13-39 12-110 Senate Info-10/8/13

Undergraduate Distance Education Review Form (Required for all courses taught by distance education for more than one-third of teaching contact hours.)

		Existing and Speci	al Topics Course	
Course:	ECON 345 Inter	national Trade	452 10 10 10 10 10 15 15 15 15 15 15 15 15 15 15 15 15 15	
Instructo	or(s) of Record	Stephanie M. Jozef	owicz	La mode and construction of
Phone:	724-257-2640		ail: Stephanie.Jozefow	vicz@iup.edu
	: Departmenta ecommendation:		jectives of this course of	can be met via distance
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Er	ndorsed: Sign	ature of College Dean	S	Date
University	-wide Undergrad		Studies Office for cons nittee. Dual-level cours raduate-level section.	
	ee: University-wecommendation:	Positive (The objection)	curriculum Committee jectives of this course of	Approval can be met via distance
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Liberal Studies

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#### **Undergraduate Distance Education Review Directions**

**Step One: Proposer** 

A. Provide a brief narrative rationale for each of the items, A1-A5.

# 1. How is/are the instructor(s) qualified in the distance education delivery method as well as the discipline?

I am a qualified instructor. I have used Moodle and MyEconLab software previously in some of my classes. I have taught some class sections using a hybrid approach to integrate online assignments with other course materials. I also have taught fully online sections of ECON 122 Principles of Microeconomics. When I teach fully online class sections. I have used a range of resources and learning management system (LMS) tools including practice assignments, graded homework and exam assignments, discussion board student-student and student-instructor interaction, internet resources, readings, syllabi and other instructional documents, and lecture notes packets and full lecture PowerPoint files. Within Economics, the textbook companies have sought to develop discipline-specific LMS tools that enable substantively more technical and "pretty" mathematical and graphical analysis required for assessment practices than could be built at an individual level through sole use of Moodle/D2L. There are two primary competing LMS technologies, namely MyEconLab and Aplia. The LMS platform that is paired with an appropriate textbook for this course is Aplia. Aplia is a relatively close substitute to MyEconLab, so my past experience will allow for a fairly smooth adoption. The textbook choice will remain the textbook I have used for the past 13 years of teaching face-to-face class sections of this course.

### 2. How will each objective in the course be met using distance education technologies?

Note: All assignments will be submitted through Aplia and/or email, per individual assignment instructions. Aplia has the capability for students to submit essays for the instructor to collect and grade. The threaded discussion board and email will both be available as student-student and instructor-student communication tools regarding all assignments and course content.

Instructor-developed Lecture Notes Packet files and Lecture Presentation PowerPoint files will be posted via Aplia for students. The Lecture Notes Packet files are to be printed by students for use while taking notes after launching the Lecture Presentation PowerPoint files in slideshow viewer mode. This allows students to click through the Presentation to see step-by-step knowledge, calculation, and graphical analysis content developed as if students were sitting in a face-to-face class. (These are the same Notes Packet/ PowerPoint files that I indeed use in my face-to-face classes.) In-class discussion that happens in the face-to-face environment will be shifted to the Aplia Discussion Board.

### Objective 1: Compare and contrast the theories of trade advanced to explain why nations trade.

Lectures, readings, and associated assignments will develop widely used theoretical models that will allow the student to understand complementary and contrasting explanations of why nations trade. Through the use of these models, students will gain insight into observed trade patterns. Students will be asked to review the historic development of international

trade models through excerpts from works by writers such as Adam Smith, David Ricardo, and/or John Stuart Mills. Lecture notes and PowerPoint presentations reinforce student reading and provide students with additional examples of how to complete problem solving analysis using the range of algebraic and graphical tools necessary for working with the theoretical trade models. Assignments will require students to use the models to critically evaluate the potential issues posed by both hypothetical and recent real-world events reported by mainstream news sources. Homework and exam assignments will require students to use, analyze, and interpret numerical and graphical data. Assignments may include multiple choice, True/False, fill-in-the-blank, Yes/No, and/or calculation entry style questions administered through the LMS (which includes built-in graphing functionality); additional writing assignments may be utilized and will require electronic submission to the instructor.

# Objective 2: Assess the impact of free trade on a nation's current standard of living and its future economic growth.

Students will be exposed to this material in readings, lecture notes, and PowerPoint presentation. Lectures, readings, and associated assignments will allow the student to gain insight into how international trade has a direct relationship to a nation's standard of living and economic growth path. Through academic journal readings (available through the IUP library through the EconLit and JSTOR databases) and recent current events news coverage (accessible via mainstream news websites and the IUP library Academic Universe/Lexis-Nexis database), students will be exposed to a range of economic public policy debate topics related to international trade. Discussion will include the potential winners and losers from changing levels of imports and exports. Potential assignments include having students visit websites such as www.nobelprize.org, where students can view streaming videos of the acceptance speeches of award recipients of the Nobel Prize in Economics, some of whose research has been in the area of international economics. Exploration of the "two sides of trade" include writings by economists arguing in favor of international trade and by those leveling criticisms of international trade. Some popular media may be explored (e.g., via YouTube, students may be asked to access a song called. "Red, White, and Pink Slip Blues," which deals with domestic factories closing down as a result of outsourcing). Homework and exam assignments will require students to use the models to critically evaluate the potential arguments in favor of free trade. Assignments may include multiple choice, True/False, fill-in-the-blank, Yes/No, and/or calculation entry style questions administered through the LMS (which includes built-in graphing functionality); additional writing assignments may be utilized and will require electronic submission to the instructor.

# Objective 3: Critique why and how governments interfere with trade, as well as the welfare effects of managed trade.

Students will be exposed to this material in readings, lecture notes, and PowerPoint presentation. Lectures, readings, and associated assignments will develop widely used theoretical models that will allow the student to understand how tariffs and various non-tariff barriers reduce levels of imports and exports. An exploration of current U.S. tariff policy will include an in-depth investigation of the United States International Trade Commission website (http://www.usitc.gov/). Homework and exam assignments will require students to use the models to critically evaluate the potential arguments in favor of trade barriers. Assignments will require students to use, analyze, and interpret numerical and graphical data. Assignments may include multiple choice, True/False, fill-in-the-blank, Yes/No, and/or calculation entry style questions administered through the LMS (which includes built-in

graphing functionality); additional writing assignments may be utilized and will require electronic submission to the instructor.

# Objective 4: Classify multilateral trade-liberalization agreements, strategic trade policy, and economic sanctions.

Students will be exposed to this material in readings, lecture notes, and PowerPoint presentation. Lectures, readings, and associated assignments will develop widely used theoretical models that will allow the student to understand the historical evolution of various multilateral trade-liberalization agreements. Of particular interest is the transformation of the General Agreement on Tariffs and Trade into the modern-day World Trade Organization. Additionally, discussion will focus on how countries can attempt to grow certain industries through strategic trade policy initiatives, as well as attempt to influence foreign governments through implementation of economic sanctions. Investigation of the websites for entities such as the World Trade Organization (http://www.wto.org/index.htm) and the U.S. Court of International Trade (http://www.cit.uscourts.gov/) may be included. Homework and exam assignments will require students to use the models to critically evaluate the potential problems posed by both hypothetical and real-world events. Assignments will require students to use, analyze, and interpret numerical and graphical data. Assignments may include multiple choice, True/False, fill-in-the-blank, Yes/No, and/or calculation entry style questions administered through the LMS (which includes built-in graphing functionality); additional writing assignments may be utilized and will require electronic submission to the instructor.

Objective 5: Categorize regional trade arrangements, the various stages of economic integration, and case studies of economic integration and regional trading blocs. Students will be exposed to this material in readings, lecture notes, and PowerPoint presentation. Lectures, readings, and associated assignments will allow the student to better understand the degree to which countries enter into regional trade arrangements and more complete economic integration. Of particular interest is the evolution of the European Union and the European Monetary Union. Additional attention will be paid to NAFTA and other regional trading blocs. This section will rely heavily on the textbook overview of various regional trading blocs. Additional investigation of websites for entities such as the European Union (http://europa.eu/index\_en.htm), the Office of the United States Trade Representative (http://www.ustr.gov/), and the Association of Southeast Asian Nations (http://www.aseansec.org/) may be included. Homework and exam assignments will require students to use the models to critically evaluate the benefit and cost trade-offs of different degrees of economic integration. Assignments will require students to use, analyze, and interpret numerical and graphical data. Assignments may include multiple choice, True/False, fill-in-the-blank, Yes/No, and/or calculation entry style questions administered through the LMS (which includes built-in graphing functionality); additional writing assignments may be utilized and will require electronic submission to the instructor.

#### Objective 6: Examine trade policies for developing nations.

Students will be exposed to this material in readings, lecture notes, and PowerPoint presentation. Lectures, readings, and associated assignments will allow the student to better understand how international trade affects developing nations. Students will be exposed to an overview of how both the benefits and costs of international trade may differ across developing and advanced nations. This section will rely heavily on the textbook overview of issues related to developing nations. Additional investigation of websites for entities such as the United Nations (http://www.un.org/en/) and the World Bank (http://www.worldbank.org/) may be included. Assignments will require students to use the

models to critically evaluate the potential problems faced by the government leaders and citizenry of developed nations. Homework and exam assignments will require students to use, analyze, and interpret numerical and graphical data. Assignments may include multiple choice, True/False, fill-in-the-blank, Yes/No, and/or calculation entry style questions administered through the LMS (which includes built-in graphing functionality); additional writing assignments may be utilized and will require electronic submission to the instructor.

# 3. How will instructor-student and student-student, if applicable, interaction take place?

The course is designed to promote interaction across both groups of student-student and instructor-student. Multiple channels of communication will be available, and interaction will be required.

Both instructor-student and student-student interaction will be available primarily through email and threaded discussion board participation. Additionally, instructor-student interaction may take place via telephone conversations and/or scheduled face-to-face or online office hours. Students will be encouraged to raise all student-specific grade inquiries directly with the instructor; students will be encouraged to raise all course content and broad course mechanics questions through the threaded discussion board. Participation points will be attached to a minimal level of presence on the discussion board—ideally enough posts to encourage students to figure out how the discussion board works, how they may benefit from Q&A directly, and how they may benefit from reading Q&A posted by other students and the instructor while not too many posts actually required to interfere with the online student's need for a relatively flexible schedule. Students can earn discussion board participation points either by posting questions themselves or by responding to questions other students have posted. Additional threads will be set up such that students can respond to current news topics related to the course and/or other types of application activities.

#### 4. How will student achievement be evaluated?

Student achievement will be evaluated much like it is in a face-to-face class section. Partly, it will depend on whether the class section is designated as W-intensive or not. Non-graded practice problem sets will be made available for early feedback and learning. Graded homework, graded objective and short-answer exams, a current events news journal assignment, possibly additional writing assignments, and participation in a threaded discussion board will all be components of the instructional design.

Assignments will be itemized on the Aplia website. Dates for their final completion will be listed. Assignments will be assessed promptly and grades will be returned to students immediately for all assignments directly graded by Aplia. Criteria for evaluation will be detailed on the syllabus. For example, for essays students will be evaluated on their ability to critically analyze the problem, the degree to which the essay reflects an understanding of the material, and their ability to communicate clearly and effectively.

Example summary of grading:	Participation (Discussion Board):	2%
	International Trade Journal:	5%
	Writing Assignments:	5%
	Homework/In-Class Assignments:	14%
	Major Exam #1:	18%

Major Exam #2:	18%
Major Exam #3	18%
Final exam:	20%
	100%

**Grading scale:** The standards are based on the below percentage distribution. Changes to the distribution may be made at the instructor's discretion, but any changes will be strictly in your favor in terms of expanding the ranges to include lower grade percentages. A: 90 - 100%, B: 80 - 89%, C: 70 - 79%, D: 60 - 69%, F: < 60%.

#### 5. How will academic honesty for tests and assignments be addressed?

After reviewing various approaches to dealing with academic honesty, a number of strategies will be used. All exams will be timed for completion and have a closing date and ending time clearly noted on the website. Basic knowledge questions on exams will be drawn from a pooled set of similar questions, allowing for randomization; advanced mathematical calculation/graphing exams questions by design repopulate with different numbers from one student to another.

Many of the writing assignments are updated every semester and require examination of recent data/court cases/current events such that the potential of plagiarism from one semester to another is greatly reduced. For example, students will likely be asked to visit the U.S. Court of International Trade website and examine either two shorter recent court report documents or one longer recent court document; students are given a specific subset of court cases from which to choose, and this subset is chosen by the instructor and updated from one semester to the next.

Additionally, I will monitor writing assignments for inconsistencies in writing style, inconsistencies in expressed understanding of material across writing and objective assignments, and for suspicion of plagiarism. I maintain either hard or electronic copies of prior student work dating back a number of semesters, and I will use the "Turn It In" technology to evaluate any writings that I suspect of plagiarism of published work.

B. Place the Undergraduate Distance Education Review Form on top of the Proposal and then submit to the department or its curriculum committee the responses to items A1-A5, the current official syllabus of record, along with the instructor developed online version of the syllabus, and the sample lesson. This lesson should clearly demonstrate how the distance education instructional format adequately assists students to meet a course objective(s) using online or distance technology. It should relate to one concrete topic area indicated on the syllabus.

#### **Syllabus of Record**

#### I. Catalog Description

**ECON 345 International Trade** 

3 class hours 0 lab hours

Prerequisites: ECON 121 and ECON 122 or

3 credits

Instructor permission

(3c-0l-3cr)

A study of the microeconomic segment of international specialization and exchange, including theories of international trade and their application to commercial policies, historical survey and examination of current problems of international trade, and the institutional setting of international trade.

# II. Course Outcomes and Assessment (Expected Undergraduate Student Learning Outcomes—EUSLO).

At the end of the course, students will be able to:

#### Objective 1:

Compare and contrast the theories of trade advanced to explain why nations trade.

### **Expected Undergraduate Student Learning Outcomes 1 and 2:**

Informed and Empowered Learners

#### Rationale:

Lectures, readings, and associated assignments will develop widely used theoretical models that will allow the student to understand complementary and contrasting explanations of why nations trade. Through the use of these models, students will gain insight into observed trade patterns. Assignments will require students to use the models to critically evaluate the potential issues posed by both hypothetical and real-world events. Assignments will require students to use, analyze, and interpret numerical and graphical data.

#### **Objective 2:**

Assess the impact of free trade on a nation's current standard of living and its future economic growth.

#### **Expected Undergraduate Student Learning Outcomes 1 and 2:**

Informed and Empowered Learners

#### Rationale:

Lectures, readings, and associated assignments will allow the student to gain insight into how international trade has a direct relationship to a nation's standard of living and economic growth path. Through readings and assignments, students will be exposed to a range of economic public policy debate topics related to international trade. Assignments will require students to use the models to critically evaluate the potential arguments in favor of free trade. Assignments will require students to use, analyze, and interpret numerical and graphical data.

#### **Objective 3:**

Critique why and how governments interfere with trade, as well as the welfare effects of managed trade.

#### **Expected Undergraduate Student Learning Outcomes 1 and 2:**

**Informed and Empowered Learners** 

#### Rationale:

Lectures, readings, and associated assignments will develop widely used theoretical models that will allow the student to understand how tariffs and various non-tariff barriers reduce levels of imports and exports. Discussion will include the potential winners and losers from changing levels of imports and exports. Assignments will require students to use the models to critically evaluate the potential arguments in favor of trade barriers. Assignments will require students to use, analyze, and interpret numerical and graphical data.

#### **Objective 4:**

Classify multilateral trade-liberalization agreements, strategic trade policy, and economic sanctions.

#### **Expected Undergraduate Student Learning Outcomes 1, 2, and 3:**

Informed, Empowered, and Responsible Learners

#### Rationale:

Lectures, readings, and associated assignments will develop widely used theoretical models that will allow the student to understand the historical evolution of various multilateral trade-liberalization agreements. Of particular interest is the transformation of the General Agreement on Tariffs and Trade into the modern-day World Trade Organization. Additionally, discussion will focus on how countries can attempt to grow certain industries through strategic trade policy initiatives, as well as attempt to influence foreign governments through implementation of economic sanctions. Assignments will require students to use the models to critically evaluate the potential problems posed by both hypothetical and real-world events. Assignments will require students to use, analyze, and interpret numerical and graphical data.

#### **Objective 5:**

Categorize regional trade arrangements, the various stages of economic integration, and case studies of economic integration and regional trading blocs.

#### **Expected Undergraduate Student Learning Outcomes 1, 2 and 3:**

Informed, Empowered, and Responsible Learners

#### Rationale:

Lectures, readings, and associated assignments will allow the student to better understand the degree to which countries enter into regional trade arrangements and more complete economic integration. Of particular interest is the evolution of the European Union and the European Monetary Union. Additional attention will be paid to NAFTA and other regional trading blocs. Assignments will require students to use the models to critically evaluate the benefit and cost trade-offs of different degrees of economic integration. Assignments will require students to use, analyze, and interpret numerical and graphical data.

#### **Objective 6:**

Examine trade policies for developing nations.

**Expected Undergraduate Student Learning Outcomes 1, 2 and 3:** 

Informed, Empowered, and Responsible Learners

Rationale:

Lectures, readings, and associated assignments will allow the student to better understand how international trade affects developing nations. Students will be exposed to how both the benefits and costs of international trade may differ across developing and advanced nations. Assignments will require students to use the models to critically evaluate the potential problems faced by the government leaders and citizenry of developed nations. Assignments will require students to use, analyze, and interpret numerical and graphical data.

#### III. Course Outline

A. Trade Theory

(12.5 hours [12.5])

- 1. Globalization of Economic Activity
- 2. Historical Development of Modern Trade Theory
- 3. Ricardian Model
- 4. Hecksher-Ohlin Theorem
- 5. Factor Price Equalization
- 6. Empirical Test of Heckscher-Ohlin Theorem
- 7. Complementary Theories of Trade

Exam 1

(1 hour [13.5])

B. Trade Policy: Tariffs

(10 hours [23.5])

- 1. Types and Goals of Tariffs
  - 2. Measuring Protection: Nominal v. Effective Protection
  - 3. Ways to Reduce and/or Avoid Paying Tariffs
  - 4. The Welfare Effects of a Tariff (both the small and large country models)
  - 5. Arguments for Protection

C. Trade Policy: Non-Tariff Trade Barriers

(7 hours [30.5])

- 1. Import Quota
- 2. Quotas Versus Tariffs
- 3. Export Quotas
- 4. Comestic Content Requiremetrs
- 5. Subsidies
- 6. Other Non-Tariff Barriers
- 7. Dumping

Exam 2

(1 hour [31.5])

D. Trade Regulations and Industrial Policy

(3.5 hours [35])

- 1. Brief History of U.S. Commercial Policy
- 2. Multilateral Trade Liberalization
- 3. The General Agreement on Tariffs and Trade
- 4. The World Trade Organization
- 5. Strategic Trade Policy
- 6. Economic Sanctions

E. Regional Trading Arrangements

(3.5 hours [38.5])

- 1. Regional Integration Versus Multilateralism
- 2. Types of Regional Trading Arrangements
- 3. The European Union

- 4. The European Monetary Union
- 5. NAFTA
- 6. Other Regional Trading Blocs
- F. Trade Policies for the Developing Nations

(3.5 hours [42])

- 1. Developing-Nation Trade Characteristics
- 2. Tensions between Developing and Advanced Nations
- 3. Trade Problems of the Developing Nations
- 4. Economic Growth Strategies: Import Substitution Versus Export-Led Growth

Final Exam (During Finals Week)

(2 hours)

#### IV. Evaluation Methods

Homework and/or In-class Assignments: 15% of overall grade. Objective homework/in-class assignments will be administered for each chapter covered in the text. The homework/in-class assignments will involve a mixture of questions relating to knowledge of core concepts, quantitative analysis, the application of theoretical models developed in class, and the critical evaluation of outside articles.

International Journal: 5% of overall grade. You will keep a current event journal of news articles related to international economic issues. Articles must include either international trade or international finance issues, but the U.S. does not have to be a part of the focus of the article. You are responsible for finding two articles per week for Weeks 1-10 as listed below in the course outline section. You may clip the articles from a newspaper or news magazine or print the articles from the web. See the separate handout assignment for more details.

Writing Assignments: 5% of overall grade. Periodically, writing assignments will be made. The length of assignments will be specified at the time the assignment is given. Writing assignments will be graded on the basis of organization, content, grammar, and punctuation. You may hand in a rough draft of any writing assignment one week before the due date for instructor feedback regarding the quality of your work and suggestions for improvement.

Content Exams: 50% of overall grade. There will be two content exams (each worth 25% of the overall grade) throughout the semester. The content exams will not be comprehensive, meaning that each of the content exams will only cover the information discussed in the prior section(s). Exam questions will stress analysis including short essay questions, numerical problem solving, and defining economic terms or concepts. Using graphs to illustrate your reasoning is a critical part of answering most short essay questions.

Final Exam: 25% of overall grade. The final exam will be scheduled for finals week. The final exam will have the same format as the major exams. The final exam will be comprehensive, covering all of the course material for the whole semester. Exam questions will stress analysis including short essay questions, numerical problem solving, and defining economic terms or concepts. Using graphs to illustrate your reasoning is a critical part of answering most short essay questions.

#### V. Grading Scale

**Grading:** Grades will be assigned using the standard scale. Your total number of points will be averaged, and letter grades will be assigned as follows:

A = 90 to 100%

B = 80 to 89%

C = 70 to 79%

D = 60 to 69%

F = Below 60%

#### VI. Attendance Policy

To be consistent with the Undergraduate Course Attendance Policy as outlined in the IUP Undergraduate Catalog.

#### VII. Required Course Material

(Text) Carbaugh, Robert. *International Economics*. 14<sup>th</sup> ed. South-Western, Cengage Learning. 2013.

Supplemental articles will be assigned through the semester and either distributed in class or made available on-line.

#### VIII. Special Resource Requirements

None

#### IX. Bibliography

#### **Textbooks**

Appleyard, Dennis R., and Alfred J. Field. *International Economics*. 8<sup>th</sup> ed. McGraw-Hill Higher Education, 2014. Print.

Carbaugh, Robert. *International Economics*. 14<sup>th</sup> ed. South-Western, Cengage Learning. 2013. Print.

Caves, Richard E., Jeffrey A. Frankel, and Ronald W. Jones. *World Trade and Payments: An Introduction*. 10<sup>th</sup> ed. Prentice Hall. 2007. Print.

Feenstra, Robert C., and Alan M. Taylor. *International Economics*. 2nd ed. Worth Publishers. 2011. Print.

Gerber, James. International Economics. 6th ed. Prentice Hall. 2014. Print.

Husted, Steven, and Michael Melvin. *International Economics*. 9<sup>th</sup> ed. Prentice Hall. 2013. Print.

Krugman, Paul R., Maurice Obstfeld, and Marc Melitz. *International Economics*. 9<sup>th</sup> ed. Prentice Hall. 2012. Print.

McLaren, John. International Trade. John Wiley & Sons. 2013. Print.

Pugel, Thomas. *International Economics*. 15<sup>th</sup> ed. McGraw-Hill Higher Education, 2012. Print.

Salvatore, Dominick. *International Economics.* 11<sup>th</sup> ed. John Wiley & Sons. 2013. Print.

#### **General Readings**

Barton, John H., Judith L. Goldstein, Timothy E. Josling, and Richard H. Steinberg. *The Evolution of the Trade Regime: Politics, Law, and Economics of the GATT and the WTO.* Princeton University Press. 2008. Print.

Bhagwati, Jagdish. Free Trade Today. Princeton University Press. 2003. Print.

Bongiorni, Sara. A Year without "Made in China": One Family's True Life Adventure in the Global Economy. John Wiley & Sons, Inc. 2007. Print.

Davis, Christina L. Why Adjudicate? Enforcing Trade Rules in the WTO. Princeton University Press. 2012. Print.

Greenaway. David. The World Economy: Global Trade Policy 2012. Wiley-Blackwell. 2013. Print.

Harold, James. *Making the European Monetary Union*. Harvard University Press. 2012. Print.

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Khanna, Ro. Entrepreneurial Nation: Why Manufacturing Is Still Key to America's Future. McGraw-Hill Higher Education. 2013. Print.

King, Philip G., and Sharmila Kumari King. *International Economics, Globalization, and Policy: A Reader.* 5<sup>th</sup> ed. McGraw-Hill Higher Education. 2009. Print.

Mansfield, Edward D., and Helen V. Milner. *Votes, Vetoes, and the Political Economy of International Trade Agreements*. Princeton University Press. 2012. Print.

Orlik, Thomas. Understanding China's Economic Indicators: Translating the Data into Investment Opportunities. FT Press. 2012. Print.

Rieger, Bernhard. The People's Car. A Global History of the Volkswagen Beetle. Harvard University Press. 2013. Print.

Rivoli, Pietra. The Travels of a T-Shirt in the Global Economy: An Economist Examines the Markets, Power, and Politics of World Trade. 2<sup>nd</sup> ed. John Wiley & Sons. 2009. Print.

Roberts, Russell. The Choice: A Fable of Free Trade and Protection. 3rd ed. Prentice Hall. 2007. Print.

Smith, Adam. An Inquiry into the Nature and Causes of the Wealth of Nations. New York: Modern Library, 1937. Print.

Warburton, Christopher E. LSC ICJ701: The Delicts & Criminal Laws of International Economic Relations. McGraw-Hill Higher Education. 2012. Print.

### ECON 345—801 International Trade Course Syllabus

Instructor:	Dr. Stephanie M. (Brewer) Jozefowicz	
Email:	Stephanie.Jozefowicz@iup.edu	
Economics Dept. Phone:	724-357-2640	
My Office Location:	McElhaney Hall 202B	
My Office Phone:	724-357-2642	
Office Hours:	Tuesdays 9:00-10:45 am and 12:45 - 1:15 pm Wednesdays 2:00 - 2:30 pm Thursdays 9:00 - 10:45 am or by appointment	
Course Prerequisites: ECON 121 and ECON 122, or permission of the instructor		
Study of the microeconomic segment of international specialization a exchange, including theories of international trade and their application commercial policies; historical survey and examination of current prointernational trade; and the institutional setting of international trade.		
Course Objectives:	This course aims at helping students understand: 1) The theories of trade advanced to explain why nations trade. 2) The impact of free trade on a nation's current standard of living and its future economic growth. 3) National commercial policies, why and how governments interfere with trade, and the welfare effects of managed trade. 4) Multilateral trade-liberalization agreements—the General Agreement on Tariffs and Trade and the World Trade Organization. 5) Customs union theory; the various stages of economic integration, and case studies in economic integration. This course also aims to improve student writing through a variety of writing opportunities both in and out of the classroom.	

#### **Summary Structure of the Online Course**

In terms of overall course structure, course content and homework/exam assignments are organized into three groupings. These groupings roughly correspond to month-long time periods. Writing assignments will have separate, individually announced deadlines. More details about assignments and grading are included in another portion of the syllabus but are summarized in the following table:

Grouping	Dates to Complete Work	Chapters Covered	Type(s) of Assignments	Due Date for Assignments*
1	Aug. 26-Oct. 4	Ch. 1, 2, 3	HW, Major Exam #1	11:59 pm, Friday, October 4
2	Oct. 5-Nov. 1	Ch. 4, 5	HW, Major Exam #2	11:59 pm, Friday, November 1
3	Nov. 2-Dec. 6	Ch. 6, 7, 8	HW, Major Exam #3	11:59 pm, Friday, December 6
	Dec. 7-Dec. 13	Ch. 1-8	Final Exam	11:59 pm, Friday, December 13

\*All Homework, Major Exams, the Final Exam, Participation/Bonus Points, and Extra-Credit assignment(s) will be accepted up to 11:59 pm on their respective due date. Waiting until the evening of a given due date to begin working on a given group of assignments may mean that you run out of time before you are able to complete all of the assignments. Furthermore, we all know that sometimes the electric power goes off, computer servers crash, computers malfunction, people get sick, etc. If you wait until the proverbial "last minute" (let's say the last 48 hours) to begin working on a group of assignments, then you bear the risks of that time management strategy. Once 11:59 pm on a given due date has come and gone, NO late Aplia assignments will be accepted. Period. I am serious about this. In previous semesters I have had students who have missed one or more assignments for a given due date, and I have NOT reopened those assignments when the affected students have contacted me after the deadline has passed. If you know in advance that some major life issue may be interfering with a given due date, then you need to talk directly with me about the situation—I may be able to work out a mutually acceptable arrangement regarding completion of the assignments, but only if you have contacted me at least 48 hours in advance of the due date (i.e., by 11:59 pm on the Wednesday immediately preceding a given Friday due date).

#### **Textbook and Supplemental Readings**

Robert J. Carbaugh, <u>International Economics</u>, 14<sup>th</sup> edition: The textbook is designed to facilitate learning both inside and outside the classroom. Reading assignments from the text are included on the course outline. You will know what you should be reading if you check the course outline. Instructor-developed lecture notes and PowerPoint presentation materials will be provided by the instructor in addition to the textbook readings. Lecture presentation materials will make more sense if you read the text first; the text will make more sense if you work your way through the lecture material first. Although exam questions are based on the lecture material, the text parallels the lectures. Hence, the readings in the text should be thought of as a supplement to the lecture material.

Supplemental Readings: I will regularly assign readings that range from academic journal articles to popular press news articles to political cartoons. I may request that you access a given assigned reading posted on Aplia, an alternate specified website, the I: drive, or a site accessible through the IUP Libraries web pages.

#### **Assignments and Grading Policy**

International Journal: You will keep a current event journal of news articles related to international economic issues. Articles must include either international trade or international finance issues, but the U.S. does not have to be a part of the focus of the article. You are responsible for finding two articles per week for Weeks 1-10 as listed below in the course outline section. You will need to collect news articles either from online mainstream news sources or by using the IUP Library accessible database called Academic Universe (Lexis-Nexis). The completed journal, along with a journal paper based on the collected news articles, will be due Friday. April 12 by 11:59 pm and should be submitted via Aplia. The combined journal and journal paper assignment will account for 5% of your final course grade. See the separate handout assignment for more details.

Writing Assignments: Periodically, writing assignments will be made. Whether you graduate and enter the work force or continue in school for an advanced degree, communicating through writing will be a necessary and often used tool skill for you. Hence, I consider using writing as

another instructional goal for this course. Writing assignments should be formatted with one inch margins, use Times New Roman or Arial 11-point font, and be double-spaced. The length of assignments will be specified at the time the assignment is given. Writing assignments will be graded on the basis of organization, content, grammar, and punctuation. Writing assignments should be submitted via Aplia. You may submit a rough draft of any writing assignment one week before the due date for instructor feedback regarding the quality of your work and suggestions for improvement. Writing assignments will comprise 5% of your final course grade.

Homework Assignments: Periodically homework assignments will be made. These assignments may be problems from the text or other materials that I prepare. Homework will be accessible via Aplia and should be submitted via Aplia. Homework will count as 14% of your final course grade.

Class Participation: I believe class participation is linked with how well students learn and perform on exams. All students will be expected to participate in the Aplia Discussion Board. Participation points may be earned by posting either questions or answers within designated Discussion Board threads. Participation will count as 2% of your final semester grade.

Major exams: There will be three major exams given during the semester via Aplia. Each exam will be worth 100 points, and each will count as 18% of your final semester grade.

**Final exam**: There will be a final exam given during the week of IUP Final Exams. The final exam will have the same format as the major exams, and it will be administered via Aplia. The final exam will be comprehensive, covering all of the course material for the whole semester. The final exam will count as 20% of your final semester grade.

**Extra-credit:** Under no circumstances will I give extra-credit work to individual students. However, during the semester, I may offer optional class exercises for which extra-credit points can be earned. Offering opportunities for extra-credit is subject to my discretion.

**Grading scale:** The standards are based on the below percentage distribution. Changes to the distribution may be made at the instructor's discretion, but any changes will be strictly in your favor in terms of expanding the ranges to include lower grade percentages. A: 90 - 100%, B: 80 - 89%, C: 70 - 79%, D: 60 - 69%, F: < 60%.

Summary of grading:	Participation (Discussion Board):	2%
	International Trade Journal:	5%
	Writing Assignments:	5%
	Homework/In-Class Assignments:	14%
	Major Exam #1:	18%
	Major Exam #2:	18%
	Major Exam #3	18%
	Final exam:	20%
		100%

#### Miscellaneous

Many students may find it beneficial to discuss the course material with one another. You are encouraged to share helpful suggestions for studying and mastering the material. There is an underlying principle of learning when working together in small groups like this—you can

determine what you know as you are forced to explain the concepts and problem solutions to one another. I encourage use of the Discussion Board for student-student, as well as student-instructor conversation. While a minimum level of Discussion Board participation is being required as part of the course grading policy, I encourage you to engage in more than the minimum level for both your own individual benefit, as well as improving overall class dynamics.

I follow the policy outlined in the IUP Academic Integrity Policy and Procedures with regard to cheating and academic dishonesty. I will give an incomplete only for the specific reasons outlined in the IUP Incomplete policy, so please don't ask for exceptions to these rules. Both policies can be found in the Undergraduate Catalog 2012-2013.

If you historically have not regularly checked your IUP email, you should begin to do so. I sometimes may email the class information, and I only will use your assigned IUP email address. Furthermore, I ask that you only use your IUP email account to email me (you can use the I-mail web interface from any computer if you don't have Outlook Express or other similar program set up for your IUP email address) and that you include "ECON 345" as the first part of the subject line. We're all overwhelmed by junk mail, and this should aid our communication with one another so that we don't accidentally delete important messages.

One IUP service that you may wish to explore: the Writing Center (http://www.iup.edu/writingcenter). If you qualify for services through the IUP Advising and Testing office, please talk with me sooner rather than later about which accommodations you plan to seek if they are directly related to this course.

I will be available for questions or comments about class during my office hours. I will arrange to see you by appointment if you are not able to come see me during the designated office hours. Please talk with me to arrange any appointments.

# Summary of Important Dates for the Semester, Course Chapter Coverage, and Suggested End-of-Chapter Study Questions

Note: The following Study Questions will be considered "fair game" for exam coverage unless otherwise specifically noted in class. While some questions may be formally assigned and graded as part of homework assignments, non-assigned questions remain as "fair game." Additional questions may be added to the list via Aplia announcement postings.

Week 1: Jan. 28-Feb. 3	Ch. 1: The International Economy and Globalization (#2, 3, 7, 8, 10) <u>Drop on Banner ends: Saturday, February 2</u> <u>Add on Banner ends: Sunday, February 3</u>	
Week 2: Feb. 4-10	Ch. 2: Foundations of Modern Trade Theory (#1, 2, 3, 6, 10, 12, 14, 16, 17)	
Week 3: Feb. 11-17	Ch. 2: Foundations of Modern Trade Theory (#1, 2, 3, 6, 10, 12, 14, 16, 17)	
Week 4: Feb. 18-24	Ch. 3: Sources of Comparative Advantage (#1, 2, 3, 5, 7, 8, 9, 10, 11, 13)	
Week 5: Feb. 25-Mar. 3	Ch. 3: Sources of Comparative Advantage (#1, 2, 3, 5, 7, 8, 9, 10, 11, 13)  MAJOR EXAM #1: due by 11:59 pm (l.e., midnight), Friday, March 1	
Week 6: Mar. 4-10	Ch. 4: Tariffs (#1, 2, 5, 6, 7, 8, 9, 13, 14, 15)	
Week 7: Mar. 11-17	Ch. 4: Tariffs (#1, 2, 5, 6, 7, 8, 9, 13, 14, 15)	
Week 8: Mar. 18-24	No classes university-wide (Spring Break): March 18-24 (Monday-Sunday)	
Week 9: Mar. 25-31	Ch. 5: Nontariff Trade Barriers (#1, 2, 4, 6, 7, 9, 10, 16)	
Week 10: Apr. 1-7	Students can view mid-term grades on Banner: Monday, April 1, 8:00 am Ch. 5: Nontariff Trade Barriers (#1, 2, 4, 6, 7, 9, 10, 16) MAJOR EXAM #2: due by 11:59 pm (I.e., midnight), Friday, April 5	
Week 11: Apr. 8-14	Ch. 6: Trade Regulations and Industrial Policies (#1, 2, 3, 4, 6, 7, 9, 11, 12)  International Trade Journal/Journal Paper due by 11:59 pm, Friday, April 12  Individual Course Withdrawal Deadline: Friday, April 12	
Week 12: Apr. 15-21	Ch. 6: Trade Regulations and Industrial Policies (#1, 2, 3, 4, 6, 7, 9, 11, 12) <u>Total Semester Withdrawal Deadline: Friday, April 19</u>	
Week 13: Apr. 22-28	Ch. 7: Trade Policies for the Developing Nations (#1, 5, 6, 8, 10)	
Week 14: Apr. 29-May 5	Ch. 7: Trade Policies for the Developing Nations (#1, 5, 6, 8, 10) Ch. 8: Regional Trading Arrangements (#2, 3, 4, 6)	
Week 15: May 5-May 12	Ch. 8: Regional Trading Arrangements (#2, 3, 4, 6)  MAJOR EXAM #3: due by 11:59 pm (i.e., midnight), Friday, April 9	
Week 16: May 13-16	Last Day of Classes: Friday, May 10 Final Exam; due by 11:59 pm (i.e., midnight), Thursday, May 16 Spring 2013 Commencement: Saturday, May 18 Spring 2013 Semester Grades Available on Banner: Friday, May 24, 8:00 am	

#### DR. S. JOZEFOWICZ'S TOP TEN LIST FOR A SUCCESSFUL SEMESTER:

- Check Aplia website and your IUP email regularly. You are responsible for reading announcement postings and/or email sent to your IUP email account by your instructor. Remember that in my case, I'm only using D2L as an initial entry point for the course and will not be making updates there beyond what is posted at the beginning of the semester to get started.
- 2. You are responsible for completing all assignments by their respective due date. Be sure you are keeping track and not waiting until the last minute to complete the range of homework and major exam assignments.
- 3. KEEP UP—the materials build as the semester progresses—very few students can succeed by just studying the night before the exam. You have many opportunities for working on sample exam questions between formal Aplia homework assignments and other practice materials I may make available. Students who perform at the top of the class generally are the ones who diligently work on these practice materials and ask questions as they go about what they discover they don't understand as well as they thought they did.
- 4. Don't just print the completed PowerPoint presentation slides or view them without taking notes. Rather, print the chapter notes packets provided for you in the "Notes Packets" folder through the Aplia website. Then use the notes packets to thoughtfully work through PowerPoint presentation slides located in the "Lecture Notes" folder through the Aplia website.
- As you thoughtfully work through full PowerPoint presentation slides using the notes packets as discussed above, take excellent notes as if you were in a face-to-face classroom. Furthermore, add your own insights and personalized examples of the concepts covered rather than just filling in the blanks of the definitions or copying the graphs. The more personally meaningful you make the material, the more this will help you as you work on assignments and as you study for exams. For each section of notes, go back and think about how you can reorganize them so they make sense to you (students have found that making flow diagrams can help connect the material in a personally meaningful way).
- 6. If at all possible, make use of office hours—clear up questions as they arise and are fresh on your mind...the additional one-on-one attention does wonders for truly comprehending the material.
- 7. Don't forget about the Discussion Board within Aplia website. Remember that Participation Points are based on you making question and/or answer response posts on the Discussion Board. Furthermore, Q&A postings on the Aplia Discussion Board may enhance your own studying/learning experiences.
- 8. Realize at the outset that you may have to really buckle down and approach studying for this class differently. This class will require much more than basic memorization and regurgitation of definitions. This class has the reputation of being "hard" for a reason. Merely clicking through assignments at break-neck speed is likely to be insufficient to secure an "A" or even a "B" letter grade. You should plan on allocating sufficient time to read the textbook chapters, thoughtfully work your way through the PowerPoint presentations, post questions and/or question responses on the Discussion Board, complete homework/exam assignments by their respective due dates, and work on practice problems from Aplia and the textbook beyond any formal homework assignments as needed to prepare for exams. Historically undergraduate students have been advised time and again to plan on spending 3 hours studying outside of class for every hour of official class time....
- 9. You have tremendous flexibility to complete assignments at your own pace in an online environment. <u>Don't let this flexibility be your downfall!</u> As your instructor, I will do my best to provide necessary structure and feedback within this environment. You must take responsibility for your own learning within this environment. The most frequent comment I hear from students reflecting on their performance in the online course is that they waited too long to get started on each section of material.
- 10. Just as you expect to be treated with respect, remember to treat your fellow students and me with the same high level of respect.

### How to access your Aplia course

ECON 345-801: International Trade

Instructor: Stephanie M Jozefowicz

Start Date: 01/28/2013

Course Key: UXXG-RRKH-72YT

### Registration

Aplia is part of CengageBrain, which allows you to sign in to a single site to access your Cengage materials and courses.

A. Connect to http://login.cengagebrain.com/

B. If you already have an account, sign in. From your Dashboard, enter your course key (UXXG-RRKH-72YT) in the box provided, and click the Register button.
If you don't have an account, click the Create a New Account button, and enter your course key when prompted: UXXG-RRKH-72YT. Continue to follow the on-screen instructions.

### **Payment**

Online: After registering, you can buy access to Aplia from myhome.cengagebrain.com.

**Bookstore:** Purchase access to Aplia from your bookstore. Check with the bookstore to find out what they offer for your course.

After paying, you will have the option to purchase a physical book at a discounted price. If you choose to pay later, you can use Aplia without paying until 11:59 PM on 02/17/2013.



MY HOME

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#### Announcements

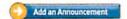


#### **Display Date**

#### Announcement

Th, 02.21.13 10:00 PM Welcome to ECON 345 International Trade! If you have accessed this Aplia course material, you should be registered for my Spring 2013 ECON 345--801 course (Dr. Stephanie M. Jozefowicz listed as the instructor of record). I have selected the the 14e (14th edition) version of Carbaugh: International Economics textbook for use this semester, and I am requiring you to use Aplia for submission of graded assignments. This online class will cover Chapters 1-8. In addition to using the textbook, I may ask you to access other readings. Throughout the semester you should plan on printing the Notes Packet files that are an outline of each chapter designed for you to fill in as you move through the separate Lecture Notes files. These packets will be posted within Aplia. Please note that these files are the same ones I utilize in my face-to-face classes. I am looking forward to this semester, and I hope you are, as well.

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Copyright Notices

### Sample Aplia Assignment (Objective 1)

eplia-	мү номе
	Course Home   Course Outline   Discussion
roblem Set	
oundations of Modern Trade Theory: Comparative Advantage	Printer-friendly Version   Show Answer
View All Ques	stions   Go to: Question 1
uestion 1: The difference between absolute and comparative advantage	Edit Delete
1. The difference between absolute and comparative advantage	Aa Aa 💻
Victor and Sondra run a catering business in which they have two major tasks food for events and parties. It takes Victor 4 hours to prepare the food for an enew client. For Sondra, it takes 15 hours to prepare food for an event and 3 hours t	event and 2 hours of effort to get each
In this scenario, has an absolute advantage in food preparation, advantage in food preparation.	, and has a comparative
Suppose that initially, Victor and Sondra are splitting both tasks for a large nu start shifting some work according to the principle of comparative advantage, comparative advantage in food preparation will take over preparing food for or will use the freed-up time to get more clients. As a result, the total number of remain unchanged, but the number of new clients will increase by	In particular, the person with the ne more event, and the other person
QNA 3.14 © 2004-2013 Aplia. All rights reserved. © 2013 Cengage Learning except as noted. All rights reserved	◆ Grade It Now
Previous Next+	
	stions   Go to: Question 1

#### 2. Absolute and comparative advantage

Contente

	-
Α	1.00

Consider two neighboring island countries, Contente and Felicidad. Each has 24,000 labor hours available per month that it can use to produce corn, jeans, or a combination of both. The following table shows the amount of labor hours required to produce one bushel of corn or one pair of jeans.

Jeans

(Labor hours per pair)

Corn

(Labor hours per bushel)

	Contente	48	12	
	Felicidad	20	10	
nas advantage in the pro	December 2011	n the production of corn, and	has an abso	lute
nitially, suppose Cor	ntente uses 18,000 hours	s of labor per month to produc	e corn and 6,000 hours per	month to
roduce jeans, while	Felicidad uses 6,000 hor	urs of labor per month to prod	uce corn and 18,000 hours	per month to
roduce jeans. Conse	equently, Contente produ	ices 375 bushels of corn and 5	00 pairs of jeans, and Felici	dad produces
800 bushels of corn	and 1,800 pairs of jeans.	Assume there are no other co	ountries willing to trade good	is, so in the
		s, each country consumes the		
		bushel of corn is		
ost of producing one	e bushel of corn is	of jeans. Therefore,	has a comp	arative
dvantage in the pro	duction of corn, and	has a comparativ	e advantage in the producti	on of jeans.
		s in the production of the good		ve advantage,
producing only that	good. It will produce		_ •	
Suppose also that Fe	elicidad does not specialis	ze and uses 18,000 hours of la	bor to produce corn and 6,0	100 hours of
abor to produce jea	ns. It will produce	bushels of corn and	pairs of jeans.	
eans. In particular,	and Felicidad agree to tra Contente will export the	ade with each other, exchangi goods it produces and Felicio	ng 450 bushels of corn for dad will export the goods th	1,350 pairs of at Contente do
not produce.				
With trade, Content	e will corn	and jeans. Fell	cidad willcorr	and .
jeans				
		production of corn is	bushels per month, an	d the total
production of jeans	is pairs pe	r month.		
When Contente spe	cializes and Felicidad sti	Il produces the combination o	f goods using 18,000 hours	of labor to bushels
		s became pairs		
When Contente spe produce corn and 6	is pairs per cializes and Felicidad sti 5,000 hours of labor to p	r month.  Il produces the combination or orduce jeans, the total produces.	f goods using 18,000 hours	of labor

#### 3. Comparative advantage and gains from trade

	-
	190
Aa	should

Consider two neighboring island countries called Felicidad and Contente. They each have 4 million labor hours available per month that they can use to produce corn, jeans, or a combination of both. The following table shows the quantity of corn or jeans that can be produced using one hour of labor.

	Corn	Jeans	
	(Bushels per hour of labor)	(Pairs per hour of labor)	
Felicidad	4	16	
Contente	6	12	

Initially, suppose Contente uses 1 million hours of labor per month to produce corn and 3 million hours per month to produce jeans, while Felicidad uses 3 million hours of labor per month to produce corn and 1 million hours per month to produce jeans. Consequently, Felicidad produces 12 million bushels of corn and 16 million pairs of jeans, and Contente produces 6 million bushels of corn and 36 million pairs of jeans. Assume there are no other countries willing to trade goods, so in the absence of trade between these two countries, each country consumes the quantity of corn and jeans it produces.

asireis or corri and so minion pans	or jednot resource there are no other	countries mining to trade	goods, so in the describe of		
rade between these two countries,	each country consumes the quantity	of corn and jeans it prod	fuces.		
Felicidad's opportunity cost of produ	ucing one bushel of corn is	of jeans, and Conte	nte's opportunity cost of		
		has a compa			
production of corn and	f corn and has a comparative advantage in the production of jeans.				
	ely specializes in the production of the				
producing only that good. In this co	ase, the country that produces corn	will produce	bushels per month, and the		
country that produces Jeans will pro	oduce pairs per mo	nth. In the table at the en	d of this problem, enter each		
country's production decision on the	e second row (marked "Production").				
eans. In the table at the end of the	corn trades 14 million bushels of co is problem, select the quantity of ea de Action," and enter each country's	ch good that each country	exports and imports in the		
	ecialize, the total production of corn	Charles and the control of the contr	The state of the s		
of Jeans was 52 million pairs per m	onth. Because of specialization, the	total production of corn h	as increased by		
bushels per mont	h, and the total production of jeans	has increased by	pairs per month.		
Because the two countries produce	more corn and more jeans under sp	ecialization, each country	y is able to gain from trade.		
Calculate the gains from trade—the	at is, the amount by which each cou	ntry has increased its con	sumption of each good relative		
to the first row of the table. In the	table, enter this difference in the bo	xes across the last row (r	marked "Increase in		
consumption*).					

	Felici	dad	Contente		
	Corn (Millions of bushels)	Jeans (Millions of pairs)	Corn (Millions of bushels)	Jeans (Millions of pairs)	
Without Trade					
Prod. and consumption	12	16	6	36	
With Trade					
Production					
Trade Action	79"	-	~	~	
Consumption	THE PROPERTY.			COLUMN TO SERVE	
Gains from Trade Increase in consumption	23779X-032			SCAFFIERING	

#### 4. Specialization and trade

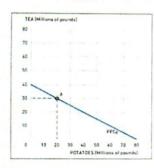
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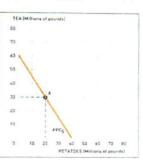
Economists believe that when two countries specialize and trade, each country will be able to buy the goods in which the other specializes at a lower cost than it would take to produce those goods themselves.

The following graphs show the production possibilities schedules (PPCs) for Freedonia and Sylvania. Both countries produce tea and possible structures produce 30 million pounds of tea and 20 million pounds of possibles, as indicated by the grey stars marked. A Assume that when Freedonia and Sylvania open to informational trade, they trade with many other countries, as well with each other.

#### Freedonia

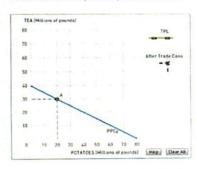
Sylvani



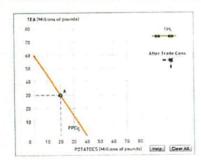


Suppose that Freedonia and Sylvania specialize and open up to international trade, and the terms of trade in the world market are 1 pound of potatoes for 1 pound of tea. That is, Sylvania is willing to sell Freedonia 1 pound of tea in exchange for 1 pound of potatoes, and Freedonia is willing to sell Sylvania 1 pound of potatoes in exchange for 1 pound of tea. The courtries decide to exchange 30 million pounds of Freedonian potatoes for 30 million pounds of Sylvanian tea.

The following graph shows the production possibilities schedule for Freedonia. Use the tan line (dash symbols) to plot the trading possibilities line for Freedonia. Then place a black point (X symbol) on the trading possibilities line to indicate Freedonia's consumption after specialization and trade.



The following graph shows the production possibilities schedule for Sylvania. As you did for Freedonia, use the tan line (dash symbols) to plot the trading possibilities line for Sylvania, and place a black point (X symbol) on the trading possibilities line to indicate Sylvania's consumption after specialization and trade.

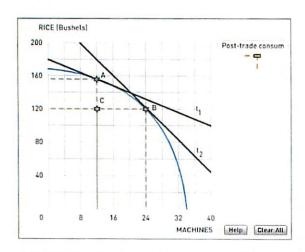


Sylvania and Freedonia have been able to consume at the after-trade consumption bundles you found if they did not engage in international trade.

#### 5. Trading under increasing opportunity costs

Aa 🎩

The following graph shows the production possibilities schedule for the imaginary country of Contente under conditions of increasing costs. In the absence of trade, the relative cost of rice in Contente in terms of machines (or the marginal rate of transformation (MRT) of rice into machines) is shown by the slope of line  $t_1$ , tangent to the production possibilities schedule at point A. Use the graph to answer the following questions.



Which of the following most accurately describes Contente's economy in the absence of trade?

- O Contente produces 156 bushels of rice but consumes only 120 bushels of rice.
- O Contente produces and consumes 12 machines and 120 bushels of rice.
- O Contente consumes 12 machines and 156 bushels of rice.
- O Contente produces 12 machines and 156 bushels of rice.
- O Contente produces and consumes 12 machines and 156 bushels of rice.

The slope of line t <sub>1</sub> reveals that Contente must forego	in order to produce 1
. Hint: To see the slope of the curve, pass the cu	ursor over the diagram.
Suppose that Contente recognizes that it has a comparative advanta decides to specialize in making machines and enters international tra	ade. The international terms of trade (the price o
rice in terms of machines) are shown by the slope of the line t <sub>2</sub> , tang	
point B. The slope of t <sub>2</sub> reveals that now Contente foregoes This means that the absolute slope of the proc	in order to produce one duction possibilities schedule
Assume that Contente chooses to consume the same number of mad drop lines (the olive rectangle) to identify on the graph the post-trad	
According to the graph, Contente's production gain from specialization consumption gain from trade is	on is and its

Suppose that Sweden and Portugal both produpane of stained glass is 8 barrels of oil, while barrels of oil.  By comparing the opportunity costs of product has a comparative advantage in the production the production of oil.  Suppose that Portugal and Sweden consider it specialization and trade as long as it receives exports to Sweden. Similarly, Sweden can gais stained glass for each barrel of oil it exports to Based on your answer to the last question, whiterms of oil) would allow both Sweden and Poil 7 barrels of oil per pane of stained glass 6 barrels of oil per pane of stained glass 6 barrels of oil per pane of stained glass 7 d barrels of oil per pane of stained glass 7 d barrels of oil per pane of stained glass 8 d barrels of oil per pane of stained glass 8 d barrels of oil per pane of stained glass 1 barrel of oil per pane of stained glass 1 d barrels of oi	ortugal's opportuniting stained glass in the of stained glass and	y cost of producing the two countries, you determined the countries of the	or pane of stained glass is 5  or can tell that  is a comparative advantage in  or. Portugal can gain from the pane of stained glass it than of
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has a comparative advantage in the production the production of oil.  Suppose that Portugal and Sweden consider to specialization and trade as long as it receives exports to Sweden. Similarly, Sweden can gais stained glass for each barrel of oil it exports to Based on your answer to the last question, who terms of oil) would allow both Sweden and Portugal of oil per pane of stained glass of barrels of oil per pane of stained glass of barrels of oil per pane of stained glass of barrels of oil per pane of stained glas of barrels of oil per pane of stained glas of barrels of oil per pane of stained glas of the pan	of stained glass and stained g	and oil with each oit of oil for each as it receives more	ner. Portugal can gain from the pane of stained glass it than of
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#### 8. Comparative advantage and import competition

SA Aa



The Czech Republic recently joined the European Union and faces intense import competition from other EU members, such as France. Suppose you have the following data on labor productivity for paper and corn production in the Czech Republic and France. Assume that paper and corn production are measured in constant dollars reflecting the value of the products. Use the Ricardian model to analyze possible effects on each country's paper and corn industries.

#### Sales per Employee (\$ per year)

	The Czech Republic	France
Paper	18,000	22,500
Corn	45,000	112,500

The data suggest that France has an absolute advantage over comparative advantage in	the Czech Republic in	and a
The data suggest that wages in the Czech Republic are	in France.	
As a result of the Czech Republic's joining the EU, employment	in the Czech Republic is likely to	fall in
· · · · · · · · · · · · · · · · · · ·	and the death republic is interputed	
Over time, the degree of openness of Czech economy will influ		
Over time, the degree of openness of Czech economy will influing the impact on	ence	, and will have

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. Grade It Now

ECON 345-801

Dr. Stephanie M. Jozefowicz

Writing Assignment #1: Adam Smith
Due date: 11:59 pm, Friday, February 8 via Aplia Submission

Access the following reading posted within Aplia: An excerpt from Adam Smith's *An Inquiry into the Nature and Causes of the Wealth of Nations*. Read this excerpt one or more times. The excerpt may seem short, but bear in mind that it was originally published in 1776. Accents aside, if you were to go back to Scotland in 1776, you would find people speak and write very differently than we do today. Hence, don't be surprised if you need to re-read the excerpt multiple times.

Write a 1-2 page paper (typed, double-spaced, Times New Roman or Arial 11-point font) in which you summarize Adam Smith's arguments in your own words and include more up-to-date illustrations of his main points. In other words, Adam Smith wrote about things that he personally observed such as wool being produced in Scotland and traded for wine that had been produced in France and tailors exchanging clothing products for shoes made by the shoemaker. Likely, you haven't made a recent trip to the village tailor or the shoemaker. Nevertheless, you encounter imported products and purchase goods and services from people who have specialized jobs on a daily basis. Hence, in your paper, provide a modern example of a trade relationship that would illustrate Adam Smith's main ideas and make more sense to an IUP freshman.

Paper Grading Rubric-50 points as follows:

Title (other than "Adam Smith"):	1 points	Consistent Verb Tense:	2 points
Spelling:	2 points	Transitions/Flow:	2 points
Capitalization:	2 points	Clarity:	2 points
Punctuation marks:	2 points	Conciseness:	2 points
No run-on sentences:	2 points	Organization:	2 points
Complete sentences:	2 points	Introduction:	2 points
No awkward sentences:	2 points	Conclusion:	2 points
Not starting sentences with "but," "and," "or," "because," or "so":	2 points	Formatting:	1 points
Not ending sentences with a preposition:	2 points	Handing in 2 copies:	1 points
Not using 2 <sup>nd</sup> person voice:	2 points	Content:	15 points

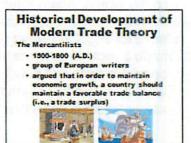
Chapter 2, Part 1-Foundations of Modern Trade Theory: Comparative Advantage (Objective 1)

Lecture Presentation PowerPoint slides (Note: there are 17 pages of these, even at 6 slides per page. I have included pages 1-5 and 12-17 in this document. I am happy to provide the full version of the PowerPoint for further review as necessary. Additionally, I have intentionally set up this Lecture Presentation file to not print well (graphics fly in and out in slideshow mode but are all laid on top of each other when printed), because I don't want students printing these slides. Rather, students are asked to print the corresponding Lecture Notes Packet file and then launch the Lecture Presentation PowerPoint file in slideshow mode to click through stepby-step and to take notes using the Notes Packet as if they were sitting in a face-to-face lecture.

9/11/2013

CHAPTER 2, Part 1 **Foundations of Modern Trade** Theory: Comparative Advantage

**ECON 345** International Trade Dr. Stephanie M. Jozefowicz



#### **Historical Development of Modern Trade Theory**

The Mercantilists

- era of exploration and colonization by Europeans, partly to secure new resources that would be shipped back to the home country for consu and for further processing...
- e.g., consider English colonization:
  - •sugar from Caribbean
  - · tea from India

**Historical Development of** 

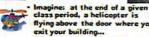
#### **Historical Development of Modern Trade Theory**

The Mercantilists

- run out of new lands to colonize...
  - eventual growing criticism of mercantilist views
- David Hume, Adam Smith, David Ricardo, John Stuart Mill, and other philosopher/economist/political scientists of late 1700s and early 1800s begin theoretically explori

#### **Modern Trade Theory** Price-specie-flow doctrine

- David Hume
  - · \*1754



Money is being dropped from sky—free for the taking, no strings attached

#### **Historical Development of Modern Trade Theory**

Price-specie-flow doctrine

- You are able to pick up \$500...what will you do with it?
- Presumably you will spend some,
- and perhaps you will save son You weren't the only one picking money—lots and lots of it was ava
- simultaneously there were helicopters at IUP, Pitt, CMU, Penn State, and other colleges around the Commonwealth of Pa
- Hence, lots of spending takes place!

#### Historical Development of Modern Trade Theory

Price-specie-flow doctrine

- Now, from a microeconomics perspective, what happens to demand for various goods and services?
  - (demand increases!)
- Hence, what happens to equilibrium prices in each of these markets?
  - (P. increases!)



#### Historical Development of Modern Trade Theory

Price-specie-flow doctrine

- Now, from a macroeconomics perspective, what happens as equilibrium prices in lots of individual markets rise?
  - (it's called inflation!)
- Hence, ceteris paribus, this means that domestic goods seem more expensive relative to foreign-made goods both at home and abroad. As a result, what happens to domestic imports? To exports?
- (domestic imports rise! exports fall!)

#### Historical Development of Modern Trade Theory

Price-specie-flow doctrine

Returning to the mercantilist argument that a positive trade balance (i.e., a trade surplus) should be maintained:



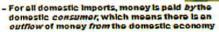
trade balance = exports - imports

- Hence, if exports fall at the same time that imports rise, what happens to a positive trade balance?
  - (the trade surplus shrinks and eventually may be eliminated)

#### Historical Development of Modern Trade Theory

Price-specie-flow doctrine

- · Now, connecting the helicopter:
  - For all domestic exports, money is received by the domestic seller, which means there is an inflow of money into the domestic economy



 Thus, when there is a positive trade balance, there is an overall not inflow of money into the domestic economy (i.e., like a helicopter dropping money from the sky)

#### Historical Development of Modern Trade Theory

Price-specie-flow doctrine

- · Final punchline:
  - A positive trade balance cannot be maintained forever, since a trade surplus leads to...
    - · More spending...
    - · Increased demand in various markets...
    - · Increased prices in various markets...
    - · Overall Inflation...
    - · Arise in Imports...
    - · A fall in exports...
    - · Eventual elimination of the trade surplus

### Historical Development of Modern Trade Theory

Absolute advantage

- Adam Smith
- . The Wealth of Nations
- 1776
- Real-world observations from life in Scotland:
  - Sheep raised in Scotland for wool production
  - Grapes grown in France for wine production
  - International trade of wool for wine

#### **Historical Development of Modern Trade Theory**

Absolute advantage

- - Why sheep in Scotland?
     Why wine in France?

    - Get more wool from same number of sheep in Scotland compared to France, since cooler temperature in Scotland means sheep grow thicker wool costs there...
    - Get more wine from same acreage of grapes in France, since warmer temps mean bigger grapes...

#### **Historical Development of Modern Trade Theory**

Absolute advantage

- · Read the Adam Smith/Wealth of Nations excerpt that is posted
- · Complete the Adam Smith assignment that is posted



#### **Historical Development of Modern Trade Theory**

Comparative advantage

- · David Ricardo
- 1817
- · The Principles of Political Economy and Taxation
- Unsatisfied with Smith's theory, since didn't explain why trade happens when one trading partner has the absolute advantage in all tasks (or why a large nation with more resources would trade with a small nation)

#### **Historical Development of Modern Trade Theory**

Comparative advantage

- · Consider the following story:
  - A new (just graduated) lawyer returns to her h town to open her own private law practice



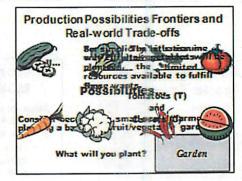
- She hires a secretary, selecting an individual who has the best overall skills among the applicant pool

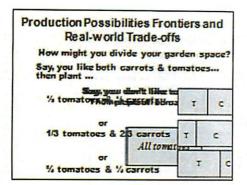


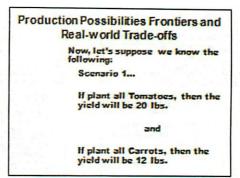
#### **Historical Development of Modern Trade Theory**

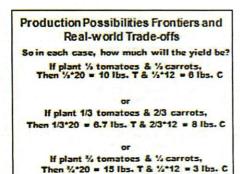
Comparative advantage

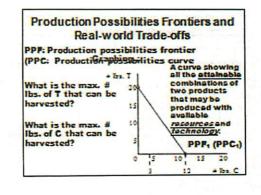
- -The lawyer can actually type more words-per-minute than can the
- Does this mean the lawyer, who has an absolute advantage in both typing and "lawyer" tasks, should spend her time doing basic typing?
- No! The lawyer should focus on (i.e., specialize in) "lawyer" tasks and leave basic typing to her secretary...

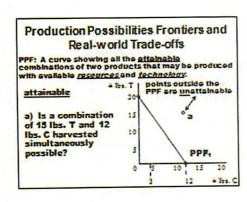


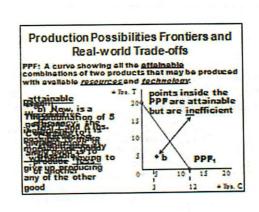






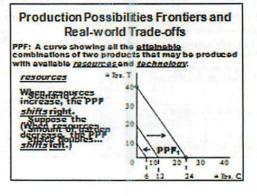


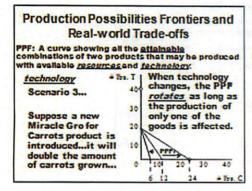


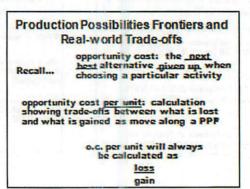


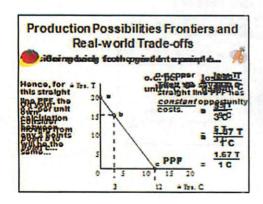
#### Production Possibilities Frontiers and Real-world Trade-offs PPF: A curve showing all the <u>atteinable</u> combinations of two products that may be produced with available <u>resources</u> and <u>fechnology</u>. . Ibs. T points on the PPF itself are attainable c) P(RSIII), is a configuration of 15 to 1.7 Ward 3 lbs P(P) Noted ain lines with 15 to 15 G both 15 attainable and efficient 10 5 PPF. 0 15 20

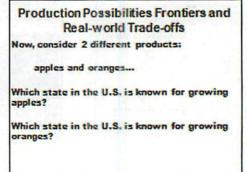
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#### Trade

Extending beyond ECON 122 type coverage

New Language for the Same Ideas...

PPF: also can be referred to as a production possibilities schedule or a transformation schedule

Transformation schedule: as move along the PPF, considering "transforming" production of one good into production of the other good

o.c. per unit calculation: marginal rate of transformation (MRT)

MRT: shows the amount of one product a nation must sacrifice to get one additional unit of the other product

#### Trade

Extending beyond ECON 122 type coverage

New Language and Concepts...

autarky: the absence of trade

i.e., working in isolation from other people and/or countries...e closed economy

#### Trade

· Extending beyond ECON 122 type coverage

New Language and Concepts...

Trading possibilities line (tt): If start with good for which a given person/country has the comparative advantage, what would be expected if you traded every single unit you produce for the other item based on your agreed upon terms of trade?

Going back to Jim and Staph ...

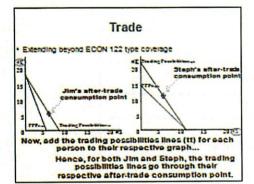
#### Trade

Extending beyond ECON 122 type coverage

PE =	1 S		5 S	and	Ps = 2E
-	JI	m	Ste	ph	Convert Jim's 18
	E	S	E	S	into the equivale
Produce	+18	0	0	+12	based on the te
Trade	-12	+6	+12	-6	16
Consuma	+6	+6	+12	+6	18E . 10 =

onvert Jim's 18 E to the equivalent umber of sides ased on the terms trade... E . 18 = 98 2 F

Also, convert Steph's 12 S into the equivalent number of entrees based on the terms of trade... 12.5 - 2E = 24 E



#### Trade

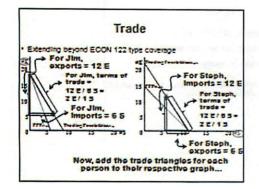
Extending beyond ECON 122 type coverage

New Language and Concepts...

Trade triangle: a triangle showing a given country's

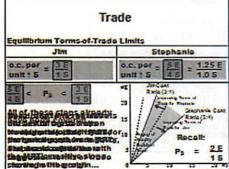
- 1) exports
- 2) Imports
- 3) terms of trade

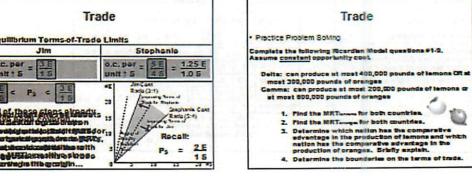
Going back to Jim and Steph...



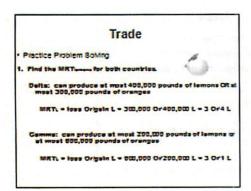
### Trade Extending beyond ECON 122 type coverage New Language and Concepts... Terms-of-Trade Limits: the region of mutually beneficial trade is bounded by the cost ratios of the To determine the outer limits within which the equilibrium terms of trade must fall, we're going to return to the MRT calculations

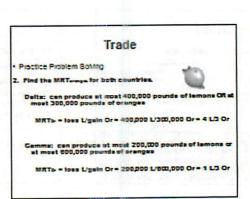
Going back to Jim and Steph...





two countries





#### Trade

- Practice Problem SoMing
- Determine which reson has the compensive advantage in the production of lemons and which neston has the compensite advantage in the production of oranges. Edelly explain.

Delta: MRTo = loss Ugsin Or = 400,000 U300,000 Or = 4 U3 Or

MRTs - less L'gein Or - 200,000 L'800,000 Or - 1 L3 Or

For Delta MRT. =3 Or4 L <3 Or1 L = MRT. for Gamma.

Hence, Delta has the comparative edvantage in Lemons.

For Gamma MRTo. = 1 L3 Or < 4 L/3 Or = MRTo. for Deba.

Hence, Gamma has the comparative advantage in Oranges.

### Trade Practice Problem Solling MRT> - loss Ugsin Or - 400,000 U300,000 Or - 4 U3 Or MRTs - loss Ligain Or - 200,000 L/600,000 Or - 1 L/3 Or 1 L/3 Dr < Po < 4 L/3 Dr

#### Trade

Proctice Problem Solving
Complete the following Ricardian Model questions #1-3.
Assume constant opportunity cost.

ow, suppose the price of lemons is 7.3 pounds of orr per 1 pound of lemons. Further, suppose that Delta to trade 100,000 pounds of lemons.

- 5. How many pounds of cranges will be expected in return for 100,000 pounds of lemons?

  6. Show the after-trade consumption table for both countries.

  7. Explicitly show gains from trade for both countries by plotting the original FFFs and the aftertrade consumption points for each country (1 graph for each country).
- Depict the trade triangles for each country in your graphs...be sure to include the Trading Possibilian.

#### Trade

3 0r/4 L < Pt < 3 0r/1 L

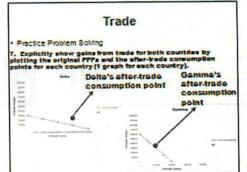
- · Practice Problem Solling
- How many pounds of oranges will be expected in return for 100,000 pounds of lemons?

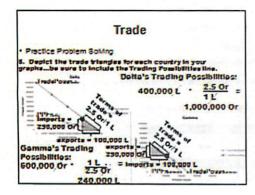
(Now, suppose the price of lemons is 7.5 pounds of ors per 1 pound of lemons. Further, suppose that Delta of to trade 100,000 pounds of lemons.)

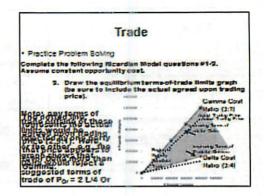
#### Trade

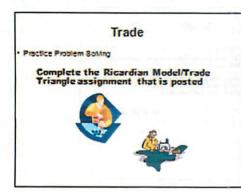
- · Practice Problem SoMing
- motion table for both countries. w the atter-trade cor

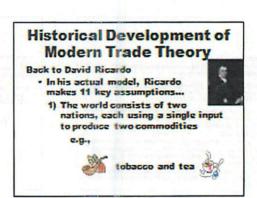
	Delta		Gamma	
	LO	Or 😜	LO	Or 😜
Produce	400,000	0	0	600,000
Trade	-100,000		+100,000	
Consumo	+300,000	+250,000	+100,000	+350,000

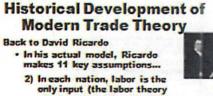


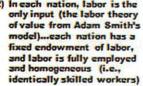












# Historical Development of Modern Trade Theory Ricardian Model Assumptions 3) Labor can move freely among industries within a nation but is incapable of moving between nations (i.e., no immigration allowed) 4) The level of technology is fixed for both nations...different nations may use different technologies, but all

firms within the same nation utilize

a common production method for

each commodity

#### **Historical Development of** Modern Trade Theory

Ricardian Model Assumptions

5) Costs do not vary with the level of production and are proportional to the amount of labor used (say, pay each worker \$1..then if hire 0 workers, pay \$0 total for labor costs; if hire 1 worker, pay \$1 total for labor costs; if hire 2 workers, pay \$2 total for labor costs; if hire 3 workers, pay \$3 total for labor costs, etc.

#### **Historical Development of Modern Trade Theory**

Ricardian Model Assumptions



6) Perfect competition prevails in all markets...because no single producer or consumer is large enough to influence the market, all Note: in econproducers are "price takers"... 127 you seek sproduct quality does not vary whole chapter among nations (i.e., identical learning these products)...there is free entry/exit of firms in an industry, and the price of

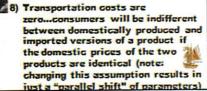
each product equals the product's

#### **Historical Development of Modern Trade Theory**

Ricardian Model Assumptions



7) Free trade occurs between nations; that is, no government barriers to trade exist



#### **Historical Development of Modern Trade Theory**

marginal cost of production

Ricardian Model Assumptions



- 9) Firms make production decisions in an attempt to maximize profits; consumers maximize satisfaction (utility) through their consumption decisions
- 10) There is no money illusion; that is, when consumers make their consumption choices and firms make their production decisions, they take into account the behaviors of all prices

#### Historical Development of **Modern Trade Theory**

Ricardian Model Assumptions

11) Trade is balanced (exports must pay for imports), thus ruling out flows of money between nations



#### Historical Development of **Modern Trade Theory**

Theory of Reciprocal Demand

- · John Stuart Mill
- · 1848
- · Principles of Political Economy
- · Within the outer limits of the terms of trade, the actual terms of trade are determined by the relative strength of each country's demand for the other country's product

#### Historical Development of Modern Trade Theory

Theory of Reciprocal Demand

- If 2 nations of approximately the same size and with similar taste patterns participate in international trade, the gains from trade will be shared about equally between them
- If 2 nations of approximately the same size have different taste patterns, then for the country more eager for a product, the terms of trade will be less favorable since with greater demand in this country should expect a higher price

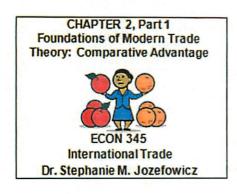
#### Historical Development of Modern Trade Theory

Theory of Reciprocal Demand



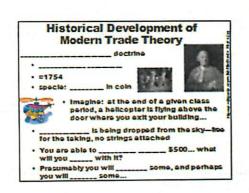
- If one nation is significantly larger than the other, the larger nation attains fewer gains from trade while the smaller nation attains most of the gains from trade
  - -in the Terms-of-Trade Limits graph, the actual terms of trade is very close to the large nation's cost-ratio line
  - "importance of being unimportant"

Lecture Notes Packet (Note: I am including pages 1-5 and 10-14 of 14 pages to parallel the Lecture Presentation PowerPoint slides included in the previous section.)



Historical Development of Modern Trade Theory
group of
would be shipped back to thecountry for consumption and for further e.g., consider English colonization:

	al Develop n Trade Ti	
The Mercantilists		
• problem: ev	of new	1 1
lands to col	ontze	7.77
oventual green mercantilist		0f
• David	Adam	David
		and other
philosopher	oconomist/poli	tical scientists of
	and early 1800s	
	y exploring	
	lopics	5-7

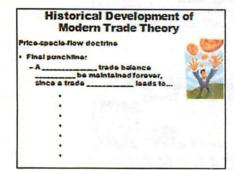


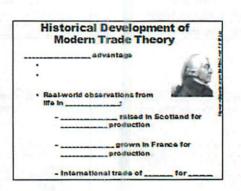
Historical Deve	elopment of
Modern Trad	
Price-specie-flow doctrine	. (6)
<ul> <li>You weren't the only one pi money—lots and lots of it w simultaneously there were i IUP, Pitt, CMU, Penn State, colleges around the Common</li> </ul>	as available— helicopters at and other
· Hence, lots of	takes place!
· Now, from a	perspective,
	perspective, for various goods
Now, from a what happens to	

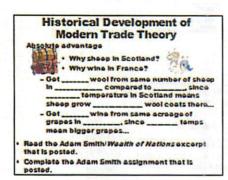
	orical Devel		
M	odern Trade	Theory	
Price-spe	cie-flow doctrine		
Now, from			7
perspecti	re, what happens	25	
	m prices in	of	1
individual	markets rise?		A III
_			
Hence, ce	teris paribus, th	is means that	_
relative to	foreign-made g	oods both at	
	and		hat
	o domestic impo		
1 1000		Processing Indiana	

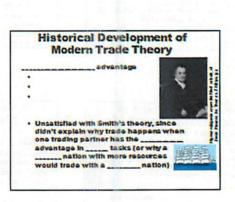
Historical Development of Modern Trade Theory	of
Price-specie-flow doctrine	(Aug)
Returning to the mercantilist argument that a trade	UL PASS
balance (i.e., a trade) should be maintained:	V
trade balance =	1
Hence, if exports at the sam that imports, what happens positive trade balance?	

Historical Dev Modern Tra	THE RESIDENCE OF THE PARTY OF T
Price-specie-flow doctrine	a Chief
· Now, connecting the helic	copter:
received the dome which means there is a money the do	nor
domestic	money is paid the which means there is an the domestic economy
- Thus, when there is a p- there is an overall	ositive trade balance, of money conomy (i.e., like a



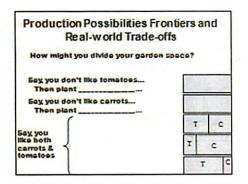


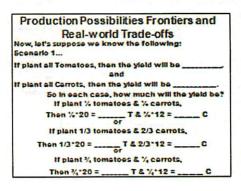


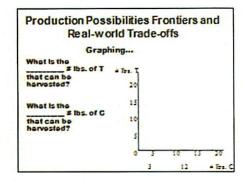


Historical Development of Modern Trade Theory
Comparative advantage
Consider the following story:
roturns to her home town to open her own privatepractice
She hires a solecting an individual who has the best overall skills among the applicant pool
- The lawyer can actually type words-per-minute than can the secretary
- Does this mean the lawyer, who has an absolute advantage in both typing and "lawyer" tasks, should spend her time doing basic

riouut	Real-world	ilities Frontiers and Trade-offs
Recell	w	situation in which ants the sources available to fulfill
		scale "farmer" by ogotable garden
What will y	ou plant?	GARDEN
		's assume only 2 will be planted
	Sav	

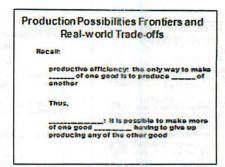


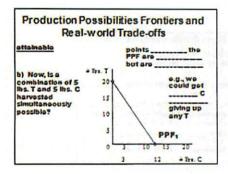


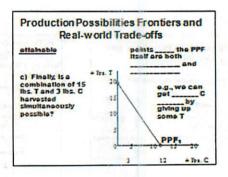


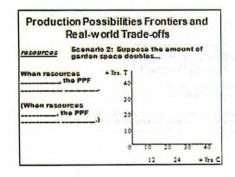
P	roduction Possibilities Frontiers and Real-world Trade-offs
	PPF: Production possibilities
	A curve showing all thecombinations of products that may be produced with and

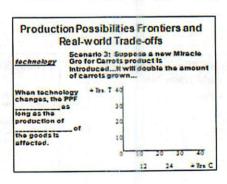
#### 











#### Production Possibilities Frontiers and Real-world Trade-offs

opportunity cost: the \_\_\_\_\_ when choosing a particular activity

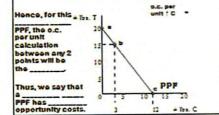
\_\_\_\_between what b and what is \_\_\_\_\_ PPF

o.c. per unit will always be calculated as

Production Possibilities Frontiers and Real-world Trade-offs Consider moving from point a to point b... o.c. per unit | C = 204 e PPF 15 10

#### Production Possibilities Frontiers and Real-world Trade-offs

Consider moving from point it to point c...



#### Production Possibilities Frontiers and Real-world Trade-offs

Now, consider 2 different products:

apples and oranges...

Which state in the U.S. is known for growing apples?

Which state in the U.S. is known for growing oranges?

#### Production Possibilities Frontiers and Real-world Trade-offs

## Consider moving from...point a to point b... point b to point c... point c to point d... point d to point d... 23 - 1023 O

#### Production Possibilities Frontiers and Real-world Trade-offs

point a to point b...

o.c. per unit ; 0

point b to point c...

o.c. per unit † 0

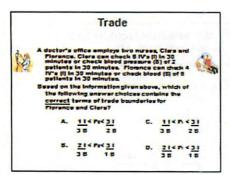
point c to point d...

o.c. per unit † 0

point d to point e...

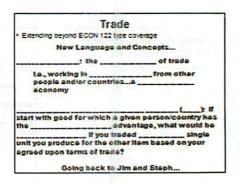
o.c. per unit † 0

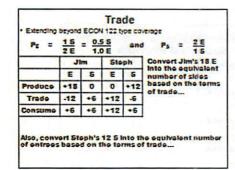
ECON 345--Abs. Adv./Comparative Adv/Gains from Trade Review

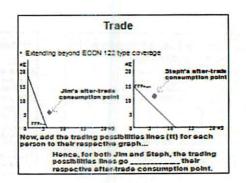


	Trade
	Man Practice
· Assume	Country 1 can produce wheat, with a constant apportunity tone of coffee for every 1 tax of wheat it produces. I will not come to the incip shout the act, per unit of "the productive of cellent" is 5 how the PFF for full country, assuming the mixingers account of coffee it can produce wheat, with a countries apportunity taxe of coffee it can produce wheat, with a countries apportunity taxe of coffee for every 1 tax of wheat it produces. I will have a produce whose the force per unit of of the coffee it can produce whose it is not considered to the complete it of the mixing of the produce to the complete it of the mixing of the produce of the complete it of the mixing of the produce of the

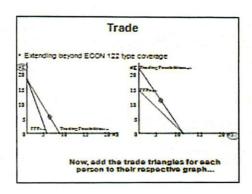
Tra • Extending beyond ECON 122	ade type coverage
New Language fo	r the Same Ideas
PPF: also can be referred possibilities schedule	
	es move along production of the other good
o.c. per unit calculation:	rate of
	amount of one product a to get one unit of the other product







49



Trade  Equilibrium Terms-of-Trade Limits				
Jim	Stephanie			
o.c. per = 3E unit : 5 = 15	o.c. per = 5E = 1.25E unit : 5 45 = 1.05			
SE < P <sub>3</sub> < 3E 45 15 All of these steps already have been covered Now, we take eachfor the same good, here and draw a new line with the MRT'sslope starting at the				

Trade

Proctice Problem SoMno

Complete the following Ricardian Model questions #1-2.

Assume constant opportunity cost.

Delta: can produce at most 400,000 pounds of lamons OR of most 300,000 pounds of oranges

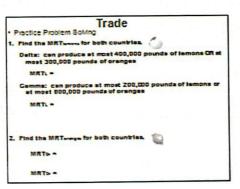
Camma: can produce at most 200,000 pounds of lamons or at most 500,000 pounds of oranges

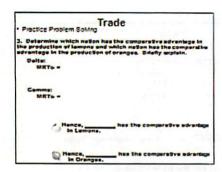
1. Find the MRTunes for both countries.

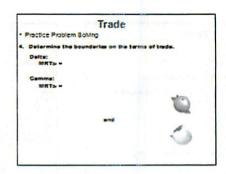
2. Find the MRTunes for both countries.

3. Determine which nation has the comparative seventage in the production of lamons and which nation has the comparative seventage in the production of parages. Eithig spitals.

4. Determine the boundaries on the terms of trade.







Protice Problem Soung

Complete the following Rearden Model questions #1-2.

Assume constant opportunity cost.

Now, suppose the price of lemons is 2.3 pounds of oranges per 1 pound of lemons. Purities, suppose that Date offers to trade 100,000 pounds of lemons.

3. How many pounds of oranges will be expected in return for 100,000 pounds of lemons?

8. Show the site-strade consumption table for both countries.

7. Explicitly show gains from trade for both countries by plotting the original FPPs and the effective consumption points for each country (1 supsh for each country);

8. Depict the trade triangles for each country in your graphs...be sure to include the Trading Possibilities line.

9. Draw the soullibrium terms-of-trade limits graph for first.

Procee Problem Solving

5. How many pounds of oranges will be expected in return for 100,000 pounds of temons?

Plow, suppose the pice of temons is 2.3 pounds of oranges per 1 pound of temons. Further, suppose that Datte others to trade 100,000 pounds of temons.)

Trade
Practice Problem Solving

S. Show the after-frede consumption table for both countries.

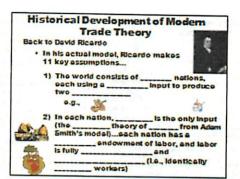
Proceet Problem SoMing

7. Explicitly show gains from inside for both countries by plotting the original FPTs and the after-bade consumption points for each country (1 graph for each country).

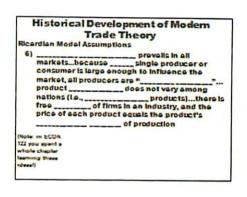
8. Depict the trade triangles for each country in your graphs...be sure to include the Trading Peesbittles line.

ECON 345--Abs . Adv./Comparative Adv./Gains from Trade Review





	Historical Development of Modern	1
	Trade Theory	
Rica 3)	andlen Model Assumptions ) Labor can freely among industries a nation but is incapable of moving	
-	nations (Le., no allowed)	
T.	The level of is fixed for both nationsdifferent may use different technologies, but all firms within the nation utilize a production me!  for each commodity	nt
	Ocsts vary with the level of produced and are to the amount of is used (say, pay each worker \$1_then if hire of workers, pay total for labor costs; if hire workers, pay total for labor costs, etc.	bor 1



-	Historical Development of Modern Trade Theory
Rica	rdian Model Assumptions
7)	trade occurs between nations; that is, government to trade exist
8)	Transportation costs are
9)	Firms make production decisions in an attempt to consumers satisfaction (

nistone	cal Development of Modern Trade Theory
Ricardian Mod	fel Assumptions
choices decision	no money that is, when or make their consumption and firms make their production s, they take into account the s of all

	The state of the s	
Historical Development of Modern Trade Theory	Historical Development of Modern Trade Theory Theory of Reciprocal Demand It 2 nations of approximately the same	
Within the limits of the terms of trade, the terms of trade are determined by the relative of each country's for the other country's product  If 2 nations of approximately the same and with patterns participate h international trade, the gains from trade will be shared about between them	have patterns, then for the country more patterns, then for the country more for a product, the term of trade will be favorable since with greater demand in this country should expect price  If one nation is significantly than the other, the larger nation attains gains from trade while the smaller nation attain of the gains from trade  In the graph, actual terms of trade is very to the large nation's cost-ratio line  "Importance of being "	