

**THE UNIVERSITY OF WESTERN ONTARIO**  
**DEPARTMENT OF ECONOMICS**  
**Economics 4400E-001**  
**Senior Research Seminar in Economics, 2009-2010**  
<http://economics.uwo.ca/undergraduate/4400E001/>

**Course Outline**

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**I. Who?**

Economics 4400 is a two-semester course for fourth year students in Economics Honors programs. The “course team” consists of three faculty members (the “faculty team”), a TA, and support staff in the Department and Library. Although the faculty team is formally responsible for the course, students are expected to seek help from other faculty members with expertise related to their research topics.

**The 4400 Course Team**

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Teaching Assistant

**Nick Bedard**  
 SSC 4060  
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Reference Centre

**Jane McAndrew & Jennifer Hope**  
 SSC 4021  
 Phone: 661-2111 x 85228  
 Email: [econref@uwo.ca](mailto:econref@uwo.ca)

Data Resources Library

**Vince Gray & Liz Hill**  
 SSC 1004A  
 Phone: 661-2111 x 85044  
 Email: [vince@uwo.ca](mailto:vince@uwo.ca), [ethill@uwo.ca](mailto:ethill@uwo.ca)

Weldon Library

**Bruce Fyfe**  
 WL M1J  
 Phone: 661-2111 x 84818  
 Email: [bfyfe@uwo.ca](mailto:bfyfe@uwo.ca)

## II. What and Why?

### *Course Description*

The aim of this course is to help you develop the skills and techniques needed to carry out an original research project. You will acquire these skills through learning by doing. During the course of the year you will write a substantial, original research paper on a topic chosen and researched by you in consultation with the faculty team. Subject to the approval of and in consultation with the faculty, you may select any topic you find interesting, choose your approach and methodology, and work solo or with a partner.

During this year you will be required to submit several written assignments in addition to the final research paper. You are also required to present your research to the class and to discuss in writing and orally the research paper of a classmate. More information on the course requirements appears below.

The course team will endeavour to help you with all aspects of the project. We will provide class presentations, hands-on demos, and informal consultation and feedback throughout the year. A variety of useful and important information is available on the course website.

While we will provide support, this is *your* research project. It is up to you to take charge, set your directions, and carry the project through to completion. Your success will depend on the initiative, resourcefulness, effort and skill that you devote to your project.

Research is a collective endeavour. We encourage you to interact formally and informally with your classmates so as to generate positive externalities and form a community of scholars (see Student Choice Award below).

### *Course Structure*

Research involves the following steps: finding a topic, reviewing the literature, developing a research strategy, accessing appropriate data (if the project has an empirical dimension), writing a first draft, and then revising the draft and preparing the final research paper. Young scholars benefit from following this sequence systematically; therefore, we have structured the course to offer guidance and support in each of these stages.

All students in the course must submit all assignments and meet all deadlines. All students are required to consult with the faculty team about their research progress and to keep the faculty team informed of their activities. To facilitate communication with the faculty team, each student will be assigned one faculty member who is his or her primary supervisor. You will be expected to take the initiative to communicate with your supervisor on a regular basis (we suggest at least every two weeks). Supervisors will be assigned after submission of the topic proposal.

Within these parameters, you have considerable flexibility to follow your interests and take your own approach.

## ***Requirements and Assessment***

The formal requirements of EC 4400 are:

- to submit six written assignments (the topic proposal, the literature survey & work plan, two progress reports, the draft paper, and the final paper—**see below for descriptions and due dates of the assignments**)
- to consult with and keep in touch with the faculty team and your supervisor
- to make presentations of your work to the class
- to act as a discussant of the work of others
- to attend and participate in class meetings

The course mark will be calculated as follows:

5%	topic proposal and its presentation
15%	literature survey and work plan
0%	progress reports (not marked, but required)
20%	draft paper
10%	presentation of the draft paper
10%	discussion of another student's draft paper (verbal and written reports)
40%	final paper

If you choose to work with a **partner**, you and your co-author will receive the same marks on everything \*except\* the mark for discussion of another student's paper. As a discussant you will be acting on your own and receive an individual mark.

N.B. All marks will be on a scale of 1-100.

## ***Criteria for Marking***

The criteria for setting marks will depend on the assignment, but here are some general criteria:

- clarity of exposition
- well-organized, logical argument
- familiarity with the literature on your topic, and ability to explain why your topic/research is interesting in the context of what has been done in the literature
- for written assignments, writing style matters. Points will be deducted if
  - there are significant and persistent mistakes in grammar and spelling
  - information and ideas drawn from the literature or others is not properly cited
  - references are incomplete or do not follow an accepted, consistent bibliographic format (see the Essay Guidelines)

### *Late Penalties*

Due dates for the assignments are shown in the timetable below. Grade penalties (out of 100) for late submissions will be as follows:

1-24 hours late	-10 points
24-48 hours late	-30 points
48-72 hours late	-50 points
>72 hours late	no credit

### **III. When and Where?**

#### *Classroom and meeting times:*

The scheduled class times are **Tues. 4:30-5:30** and **Thurs. 4:30-6:30** in **MC 17**.

The timetable below shows the dates and times of class meetings. The class will meet many but not all of the scheduled class times. You should keep all scheduled T, Th class times open and available even if no class meeting is listed on that date, in case we need to add a class session.

The classroom has been booked for the entire academic year in the Tu, Th class times. When there is no class meeting, you can use our classroom during the class times to organize discussion groups, consult with classmates, and practise presentations.

#### *Course Timetable*

Please make a note of all class meeting dates and times in the timetable below. Unless stated otherwise, all class meetings are in **MC 17**. Deadlines and due dates are in **bold** type.

Class meetings will be on an as need basis depending on the number of "how to" sessions and meetings required for presentations and discussion of student work. To provide sufficient time for student presentations, some sessions may extend beyond the scheduled class times and some extra meeting times may be required.

Attendance is *strongly* recommended at *all* sessions and is *mandatory* for those sessions in which you are presenting or acting as a discussant.

#### **Fall term:**

- Sept 10 (Th) First day of class—distribution of course materials
- Sept 15 (Tu) Introductions; Discussion of course content and requirements
- Sept 17 (Th) Discussion of course content and requirements, cont.
- Sept 22 (Tu) How to Find a Topic (*Meet & Greet at the Grad Club after class*)
- Sept 24 (Th) How the Economics Reference Centre Can Help YOU—Jane McAndrew & Jennifer Hope;  
Advice from a Former Ec4400E Student—Nick Bedard
- Sept 29 (Tu) What Does an Ec4400E Paper Look Like? [See readings posted on course website.]

- Oct 1 (Th) Finding Economic Sources/Literature for Your Research [SSC 1000]—Bruce Fyfe
- Oct 6 (Tu) Do's and Don't's of Data—Vince Gray;**  
**Last date for notifying about partnerships.** *By email to the TA by 4:00 pm (nbedard@uwo.ca).*
- Oct 8 (Th) Download Some Data [SSC 1000] —Vince Gray
- Oct 13 (Tu) Topic Proposal Due.** *Bring three hard copies to SSC 4075 and email a copy to the TA by 4:00 pm. Please put your name(s) and student number(s) on the title page. Check the course website for your presentation date.*
- Oct 15 (Th) Presentation of topic proposals, Group I
- Oct 20 (Tu) Presentation of topic proposals, Group II
- Oct 22 (Th) Presentation of topic proposals, Group III (if needed)
- Oct 27 (Tu) Presentation of topic proposals, Group IV (if needed)
- Oct 29 (Th) Using STATA for Research: Introduction [SSC 1000]—Nick Bedard
- Nov 3 (Tu) Tips on Writing a Literature Survey
- Nov 5-18 No class meetings scheduled. Work on your lit surveys, keep in touch with your supervisor and the faculty team; check course website for updates
- Nov 19 (Th) Literature Survey and Research Plan Due.** *Bring three hard copies to SSC 4075 and email a copy to the TA by 4:00 pm. Please put your name(s) and student number(s) on the title page.*
- Nov 19-Dec No class meetings scheduled. Work on your research; keep in touch with your supervisor and the faculty team; check course website for updates.

**Winter term:**

*(Monday, Jan. 4 is the first day of classes)*

- Jan 7 (Th) Progress Report #1 due.** *Email a copy to your faculty supervisor by 4:00 pm. Please put your name(s) and student number(s) on the title page. Last day for formation of new partnerships and submission of new proposals.*
- Jan 14 (Th) Using STATA for Research: Econometric Applications [SSC 1000]—Nick Bedard
- Jan 21 (Th) Additional Lab session for STATA, Graphs, Tables, etc., if needed [SSC 1000]—Nick Bedard
- Jan 28 (Th) Progress Report #2 Due.** *Bring three hard copies to SSC 4075 and email a copy to the TA by 4:00 pm. Please put your name(s) and student number(s) on the title page.*
- Feb 2 (Tu) Progress Report Meetings (4:30 - 6:30 p.m.)
- Feb 4 (Th) Progress Report Meetings

*To schedule in January/February:*

- Research and writing tips—if needed
- Tips on giving presentations and being a discussant, if needed
- Tips on writing, paper format, citations/references, if needed

*(Feb. 15-19 is Conference Week)*

**Feb 25 (Th) Draft Paper Due.** *Bring three hard copies to SSC 4075 and email a copy to the TA and to your assigned discussant by 4:00 pm. Please put your name(s) and student number(s) on the title page. Check the course website for the dates of the presentation of your draft and oral discussant remarks.*

Mar 2 Presentation of paper and discussion: Session I (4:30-7:30 pm)

Mar 4 Presentation of paper and discussion: Session II (4:30-7:30 pm)

Mar 9 Presentation of paper and discussion: Session III (4:30-7:30 pm)

Mar 11 Presentation of paper and discussion: Session IV (4:30-7:30 pm)

**Apr 6 Final Paper Due.** *Bring three hard copies to SSC 4075 and email a copy to the TA by 4:00 pm. Please put your name(s), student number(s), and a 100-150 word abstract on the title page.*

*(Last day of classes is Friday, April 9)*

## **IV. How? Assignments/Steps to Complete Your Research Project**

Carrying out a research project involves a series of steps. The assignments for this course are designed to take you through these steps in a systematic way.

### ***The Topic Proposal and Presentation (due Oct. 13)***

This should be a 2-3 page (500-750 words) proposal describing the topic on which you wish to work. In it you must:

- Cite at least 3 published or unpublished academic research papers related to your topic
- List the names of two professors in the Economics Dept. with whom you have discussed the topic (at least one of them should be on the faculty team)
- Provide a preliminary assessment of data availability and/or the nature of the economic model or framework that you will employ (i.e., you must have started looking for data and/or an analytical framework)

All students will give a short presentation of their topic proposal to the class (see course timetable).

The main aim of this assignment is to ensure you find a research topic before it is too late, share your topic with the class, and solicit suggestions from the faculty and your fellow students.

***The Literature Survey and Research Plan (due Nov. 19)***

This is a paper in which you will discuss how you plan to carry out your proposed research based on a careful, systematic survey of relevant literature. The suggested length is 10 pages (2000-3000 words). It should be written as a complete paper with an introduction that motivates the topic and a conclusion. This assignment is not meant to be part of your final paper, but it will inform your research and you will probably draw upon it in your final paper.

This assignment is NOT supposed to be an annotated bibliography or sequential discussion of articles and books on your topic. Rather, it should discuss how your proposed research is related to and motivated by what has been done by others in the literature. It should organize and discuss in a logical fashion the ideas, methods, and findings of existing work related to your topic. It should explain how the literature informs your research, how your research will build upon the literature, and what is new or different about what you plan to do.

In marking the literature survey and research plan, the faculty team will look at the thoroughness of your literature search; points will be deducted if you overlook significant articles or books that are strongly and directly related to your line of research. Your mark will also depend on how well you articulate the contributions of existing papers, and how your work fits into this broader area of research.

***Progress Report #1: (due Jan. 7)***

The first progress report is due in early January. It should be a 2-page written report explaining progress to date since submitting the literature survey. You should submit this report to your supervisor, with whom you will then meet to discuss your progress. You are encouraged to meet with other faculty members in the Department or elsewhere who have knowledge on your topic.

The main purpose of the progress report is to facilitate consultation and feedback, and to provide an opportunity for you to bring questions to and receive guidance from the faculty team.

***Progress Report #2: The Data Report or Theoretical Modelling Report (due Jan. 28)***

The Data Report or Theoretical Modelling Report is a 2-page written report that provides important information to the faculty and will inform your discussions with the faculty at the Progress Report Meetings.

Students writing papers with an empirical component are required to turn in a Data Report. The Data Report should contain the following information: (a) a brief description of the data that you are using (source of the data, how the data were collected, sampling methods, number of observations, years covered, and so on); (b) definitions of the variables that you expect to use in your analysis; and (c) a table with descriptive statistics (means, minima, maxima, standard deviations, numbers of missing values, number of observations) for the variables that you expect to use in your analysis.

Students writing a theoretical paper with no or little empirical analysis will write a Theoretical Modelling Report that outlines their modelling approach and strategy.

After submission of the progress reports, the faculty team will hold individual meetings with all students. Students will report orally on their progress and can raise questions and receive

feedback. Although students are expected to be in regular contact with their supervisors and the faculty team, the progress report meetings, roughly a month before the draft papers are due, will provide a one-on-one opportunity to apprise us of your progress to date and to discuss any remaining problems and concerns.

### ***The Draft (due Feb. 25)***

The first draft of your research paper should be approximately 3000-5000 words. It should present and motivate your topic, explain your analytical framework or model, relate your approach to the literature, describe the data, and present your initial analysis of the data (if empirical) or initial theoretical results (if a theory paper). It should contain an introduction. Since your work is still in progress, instead of a standard conclusion at the end of the draft paper you should discuss remaining steps.

In marking the draft paper, the faculty team will not expect a perfect, finished product. We will, however look for evidence that you have made substantial progress and are within sight of a completed final paper. The mark will be based on: good motivation of the topic, a well developed analytical framework/model and/or empirical methodology, a solid discussion of how the work fits into the literature, evidence of familiarity with the data and an appreciation of the strengths and weaknesses of the data, use of appropriate empirical methods or analytical techniques, a clear presentation of initial results, discussion of the results that reflects an understanding of the strengths and weaknesses of the methods and data, and a discussion of next steps. The faculty team will not deduct points for grammar/spelling/formatting in the draft, but will note problems in these areas that should be corrected in the final paper.

Draft papers will be posted on the course website so that everyone can read them and exchange ideas.

To ensure a coherent draft research paper by late February, you must make substantial progress on your research project during December and January. **DO NOT WAIT UNTIL FEBRUARY** to get going on your research!

### ***Presentation and Discussion of the Draft (early March)***

Students will present a 15 minute synopsis of their draft paper to the class, followed by oral comments from a discussant (5 minutes). If a paper is co-authored, both students must participate equally in the presentation. For example, one might present the intro and the model, while the other presents the empirical work and findings.

Each student will be assigned as a discussant for another paper. As discussant, each student must give an oral presentation and submit a 2-3 page discussant's report, due within one week of the class in which the paper was discussed. Presentations and discussion of the draft papers will provide extremely useful feedback to help you in the revision of your draft paper.

Please see Section VI below for further info on presentations and discussant reports.

### ***The Final Paper (due Apr. 6)***

The final paper will be a revised version of the draft paper and contain the final results of the research that you have undertaken for this course. The final paper should be organized as

follows: introduction, relevance to past studies in the literature, your model/estimation techniques, description of the data and empirical approach or methods (for empirical papers) or of theoretical approach and analysis (for theory papers), presentation and discussion of findings, and conclusion. The introduction should motivate the paper, give a clear statement of the focus of the paper, explain what you have done that is new and different, and outline the approach to be followed. Not everything in your literature survey should make it into the final paper, but you should include at least 2-3 pages that explain how your analysis relates to and is motivated by the literature.

The final paper should have a title page that contains a 100-120 word abstract that summarizes the highlights of your paper.

In marking the final paper, the faculty team will expect a finished product with correct grammar, spelling, citations, and bibliographic formatting. Otherwise, the criteria mentioned for the draft paper will apply. In terms of substance, the mark on the final paper will be based on an assessment of the combination of inventiveness, creativity, originality, soundness of approach, exposition, and effort. Students who aim high and tackle a hard but do-able topic will not be penalized if, due to the difficulty of the topic, the analysis and methodology are imperfect. In the case of easier or safe topics, the faculty team will be less forgiving of weak or imperfect analysis.

## V. Everything Else You Always Wanted to Know...

### *Writing Do's and Don'ts*

Instructions on how to write an essay and of writing do's and don'ts is given in the **Guidelines for Essay Courses** attached to this handout and posted on the course website. The **Guidelines** contain links to writing resources and assistance, information on how to cite sources, information on essay formats and styles, etc. **READ IT!**

**Plagiarism:** The work you do for this course should reflect your own work and should properly cite and reference all sources. Any instances of plagiarism will be **severely** penalized. You should know what PLAGIARISM is and do NOT do it! For more information on plagiarism, see the Guidelines for Essay Courses. If you are unsure about what constitutes plagiarism, please do not hesitate to ask the Course Team.

### *Presentations—Audio Visuals*

Students are welcome to use overhead transparencies, PowerPoint, PDF files, etc. The classroom is equipped with AV equipment.

The Department has its own computer projection equipment that can be reserved for this course. It is available for presentations as well as practice sessions. If you wish to borrow this equipment, please check with the Undergraduate Coordinator Jeremy Chambers ([jchamb@uwo.ca](mailto:jchamb@uwo.ca)).

### *Discussants*

The role of the discussants is to provide constructive comments that will help the authors of the paper improve their paper. The discussant may be able to suggest other viewpoints from which to

approach the subject. Any errors and omissions in the paper can also be pointed out in a constructive way.

The model for a written discussant's report is the referee report solicited by journal editors on papers submitted for publication. Copies of some good referees' reports are available in the Economics Reference Centre. For other examples, you may wish to refer to journals that publish discussant comments to some of their articles, such as the *Brookings Papers on Economic Activity* (both Microeconomics and Macroeconomics), the *Journal of Economic Perspectives*, *Economic Policy*, and *NBER Macroeconomics Annual*.

### ***Statistical Software***

Students who undertake projects involving empirical work are free to use whatever statistical software they prefer. **STATA** is the **recommended software package** because the course team is most familiar with it, it is well suited to research topics usually undertaken by students in EC 4400, and it is available on the SSC network.

An introduction to using STATA on the SSC network can be found at <http://ssnds.uwo.ca/helpnotes/stata.asp>.

Print copies of the full set of STATA manuals are on 3-day reserve at Weldon Library and can also be borrowed from the Economics Reference Centre (SSC 4021) or the Data Resources Library (SSC 1004). The Reference Centre and Data Resources Library also have other useful STATA books and documentation, e.g., *Statistics with STATA*. Also, some documentation is available online from STATA through the HELP command.

Please note: as of late August, STATA version 10 is up on the SSC network. STATA has recently released STATA 11. The old and new programs have a great deal of overlap, but there are some differences.

### ***Material from Previous Years***

Papers and literature surveys written by Economics 4400E students in past years can be borrowed from the Reference Centre. Selected papers will also be available as pdf files on the Course Website. This material should be used for strictly legitimate academic purposes, mainly to get an idea of the standards expected and the variety of approaches used in recent years. Any instances of plagiarism will be **severely** penalized. For more information, see the Guidelines for Essay Courses attached to this handout.

### ***Helpful Materials from Weldon***

Weldon Library maintains special web pages for students in Economics and for Economics 4400E. These are full of *extremely* useful information and links. Check them out:

- <http://www.lib.uwo.ca/programs/economics>
- [http://www.lib.uwo.ca/files/weldon/economics/ECO4400E\\_Economic\\_Policy.pdf](http://www.lib.uwo.ca/files/weldon/economics/ECO4400E_Economic_Policy.pdf)

### ***Awards & Prizes for EC 4400 Students***

Two awards are given each year to students in Economics 4400. The award winners receive a book prize, not to mention eternal glory *plus* an invitation to a special awards ceremony at graduation (a great way to impress your friends and family).

**Mark K. Inman Senior Essay Prize:** Awarded to the author(s) of the final paper that is judged to be the best in Economics 4400E. It is given in memory of Dr. Mark K. Inman, who was one of the founding members of the Department of Economics in 1929 and head of the Department from 1939-1962.

**Student Choice Award:** Awarded to a full-time student in fourth year of an Honors BA and enrolled in an Honors Specialization module in the Department of Economics at main campus, who is also enrolled in Economics 4400E. The student who is recognized as making the greatest contribution in Economics 4400E and is most helpful to other students in the course will be selected as the recipient. Students enrolled in Economics 4400E will nominate candidates and will also select the winner by secret ballot. In the event of a tie, the Economics 4400E Course Committee will decide the winner. Nomination forms are available from the Department of Economics and must be submitted by March 15.

## **VI. Reference Centre Guide**

1. Where are we located?
2. What do we have in the Centre?
3. What are our hours of service?
4. How to sign out material from the Centre.
5. When looking for information.....
6. A few basic rules.

### **1. Where are we located?**

The Economics Reference Centre is located within the Department in S.S.C. Room 4021.

### **2. What do we have in the Centre?**

The Centre is a resource for the faculty, graduate students and senior undergraduates of the Department of Economics. It houses an array of major Economics journals, Economics working papers and bank reviews. As well, there is a growing collection of core books, textbooks, Departmental theses and computer manuals. Of particular interest to 4400 students are past 4400 theses, Stata manuals, and research/writing guides. The Reference Centre's website at <http://economics.uwo.ca/econref/> provides a description of the Centre's holdings and procedures.

### **3. What are our hours of service?**

As a general rule, the Centre is open from 8:30 am to 4:30 pm on weekdays. We are closed on weekends. Extended evening hours are provided during the fall and winter terms as staffing allows. You will be notified by e-mail of any general changes in Centre hours.

## **Economics 4400 students with questions are restricted to the following hours:**

### **During the day:**

Monday – Thursday 11:00 am – 4:00 pm as time allows, or by appointment with Reference Centre staff members **Jennifer Hope** ([jghope@uwo.ca](mailto:jghope@uwo.ca)) or **Jane McAndrew** ([econref@uwo.ca](mailto:econref@uwo.ca)). They can help you with library reference questions.

### **During the evening:**

The Economics 4400 T.A will hold office hours in the Reference Centre: times to be announced shortly. He/she can help you with economics and Stata questions pertinent to your projects.

## **4. How to sign out material from the Centre:**

Please ask a Reference Centre staff member for assistance the first time you want to sign something out. We are working with a manual circulation system – your assistance in the accurate completion of legible sign-out slips is much appreciated.

## **5. When looking for information...**

### **General Research Hints**

- Talk to your Faculty Team.
- Talk to your T.A.
- Talk to Reference Centre staff.
- Consult with Vince Gray in the Data Resources Library (DRL) about where to obtain reputable data for your projects. DRL is located within the Social Science Network and Data Services (SSNDS) in S.S.C. Room 1004.
- There are many sources of information at Weldon that are not apparent from casual use. Pay particular attention to the Government Publications section as a potential source of statistical information. Bruce Fyfe is Western Libraries' Economics and Government Publications librarian.

### **Economic Literature**

- Familiarize yourself with the use of **EconLit**. Performing a subject search in EconLit will provide you with a large base of citations from which to work. Further, such a search can indicate to you how much work has been done on your topic. Access EconLit from the Western Libraries website at <http://www.lib.uwo.ca>. Select **Databases by Title** (under the *Search Articles, Journals and Databases* box), then navigate to EconLit; or simply search 'Econlit' using the *Search Catalogue* box. Most of the works cited can be found in either the Economics Reference Centre or the UWO Library System print and/or electronic collections. **NOTE:** EconLit does not provide you with the full-text of the works cited; however, it does provide links to the UWO library catalogue from which online items can be downloaded, if available.
- Familiarize yourself with the **Economics Reference Centre Catalogue** at <http://janus.ssc.uwo.ca/econref/pubsearch.html> As well as our book, manual and thesis collection, the Centre has a large number of working papers from academic and economic institutions worldwide. Journal titles and journal articles do not appear in the catalogue.

- Familiarize yourself with the **UWO Library System's catalogue** located at <http://www.lib.uwo.ca> . Where available, there are links from the Library Catalogue to electronic resources. For access to UWO's electronic resources from home, log in to **Off-Campus Access** before you begin your search.
- Material not available from the UWO Library System can usually be obtained through interlibrary loan. The **RACER** online interlibrary loan system allows you to make interlibrary loan requests electronically. For details, see <http://www.lib.uwo.ca/ill>.
- The UWO Library System has a large number of very good electronic resources. See <http://www.lib.uwo.ca> . Select **Databases by Title** (under the *Search Articles, Journals and Databases* box). Some useful links included in this area are: AccessUN, Direction of Trade Statistics, EconLit, Global Development Finance, JSTOR, LexisNexis, ProQuest ABI/INFORM, SourceOECD, Web of Science, World Development Indicators, and World Bank e-Library.
- The **Links** on Reference Centre's website is an excellent source of online Economic literature. Check the Publications area for an extensive list of resources, then take a look at the other sections as well. <http://economics.uwo.ca/econref/links.asp#publications> .
- Current research in Economics at UWO can be found in **Faculty Publications** at <http://economics.uwo.ca/econref/WorkingPapers/facultypublications.asp> . The **Research Reports and Working Papers** can be downloaded. For Working Papers from other institutions, see our **Archive of Working Papers Worldwide** (currently being updated) at <http://economics.uwo.ca/econref/WorkingPapers/worldarchives/index.html> .

### Statistical Material and Other Online Resources

- Visit **Data Sources** on the Reference Centre website at: <http://economics.uwo.ca/econref/links.asp#datasources> for data sets available on the World Wide Web.
- Look at the **Bibliographic and Full-text Databases** section located on SSND's website at <http://ssnds.uwo.ca/bibliodatabases.html>. There are links here to CANSIM, Direction of Trade Statistics and International Financial Statistics.
- Visit the **Equinox Data Delivery System** at <http://equinox.uwo.ca> . This is an extremely useful resource.
- Visit **World Bank Online Resources** – see the UWO Library System website at <http://www.lib.uwo.ca/>. Select **Databases by Title** and in particular see **World Development Indicators (WDI Online)**, **Global Development Finance (GDF Online)** and the **World Bank e-Library**. This is great stuff!
- Look at the **International Monetary Fund's Online Resources** – see the UWO Library System website at <http://www.lib.uwo.ca/>. Select **Databases by Title** and go to **Direction of Trade Statistics and International Financial Statistics (IFS)**.

- Visit **SourceOECD** – see the UWO Library System website at <http://www.lib.uwo.ca>. Select **Databases by Title** – select **SourceOECD**.
- Visit **OFFSTATS – Official Statistics on the Web** at <http://www.offstats.auckland.ac.nz/> .
- Talk to a Weldon Reference person if finding data is still a problem. Government Publications still provide a rich source of statistical information in hard copy.
- Check **Bruce Fyfe's** Economics page at <http://www.lib.uwo.ca/programs/economics/> for his round-up of Economics resources at UWO and on the web, including his own **Economics Research and Support Blog**.
- Spend some time exploring the **Reference Centre's Links** <http://economics.uwo.ca/econref/links.asp> . It is a comprehensive, annotated listing of useful and interesting sites that is always being updated. For example, check **Vox** <http://www.voxeu.org/> , a new site featuring commentary on a wide range of topical subjects by leading economists.

## 6. A Few Basic Rules

- Please respect the Economics Reference Centre collections.
- Please restrict your questions and requests for Economics 4400 Reserve Readings to the hours listed above.
- Be aware that Undergraduates may be asked to borrow certain items from the UWO Library system instead of from the Reference Centre (e.g. books on reserve for Graduate courses).
- Materials borrowed from the Centre must be returned promptly and are subject to recall.
- **All materials borrowed from the Centre must be returned immediately after your final paper has been submitted. Failure to do so will result in the withholding of your final grade.**

## VII. Do's and Don'ts of Data

### Do:

- Start early; already is not too soon
- Have a firm idea of what you want to do
- After choosing a topic, ensure that data are available in the format and at the level that you need
- Recognize that confidentiality restrictions may restrict access to variables that you want to use
- Be prepared to have to pay for data if it is coming from outside the university
- Visit the Data Resources Library if you need assistance in locating data
- Visit the Data Resources Library earlier rather than later in the process
- Try to have your topic firmed up and the necessary data lined up and ready to use by the Christmas break – it will make your second term much happier and less stressful
- Check variable definitions and coding: e.g., what is “full-time work”
- Be prepared to change your topic if data are not available
- Be prepared for delays in obtaining data: if data are to be released by Statistics Canada in January, they might not come out until July
- Expect delays in getting data loaded into Equinox: it's not a five-second procedure to load a file – **LET US KNOW EARLY if you need data**

### Don't:

- Put off finding your topic
- Find a paper dealing with one country, and expect to be able to replicate it with data from another country (e.g., Canada)
- Expect that you will have the same access to data as other authors: they may have personal ties to the organizations providing them with access to the data
- Assume that the data will be available
- Expect definitive data. Data concerning politically sensitive topics (e.g., softwood lumber) may be tinged by the political slant of the organization releasing the data, or may be suppressed
- Expect that the Data Resources Library will be able to drop what it's doing and service your requirements immediately
- Automatically believe what you find on the web
- Assume that the Data Resources Library has the data and just won't give it to you – if we can get you the data, we will. If we can't, asking us each week won't change the situation.

## Equinox Data Delivery System

URL: <http://equinox.uwo.ca>

### Access to the system

Including Western, many universities across Canada currently use Equinox. Any user at UWO may use the system. Each file within the system is governed by data release agreements that must be adhered to: look at the **Access restrictions** link.

Access to the data stored within the system is controlled by IP address. Remote access to the system is transparent if connecting through the University's dial-in services. If using an outside Internet provider, a proxy server must be configured for use with your browser in order to retrieve most data. Go to the Western Libraries home page (<http://www.lib.uwo.ca>) to use Equinox via Rogers or Sympatico or other Internet service providers.

### **Features of Equinox:**

- The Basic Search box will locate files which match your search criteria, regardless of whether the information is stored in a variable record or a file record.
- Displays a list of variables that pertain directly to the search, organized by the file in which they are found.
- Delivers data in ASCII, tab-delimited format for easy import into a wide range of statistical packages, and provides data set descriptions for SAS, SPSS, and Stata, along with request-specific codebooks.
- Provides access to documentation about specific data files, as provided by the supplier.
- Provides links to other data sources, such as other web sites and databases.

### **How the System Works**

Equinox records information on a number of types of data files. These include raw data files, digital maps, Internet-accessible databases, Excel spreadsheets, and Beyond 20/20 tables. The information within Equinox is stored in an InMagic DBTextworks textbase. This information is accessible to users of the system via InMagic WebPublisher, which allows searching of the database through a web browser.

In the case of maps, Beyond 20/20 files, etc., a link to the file provides either the ability to download the file or to open it within the browser (depending upon the nature of the file). If a raw data file is not fully loaded into Equinox, a link is provided allowing the prospective user to request that the data file be loaded into the system, to provide variable-level access.

Where variable-level access is provided (currently 692 files), the user selects which variables to retrieve from a particular data file. Users supply the system with their e-mail address. When the request for data is submitted, the InMagic database generates a query that is run against a SQL database. In turn, the SQL database delivers the raw data to the user. The user may also request a codebook specific to the variables selected, along with a **Stata**, **SPSS**, and/or **SAS** program file (dataset description) to load the data. The screen is refreshed to provide a link to the file(s), which is compressed using Zip, and a copy of the link is sent by email to the user, along with your PIN for extracting the data.

#### **Contact information:**

Vince Gray Elizabeth Hill  
[vince@uwo.ca](mailto:vince@uwo.ca) [ethill@uwo.ca](mailto:ethill@uwo.ca)

519-661-2111 ext. 85044 519-661-2111 ext.85049

Data Resources Library  
Western Libraries  
Room 1004, SSC

## VIII. Registration and Prerequisites

### Registration

You are responsible for ensuring you are registered in the correct courses. If you are not registered in this course, the Department will not release your marks until your registration is corrected. You may check your timetable by using the Login on the Student Services website at <https://studentservices.uwo.ca/secure/index.cfm>. If you notice a problem, please contact your faculty academic counsellor right away.

### Prerequisite Note

The prerequisite for this course are [Economics 2223A/B](#), [Economics 2261A/B](#), and [Economics 2221A/B](#) ([Economics 2220A/B](#) for students in the Economics, Politics and Philosophy Honors Specialization). Student must be in their 4th year of an Honors Economics Degree. Concurrent enrolment in [Economics 3388A/B](#) is **strongly** recommended.

You are responsible for ensuring that you have successfully completed all course requisites, and that you have not taken an antirequisite course. Lack of prerequisites may not be used as a basis of appeal. If you are found to be ineligible for a course, you may be removed from it at any time and you will receive no adjustment to your fees. This decision cannot be appealed.

If you find that you do not have the course prerequisites, it is in your best interest to drop the course well before the end of the add/drop period. Your prompt attention to this matter will not only help protect your academic record, but also ensure that spaces become available for students who require the course in question for graduation.

## IX. Essay Guidelines

Please read carefully the Department of Economics' essay guidelines, which contain information that will help you with your Ec4400E paper. They are available at:

<http://economics.uwo.ca/undergraduate/templates/essayguidesept09.pdf>.

## Please Note

Remember that the University expects all students to take responsibility for their own academic programs. Also remember to check your registration to make sure you are enrolled in the correct courses.

1. Guidelines and policies for the Faculty of Social Science and the Department of Economics are posted in the glass case near Social Science Room 4071.
2. Students must familiarize themselves with the “Rules of Conduct for Examinations”.
3. **Cheating as an academic offence:** Students are responsible for understanding what it means to “cheat”. The Department of Economics treats cheating incidents very seriously and will investigate any suspect behaviour. Students found guilty will incur penalties that could include a failing grade or being barred from future registration in other economics courses or programs. The University may impose further penalties such as a notation on your official academic transcript, suspension or expulsion.
4. **Plagiarism:** Students must write their essays and assignments in their own words. Whenever students take an idea or a passage from another author, they must acknowledge it by using quotation marks where appropriate and referencing with footnotes or citations. Plagiarism is a major academic offence (see Scholastic Offence Policy in the current UWO Academic Calendar).

The University of Western Ontario uses software to check for plagiarism and students may be required to submit their written work in electronic form. Those found guilty will have penalties imposed as noted in point 3.

5. It is Department of Economics policy that **NO** assignments be dated, stamped or accepted by staff. Students are responsible for submitting assignments in class or to the instructor during office hours.
6. When appealing a mark, students should refer to the Departmental Procedures (<http://economics.uwo.ca/undergraduate/Appeal.pdf>) which is also in the current UWO Academic Calendar. Please note deadlines.

The Department Chair will not consider an appeal unless an attempt has been made to settle the matter first with your instructor. If, after discussion, you remain dissatisfied with a grade, you may proceed with a written appeal (e-mails are not acceptable) to the Department Chair stating reasons.

7. Systematic adjustments of the entire grade distribution can occur either up or down in Economics courses. The fact that grades have been adjusted is **not** a reason to appeal.
8. Note the following add and drop deadlines:

Last day to add a full course or first term half course:	Friday, September 18, 2009
Last day to drop first term half course:	Thursday, October 15, 2009
Last day to drop a full year course:	Monday, November 30, 2009

9. Faculty of Social Science policy states that oversleeping or misreading an exam schedule is not an excuse for a make-up. This rule applies to all mid-term tests and final exams in the Department of Economics.

## Policy Regarding Makeup Tests and Final Examinations

*Academic Accommodation will **not** be granted automatically on request. You **must** demonstrate to your instructor by documentation that there are **compelling** medical or compassionate grounds before academic accommodation will be considered.*

Students who seek a makeup test or examination must provide medical or other relevant verification that their absence from a regularly scheduled test or examination is beyond their control. Students are directed to fill out the Student Medical Certificate found here [https://studentservices.uwo.ca/secure/medical\\_document.pdf](https://studentservices.uwo.ca/secure/medical_document.pdf) If you decide to write a test or an examination, you must be prepared to accept the mark you earn. Rewriting tests or examinations, or having the value of the test or examination reweighted on a retroactive basis, is **not** permitted. Book airline flights after you know the dates of your final examinations. Airline flights must not conflict with test or final exams.

If you are requesting a makeup test or exam, unless medically incapable, notify your instructor by email or phone within **48 hours** of the date of the test or exam. Set up an appointment as soon as possible to meet personally with your instructor and provide documentation regarding the missed test or exam. **Notifying your instructor of a missed test or exam does not automatically entitle you to a makeup test.** Documentation must support your reasons. Failure to follow this procedure, or to provide supporting documentation, may result in denial of a request for academic accommodation or result in a grade of zero.

**Midterm Tests:** Documentation should be given to your instructor **prior** to the scheduled date of the test if at all possible. If the instructor is not available, you may leave a message with the Undergraduate Office (Social Science Room 4075). If your documentation is not acceptable, you will be given a zero for the missed test.

**Final Examinations:** Documentation should be given to the Academic Counselling Office of your *home* Faculty **as soon as possible (preferably within 48 hours)** if you know you may not be able to write your final examination on the scheduled day and time. Until you receive permission from your *home* Faculty Counsellor, your instructor, and the Department Chair, you will not be allowed to write a makeup examination. Failure to follow this procedure may result in an examination grade of zero.

**NOTE** – Even if approved from your *home* faculty Academic Counsellor, your instructor or Department Chair can deny your request if s/he does not agree that your reason for missing the examination is valid. Make-up final examinations, if permitted, will be written within one month of the end of the exam period.

## Policies Regarding Academic Accommodation

Information about the Faculty of Social Science's policies regarding academic accommodation is found on its website at <http://counselling.ssc.uwo.ca/> (choose "having problems?") or in Social Science Room 2105. Your "Academic Rights and Responsibilities" are also outlined in the current UWO Calendar. Claiming that "you didn't know what to do" is not an acceptable excuse.

## Policy Regarding Class Attendance

If your instructor views your class attendance as unsatisfactory, you can be debarred from writing the final examination. If there is intent to make use of this University policy, you will be warned in writing.

## Guidelines for Essay Courses

### Essay Courses<sup>1</sup>

An essay course is defined as a course in which the cumulative amount of written work, excluding written work in examinations, is normally at least 2,500 words (for a half course).

In order to pass an essay course the student must exhibit some minimal level of competence in essay writing as well as the appropriate level of knowledge of the content of the course.

### English Language Proficiency for Assignment of Grades<sup>2</sup>

Students must demonstrate the ability to write clearly and correctly. Written work on any subject that shows a lack of proficiency in English and is unacceptable for academic credit will be failed or, at the discretion of the instructor, returned to the student for revision to an acceptable literate level.

To foster competence in the use of the English language within their disciplines, *all instructors will take proficiency in English into account in the assignment of grades*. Note that this policy applies to all courses, not only essay courses.

### Recycling of Assignments

Students are prohibited from handing in the same essay or paper for two different courses. This would be considered a scholastic offence and subject to academic penalties, including but not limited to the possibility of zero on that particular assignment.

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<sup>1</sup>From the UWO Academic Handbook. See <http://www.uwo.ca/univsec/handbook/regn/coursenumbering.pdf>.

<sup>2</sup> From the UWO Academic Handbook. See <http://www.uwo.ca/univsec/handbook/exam/english.pdf>.

### Plagiarism

Plagiarism is defined as: "The act or an instance of copying or stealing another's words or ideas and attributing them as one's own."<sup>3</sup>

The concept of plagiarism applies to ALL assignments and their component parts, including essays, reports, diagrams, statistical tables, and computer projects.

Below are examples of some common mistakes that constitute acts of plagiarism. It is plagiarism if you:<sup>4</sup>

- Submit someone else's work as your own
- Buy a paper from a paper mill, website or other source and submit it as your own work
- Copy sentences, phrases, paragraphs, or ideas from someone else's work, published or unpublished, without giving the original author credit
- Replace selected words from a passage and use it as your own without giving the original author credit
- Copy any type of multimedia (graphics, audio, video, internet streams), computer programs, music compositions, graphs, or charts from someone else's work without giving the original author credit

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<sup>3</sup>Excerpted from HC Black, *Black's Law Dictionary*, West Publishing Co., 1999, 7th ed., p. 1170.

<sup>4</sup> From the San José State University Plagiarism Tutorial [<http://tutorials.sjlibrary.org/tutorial/plagiarism/>]

- Piece together phrases, ideas and sentences from a variety of sources to write an essay without giving the original authors credit
- Build on someone else's ideas or phrases to write your paper without giving the original author credit

Plagiarism is a serious scholastic offence. Possible consequences of plagiarism include a mark of 0% on the assignment, a mark of 0% for the entire course, and expulsion from the university.

Purchasing an essay is a form of plagiarism and a very serious offence. The UWO Academic Calendar indicates that the penalty can be as severe as expulsion from the university.

Instructors may require students to submit their written work electronically to <http://www.turnitin.com>. Turnitin.com is a service that assists instructors and students in detecting and avoiding plagiarism.

Students wishing more guidance on how to avoid plagiarism or in doubt about whether their work constitutes plagiarism should consult their instructor. Claiming that you did not know you have plagiarized is not an acceptable excuse.

The key to avoiding plagiarism is to correctly and fully cite references for the sources you use in your work. The next section provides a summary of style guidelines for citing references.

### Referencing and Citation Guidelines

If you use the work or ideas of others in your work, you must acknowledge the contributions of the original authors and provide citations and references to their work. (See plagiarism above.)

The Economics Department has adopted the citation guidelines used in *The Chicago Manual of Style*, 15<sup>th</sup> edition. Chicago: University of Chicago Press, 2006. An Online version is available through the Western Library's homepage <http://www.lib.uwo.ca>. Either search the catalogue by title or go to "Research Resources > Databases by Title > Chicago Manual of Style." For access from off campus, you must use the *OffCampus Access* sign-in on the Library's homepage.

Economics papers typically use the **author-date** style of references. An explanation of the author-date style and detailed examples are available in the *Chicago Manual of Style Online* (for example, see "Tools > Chicago-Style Citation Quick Guide"). The *Chicago Manual* also gives instructions and examples of citations for electronic resources (see, for example, "Documentation II: Specific Content" on pp. 641-754 of the print version or in the Online version).

Below are some examples. In the body of an essay, citations give the last names of the authors of the piece you are referencing, the year of publication, and, where relevant, page numbers. These in-text citations refer the reader to more complete bibliographic references given in a list of references at the end of the essay. If the same authors have more than one publication in the same year, the convention is to add both in the citation and the bibliography lower-case letters behind the year of publication, e.g., 1993a and 1993b.

Examples of in-text citations:

Diamond (1981, 1982) and Mortensen (1982a, 1982b) find these externalities can cause an inefficient level of search activity...

The "new view of unemployment" which emerged during the 1970s emphasized the importance of turnover in the labour force and the brief duration of many employment spells (Hall 1970, 1972; Perry 1972; Marston 1976).

The primary objectives of the LMAS are "1. To provide measures of the dynamic...the Labour Force Survey" (Statistics Canada 1990, 5).

The bibliography or list of references at the end of the essay gives full information about each source cited. In addition to a bibliography, you should also provide adequate referencing of any data sources. This should be done in a data appendix following the text of the paper and before the bibliography.

Examples of the author-date style in a bibliography or list of references for some commonly used materials follow. Notice that when a reference has multiple authors, the format for additional authors is Firstname Lastname.

(i) BOOKS:

Lastname, Firstname. Copyright year. *Title of book*. Place of Publication: Publisher's Name.

e.g. Wonnacott, Thomas and Ronald Wonnacott. 1984. *Introductory statistics for business and economics*. Third edition. Toronto: John Wiley & Sons.

(ii) JOURNAL ARTICLES OR ARTICLES IN A BANK REVIEW:

Lastname, Firstname. Year. Title of article. *Name of Journal or Bank Review* Volume: pages.

e.g. Geweke, John F. and David E. Runkle. 1995. A fine time for monetary policy. *Federal Reserve Bank of Minneapolis Quarterly Review* 19: 18-31.

(iii) GOVERNMENT PUBLICATIONS:

Government Agency, Bureau or Department. Year. *Title*. Catalogue or issue number or additional information (where applicable).

e.g. Statistics Canada. 1983. *Logging: Annual census of forestry*. Catalogue No. 25-201.

U.S. Department of Commerce, Bureau of the Census. 1975. *Median gross rent by counties of the United States, 1970*.

Prepared by the Geography Division in cooperation with the Housing Division, Bureau of the Census. Washington, DC.

(iv) NEWSPAPERS:

Lastname, Firstname. Year. Title. *Name of Newspaper*. Month day. Note that the page number should be given in the in-text citation, for example, (Sicular and Hartford 1989, 14).

e.g. Sicular, Terry and Kathleen Hartford. 1989. China's Looming Rural Crisis. *Asian Wall Street Weekly*. July 3.

(v) CHAPTERS IN EDITED BOOKS OR CONFERENCE VOLUMES:

Lastname, Firstname. Year. Title. In *Title of book/volume*, ed. Firstname Lastname, page range. Place of Publication: Publisher's Name.

e.g. Fafchamps, Marcel. 2001. The role of business networks in market development in sub-Saharan Africa. In *Communities and markets in economic development*, ed. Masahiko Aoki and Yujiro Hayami, 186-214. New York: Oxford University Press.

(vi) ONLINE BOOKS:

Lastname, Firstname. Year. *Title*. Place of Publication: Publisher. url/web address (access date).

e.g. Mäler, Karl-Göran and Jeffrey R. Vincent, eds. 2005. *Handbook of environmental economics, Vol. 3: Economywide and international environmental issues*. Amsterdam: Elsevier. <http://www.sciencedirect.com/science/handbooks/15740099> (July 23, 2007).

(vii) ONLINE JOURNAL ARTICLES:

Lastname, Firstname. Year. Title. *Journal* Volume: pages or article number. url/web address (access date).

e.g. Ruffle, Bradley J. and Richard Sosis. 2007. Does it pay to pray? Costly ritual and cooperation. *B.E. Journal of Economic Analysis and Policy* 7(1): Article 12. <http://www.bepress.com/bejeap/vol7/iss1/art18> (Aug. 7, 2007).

(viii) INTERNET SITES:

Name of Website or Organization. url/web address (access date).

e.g. Transparency International. <http://www.transparency.org> (May 3, 2007).

## Writing an Economics Essay: Starting Points

The best place to start with a written economics assignment is by reviewing your instructor's description of and instructions about the assignment. If you have questions about the assignment, you should ask your instructor.

A good way to learn how economists write is to read work written by economists. Examples of economic writing can be found in the course outline, economics journals, working papers series, and other economic publications. Your instructor may be able to suggest good examples of published work or provide examples of good student work from past years.

Two books that provide useful advice on how to write for economics are:

McCloskey, Dierdre N. 2000. *Economical writing, 2<sup>nd</sup> edition*. Prospect Heights, Illinois: Waveland Press.

Greenlaw, Steven A. 2006. *Doing economics: A guide to understanding and doing economic research*. New York: Houghton Mifflin Co.

## Writing an Economics Essay: Resources

An excellent place to start looking for information and ideas is the **Links website** of the Department of Economics Reference Centre (<http://economics.uwo.ca/econref/links.asp>). This website gives a comprehensive list of places to find published and unpublished economic papers, articles, books, theses, government publications, data, and so on.

The **DB Weldon Library** has an outstanding collection of materials in economics including bibliographies, indexes, handbooks, and periodicals. Library holdings, the online library catalogue, and other resources are available electronically from the Western Libraries Homepage <http://www.lib.uwo.ca/>. Access is available anywhere there is an internet connection using the OffCampus Proxy Server on the Library main page.

You are strongly encouraged to take a library orientation tour to learn about library resources, where things are located physically and online, and where to go for assistance. You should feel free to consult library staff if you have any questions or are having difficulty using the library.

*The New Palgrave: A Dictionary of Economics* (DBWREF HB61.N49 1987 v.1-4) is a good place to begin exploring topics in economics. This is the most comprehensive dictionary of economics in existence today.

*EconLit (Economic Literature)* is a comprehensive, indexed electronic bibliography of the world's economic literature from 1969 to the present covering more than 400 major journals, articles in collective volumes (essays, proceedings, etc.), books, book reviews, dissertations, and working papers. Abstracts are provided for many items. *Econlit* is available through the Library catalogue or from the Library homepage under "Resources by Subject > Economics > Articles Using Indexes > Econlit."

You can search, download and print records from the *EconLit* database. Once you have successfully marked records of interest, you can use the menu to download your marked records to a text file, send marked records by email, or export them to a citation manager such as *Refworks*.

*Refworks* is a bibliographic and citation software tool that can be used to construct citations and lists of references in the author-date and other styles. *Refworks* is available at <http://refworks.scholarsportal.info/Refworks/login.asp?WNCLang=false>.

**CANSIM (Canadian Socio-economic Information Management System)** is Statistics Canada's computerized database of time series data covering a wide variety of social and economic aspects of Canadian life. Access to the database can be found at <http://ssnds.uwo.ca/bibliodatabases.html>, through a Western Libraries Catalogue search for *CANSIM*, under Title, or through Weldon Library in the *Resources by Subject* pages for Government Publications <http://www.lib.uwo.ca/resources/#gov>.

## Western Undergraduate Economics Review (WUER)

The Department of Economics encourages students to consider submitting their essays to the *Western Undergraduate Economics Review*. The *WUER* is a journal published by the Department once a year that showcases student work in economics. For information about the *WUER* and its submission guidelines, please visit <http://economics.uwo.ca/undergraduate/undergradreview.asp>.