
Professor of Economics; Associate Dean, Maxwell School

Michael Wasylenko specializes in public economics. He received departmental awards for
outstanding undergraduate teaching in 1993 and outstanding graduate teaching in 1992. He also
received the William Wasserstrom Award for Excellence in Graduate Teaching from the College of
Arts and Sciences at Syracuse University in 1994.

John M. Yinger (Ph.D. Princeton, 1974)
Trustee Professor of Economics and Public Administration

John Yinger specializes in urban economics, discrimination in housing, and state and local public
finance. He received the department’s award for outstanding undergraduate teaching in 1994. In
1996, John Yinger received the Chancellor’s Citation for Exceptional Academic Achievement. In
2010, he was given the William Wasserstrom Award for Excellence in Graduate Teaching from the
College of Arts and Sciences at Syracuse University.
Part IV
**Selected Issues and Policies**

**Academic Honesty**

The Economics Department adheres to and strictly enforces the University policy on academic honesty. The text of this policy, found in *Academic Rules and Regulations*, is as follows:

“Syracuse University students shall exhibit honesty in all academic endeavors. Cheating in any form is not tolerated, nor is assisting another person to cheat. The submission of any work by a student is taken as a guarantee that the thoughts and expressions in it are the student’s own except when properly credited to another. Violations of this principle include: giving or receiving aid in an exam or where otherwise prohibited, fraud, plagiarism, the falsification or forgery of any record, or any other deceptive act in connection with academic work. Plagiarism is the representation of another’s words, ideas, programs, formulae, opinions, or other products of work as one’s own either overtly or by failing to attribute them to their true source.” (*Academic Rules and Regulations*).

### Class Codes

<table>
<thead>
<tr>
<th>Total Credits</th>
<th>Class Code</th>
<th>Literal Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-23</td>
<td>1</td>
<td>Freshman</td>
</tr>
<tr>
<td>24-53</td>
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<td>Sophomore</td>
</tr>
<tr>
<td>54-83</td>
<td>3</td>
<td>Junior</td>
</tr>
<tr>
<td>84-119</td>
<td>4</td>
<td>Senior</td>
</tr>
<tr>
<td>120 and above</td>
<td>5</td>
<td>Senior (+119)</td>
</tr>
</tbody>
</table>

**Double Major, Dual Degree, Combined Degree**

**Double Program of Study (Double Major):** Two major programs of study pursued simultaneously in the same college or in two separate colleges of the University. Students must fulfill all the requirements for both major programs as well as all other degree requirements of their home college only. They are only enrolled in one college (i.e. Management students who add economics as a second major are enrolled in the School of Management and have to fulfill the core requirements of only the School of Management, not the Arts & Sciences core). One degree is conferred. One diploma, signed by the dean of the home college, is awarded. (*Academic Rules and Regulations*)

**Dual Degree:** Degree programs pursued simultaneously in two separate colleges of the University. Students are enrolled in both colleges and must fulfill the core requirements of both colleges. However, dual degrees are only offered between colleges which have similar core requirements. Colleges offering dual degrees are Arts & Sciences and Education; Arts & Sciences and Public Communication; Information Studies and Management; Management and Public Communications; Public Communications and Information Studies; and Visual & Performing Arts and Education. One
degree is conferred. One diploma, signed by the dean of each college, is awarded. (Academic Rules and Regulations)

**Combined Degree:** May consist of two undergraduate degree programs or an undergraduate and graduate degree program. Colleges in which faculties have approved combined programs are listed in Academic Rules and Regulations. The following is a synopsis of information given in Academic Rules and Regulations. Students should consult this section for more detailed information.

When both degrees are at the undergraduate level, the two degree programs must be in unrelated disciplines that lead to two different career objectives and normally are two different types of degrees (i.e. B.A. and B.S.) Students must fulfill the requirements for both degrees and complete at least 30 credit hours beyond the normal requirement (usually 120) for one degree. The awarding of the second degree may be either concurrent with or subsequent to the awarding of the first.

When one degree is at the undergraduate level and one is at the graduate level, students must fully meet the requirements for both degrees. The undergraduate degree is awarded before completion of the graduate degree. Students are accepted for graduate study after completion of the third year of study but are not fully matriculated until baccalaureate requirements have been met.

### Declaration of Major

All students wanting an economics major (code EC05BA or EC05BS) must complete a Declaration of Major and a Plan of Study form (page 7 of ECN B.A and page 11 for ECN B.S.). Both forms can be obtained from the Economics Department website. The Declaration of Major form is the official declaration of major; students are not considered official majors until this completed form is submitted to their home college dean’s office. The Plan of Study is internal to the Department of Economics; its purpose is to give the student and faculty advisors a preliminary plan for completing the major requirements. Both the Declaration of Major and the Plan of Study must be reviewed and approved in the Economics Department office before the student takes the Declaration of Major to his/her home college.

When students are adding economics as a second major, they should write both majors on the form. They do not have to go back to the college of their first major for an approval signature for Plan of Study #1; where it says “Approval Signature” they should write “already declared”. Under Plan of Study #2, they need the signature of the Economics Chair.

When students are changing their major from something else to Economics, they should write both majors on the form and write “DELETE” in the “Approval Signature” section for the first major.

In their senior year, students pursuing a B.S. degree in Economics also fill out a B.S. petition to receive the B.S. degree. Students meet with the Sue Lewis in the Economics office to complete this form.

### Math Sequences for Economics Majors

**MAT 183-284:** MAT 183 covers finite math (linear algebra, math of finance); MAT 284 is differential calculus with a slight introduction to integral calculus. One is not a prerequisite for the other; students may take these courses in either order.
**MAT 285-286 and MAT 295-296:** These are similar sequences, with the main difference being that MAT 285 and MAT 286 is geared toward the life sciences and MAT 295 and MAT 296 is geared toward the physical sciences. MAT 285 and MAT 295 are both differential calculus; MAT 286 and MAT 296 are both integral calculus. In both sequences, the first course is a prerequisite for the second. (Note that MAT 295-296 is **required** for the B.S. degree. The MAT 295 and MAT 296 courses provide a better foundation on which to build higher mathematical skills.)

Students should see the Undergraduate Course Catalog for a description of credits given when two different calculus courses are taken from two different sequences.

It is recommended that **students planning to continue their education at the graduate level** take MAT 295 and MAT 296, followed by MAT 397 *Calculus III*. If time and schedule permit MAT 412 *Foundations of Calculus*, and one or two semesters of linear algebra (MAT 331, MAT 531) are also recommended. Please consult with economics faculty about course requirements for graduate school. What is needed depends on where you are applying and the field in which you intend to specialize.

### Credits and Grading

#### Auditing Courses

You may audit courses with instructor approval using the Grading Option Application available in the College Dean's Offices, Registrar's Office or the Economics Department office. You must select the audit option by the grading option deadline, and cannot rescind the selection after the deadline. Audited courses are non-credit, do not meet any degree requirements, and are not counted toward enrollment status. Instructors may record a grading symbol of NA instead of AU if you do not meet stated academic or attendance requirements. You will have limited access to SU library resources if you are auditing a class and are not registered for any credit classes for the term. Courses that require a Proposal for Independent Study, studio art or applied music courses offered by the College of Visual and Performing Arts, and University College BPS and LGL courses cannot be audited.

### Advanced Placement Credits

Students who have attained a minimum score of 4 on the microeconomics and macroeconomics Advanced Placement exams will be awarded credit for ECN 101 and ECN 102, respectively. ECN 101 and ECN 102 are the only economics courses for which Advanced Placement credit may be substituted.

### Flagging Courses

Arts & Sciences students may retake a course for grade improvement. The higher of the two grades is counted in the GPA. For courses retaken more than once, the two earlier grades may be flagged by petition. Flagging, especially when excessive, may have academic consequences. Students are encouraged to speak to their home school/college. Flagging of repeated courses is initiated by the
school/college at the conclusion of the semester in which the course was repeated. Additional information on flagging may be found in Academic Rules and Regulations.

**Incompletes**

You may request an Incomplete if you have exceptional circumstances that prevent you from fulfilling all course requirements on time. You will need your instructor’s approval, and will need to have completed enough course content to have a grade assigned based on your work to date. An Incomplete is not available if you have not completed enough work on which to base a grade. Check with the appropriate instructor about deferred exams and any other requirements. If you take a leave of absence or are withdrawn from the University, you cannot receive Incompletes for courses in which you were registered.

Complete a Request for Incomplete Grade form which is an agreement between you and your instructor that specifies the reasons, conditions, and time limit for removing the Incomplete from your record. An Incomplete will calculate as an F in your GPA. As a function of the agreement, your instructor will calculate a grade for you based on work completed to date, counting unsubmitted work as zero. This is the grade you will receive if a “Removal of Incomplete Grade” form is not submitted to the Registrar’s Office by the appropriate deadline. Registrar’s Forms Webpage

**Transfer Credit Policy**

Only courses with grades of C or better will transfer into Syracuse University. Only the credit will transfer; the grade will not be counted in the GPA. Grades of C- are not accepted by the College of Arts and Sciences.

A maximum of 66 credits may be transferred from a combination of testing programs and two-year colleges. A maximum 90 credits may be transferred from another four-year college. At no time may the total credit hours transferred from college courses and testing programs exceed 90 hours. (Academic Rules and Regulations).

**2/3 Rule:** At least 2/3 of the upper division course work required for the economics major (ECN 301 (or ECN 311), ECN 302, and the upper division electives) must be Syracuse University letter-graded course work. In practical terms, for the B.A. economics degree, no more than two upper-division economics courses can be taken in transfer. For the B.S. economics degree, three courses may be taken in transfer.

For the economics minor, only one course may be taken in transfer credit.

See page 45 for the required steps in transferring credit for courses taken at another college/university.

**Pass/Fail Option**

All courses required for the economics major or minor must be taken for a letter grade; pass/fail grading is not an option. See Academic Rules and Regulations for details on the pass/fail options.
School of Management Agreement

Management Courses for Economics Majors

The Whitman School of Management allows declared economics majors to register for one course in the School of Management each semester beginning with the first semester of the sophomore year. Economics majors are required to follow the prerequisite and level restrictions for each course for which they register.

Each semester the Economics Department supplies the School of Management with a list of declared economics majors who are eligible to register for a course. Students who do not appear on the list are asked to supply the School of Management with a processed copy of the Declaration of Major form or a letter from the Economics Department documenting the declaration of major.

Minoring in Management

Economic majors interested in a business career are encouraged to minor in management. It would also give you access to the Career Center in the School of Management. Please stop by the Office of Undergraduate Programs, School of Management, Suite 215.

FIN 355

Students enrolled in the School of Management may use FIN 355 Money and Banking (offered through the School of Management), as one of the 300-level upper-division electives for the economics major (B.A. or B.S.) or economics minor. Non-Management students, however, should take ECN 481 Money and Banking. Students may not receive credit for both ECN 481 and FIN 355 toward their economics major.

Alternative Credits:

Internship Credit

All internship credit is P/F only and counts as Arts and Science general elective credit. If an Internship Proposal/Agreement form is used, the student is registered as CIP 470 and may only get a P or F grade. Alternatively, if the student wants the internship to be graded and count as credit, the Proposal for Independent Study form must be used instead of the Internship Proposal/Agreement form. The Proposal for Independent Study form must be signed by the department and the Career Services office at 303 University Pl, Suite 235. The student would then be registered for ECN 470 which may be used for Arts and Science elective credit only; ECN 470 cannot be used toward the economics major or minor. These credits must be taken with an economics faculty member; graduate students may not sponsor independent studies.
Experience Credit

Students signing up for experience credit (ECN 270 or ECN 470) should use a Proposal for Independent Study form, filled out in conjunction with their faculty sponsor. Experience credit may be used as Arts & Sciences elective credit only; it may not be used to fulfill any economics major or minor requirement. These credits must be taken with an economics faculty member; graduate students may not sponsor experience credit.

Independent Study

University policy allows a student to take up to a maximum of 24 credit hours in any combination of independent study, experience credit, and pass/fail credits. Economics Department policy allows no more than 3 credits of Independent Study (ECN 490) to count toward the economics major. These credits must be taken with an economics faculty member; graduate students may not sponsor independent studies. Proposal for Independent Study.

Transferring Credit from Another College/University

To find out if credit will transfer you must...

- Complete a Transfer Credit Petition in advance. On the form indicate the following:
  - The name of the college or University where you are taking the course.
  - The title and number of the course (as designated by the other school)
  - How many credits the course is worth (NOTE: if the other college or university is on a different calendar system, i.e. quarter hours, the credits will be converted to semester hours upon transferring to SU)
  - How you want the course to transfer, i.e. Core course, major requirements, elective, etc. (if you wish the course to be specifically equivalent to an SU course, please indicate which course).
  - Attach a catalog course description and/or syllabus to the petition.

- Obtain required signatures (department of major if the course is a major requirement or department of minor if the course is a minor requirement).

- Submit the approved Petition to: College of Arts & Sciences Student Records Office in 323 Hall of Languages.

- It is your responsibility to find out the results of your Petition, we will not notify you.

To receive credit you must...

- Take the course (it must be the one you petitioned)
- Earn a grade of C or better. No pass/fail or courses taken for credit (CR) may transfer.
  Request the institution to send an official transcript to:
Final credit is awarded based upon the information and credit contained on the transcript. Other things you should know...

- Only the credits will transfer, not the grade.
- Although it normally takes 2-3 business days for a Petition to be reviewed, the large volume we receive and the need to send it to other departments for review could make the turn-around time a little longer. **PLAN AHEAD!**
- Although we have no deadline for when the Petition should be submitted, the other College or University will have registration or financial deadlines. Therefore, keep in mind the time it takes for these Petitions to be reviewed. **PLAN AHEAD!**
- You cannot receive credit for the same course twice. We cannot accept in transfer a course for which you have already received credit at SU. It is considered duplicate credit.
- The Petitions are reviewed on the basis of the course description you submit and the information you provide on the Petition. We do not review your record while reviewing the Petition.

**It is your responsibility to know your records.**

**Other Credit Programs:**

**Syracuse University - University College**

Course sections through University College (UC) are restricted to University College students, but do offer a limited number of seats for Main Campus students. Once the limited seats are filled, registration will not be allowed for Main Campus students. Not until the first day of class will empty restricted seats be released for Main Campus students. For this reason, University College recommends Main Campus students recommend as early as possible.

**SU Abroad**

Students may study abroad for a full year, a semester, or a summer without interrupting a normal degree program. All SU Abroad programs offer fully accredited Syracuse University courses. Courses taken through SU Abroad will count as Syracuse University credit, and courses numbered at the 400 level in economics will count as 400 level economics courses at Syracuse University. Students who plan to take courses toward their economics major while abroad should, however, check with the Economics Department prior to going abroad to be sure the selected courses will in
fact fulfill major requirements. For more detailed information on SU Abroad, students should contact the SU Abroad office, 106 Walnut Place, 443-3471.

**Graduation Requirements:**

**Economics GPA for Graduation**

Graduation with an economics major or minor requires a 2.0 GPA in intermediate theory (ECN 301 or ECN 311, and ECN 302) and the upper-division economics courses. While required for the major and minor, the principles and mathematics courses are not calculated in the 2.0 GPA required for the major.

In their senior year, students pursuing a B.S. degree in Economics also fill out a B.S. petition to receive the B.S. degree. Students meet with the Sue Lewis in the Economics office to complete this form.

**Graduation Process**

The Department and its advisors are available for ongoing guidance concerning course selection. The Department does not regularly audit students’ transcripts to verify that all requirements are being met. This job is handled by academic recorders. Just prior to your graduation there will be a formal audit of your transcript to ensure that you have indeed met all requirements. The department can help you meet major requirements; meet with your major/minor advisor to request a review of the requirements for the Economics major/minor. On the Arts and Sciences requirements or those of other schools and colleges, be sure to see your Recorder! Any questions regarding the status of your transcript should be referred to the Registrar’s Office, 106 Steele Hall.

**Diploma Information**

The student’s major or minor are not printed on a student’s diploma. The diploma reflects only the student’s college and degree. (Only the College of Engineering reflects the major on the diploma.) The transcript reports the student’s major(s) and the minor(s) that are completed.

Main campus students’ diplomas are signed by the dean of the home college and the Chancellor. University College students’ diplomas are signed by the Dean of the home college, the University College Dean, and the Chancellor. That is the only difference between University College and main campus diplomas.