INTERNATIONAL MACROECONOMICS

Economics 419H/2303H

Tuesdays 11AM to 1PM -- Fall Term -- NEW ROOM: LA 248

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Important Message For Potential Students!

This is a 400-level course for upper-level undergraduates and graduate students. Undergraduates should contact me before enrolling. Those who have more than one C and no A's in the prerequisite courses and plan on working no harder here than they have in the past can very easily fail this course! Undergraduates who have the ability and work habits to eventually do graduate work themselves should not find it difficult to compete with the graduate students in this course---indeed, the top undergraduates typically get high A's. But this is not an appropriate course for students who are anxious to get on to other things and whose overriding objective is simply to obtain a mere 50% grade to get the necessary credit to graduate.

Important Information For Students Wishing to Enrol this Fall!

Undergraduates wishing to enrol in Economics 419H in the fall term must obtain my permission. I will decide who should enrol by looking at their grades in relevant previous courses. This summer I will be away for two periods, from June 6 through June 22 and from August 20 though Sept 7. Students seeking my permission during these two periods should contact Jenny Fan in Room 134 of Gluskin House. They should also obtain their past grade records fom ROSI and e-mail .html copies of those records to both Jenny and me. I will read through every such grade record and make a decision as to whether to allow the student enrol. I will then inform Jenny by e-mail of my decison. She will enrol those students for which my permission is granted.

Graduate students can enrol without seeking my permission if they want to take the course.

During this process, it is important to keep in mind that the University will only permit course enrollments (in any course) from July 10 onward so Jenny cannot enrol anyone before that date even with my permission. In addition, the maximum number of courses students will be allowed to enrol in between July 10 and August 7 will be 5.0 full courses. So to add my course a student can only have already enrolled in 4.5 full courses. Starting on August 9th at 6:00PM, students will be allowed to enrol in up to 6 full courses and can add mine if they already have enrolled in 5.5 courses or less. For these and other details, go to the Arts and Science Web Page by clicking here.

General Information About the Course

The objectives of this course are to help you develop a basic understanding of how the international monetary system functions and how macroeconomic policy is conducted in individual countries embedded in that system. Analytical tools will be developed to critically evaluate public policy arguments and comments appearing in the popular press. An introduction to the methodology and techniques of current research in the field will be given and you will develop your ability to read critically some of the professional literature. All this requires the establishment of an analytical framework into which current and historical issues in theory and policy can be placed. Building this framework is the central focus of the course.

Prerequisites for this course include a decent background in intermediate microeconomics and macroeconomics and elementary statistics. Some elementary calculus and matrix algebra will be used from time to time. Those who have excellent backgrounds in mathematics and statistics can get by with a weaker background in economics because ease with technique will permit more time to be spent on the basics of economics. Upper-level undergraduates and M.A. students, and potential Ph.D. students as well, will find this course useful in developing skills that will be useful for entry-level positions in the financial services industry.

Study question assignments have been prepared and can be downloaded from this web-site. You are expected to use the study questions and exercises to stimulate your thinking about the issues dealt with in the readings. In some of these exercises you will "get your feet wet" in real data. I will provide for each student three one-on-one sessions, of one hour or more, during which the student will explain his/her answers to a set of study questions to me an I will comment on those answers and grade the student on performance.

There will be twelve two-hour classroom sessions, two of which will be used for tests. In those two cases, students will write the test in the first hour and the answers will be taken up in the second hour. Students and can see me in my office (I am usually there most afternoons) to obtain any help they feel they need.

Because the background and initial preparation of students entering this course will be diverse, some elementary computer-assisted study modules will be assigned during the term. These will bring everyone up to speed on some of the basics which will therefore not have to be reviewed in class. Past experience indicates that students who have done previous work in macroeconomics at an advanced level, or who have taken a third year international macroeconomics course, do not take these modules seriously, figuring that they already know the material. This is a big mistake! My experience is that even quite advanced students do not really understand the material they have taken in previous courses. One reason for this is that macroeconomics courses differ in organization and content so that students in this class will have specific views of what macroeconomics is about that differ both from student to student and from the approach taken here. As a result students are typically unable to deal with questions posed in different ways than that to which they are accustomed. A second reason is that students' primary objective is often to get an appropriate grade in a course rather than learn the material, so they tend to learn just what is necessary to be able to put the "right things" down on the final exam. Figuring out what might be asked on the final exam and how to phrase an answer to it is quite different than learning the fundamentals of a subject. A third reason is that international macroeconomics is a difficult subject and it takes several courses before students begin to understand the fundamentals. The fundamentals are the sine qua non for understanding what is going on in this field. Every model has to be based on and relate properly to these fundamentals if it is to be of any use--students who understand models but not the fundamentals on which they are based have no useful knowledge of macroeconomics. On the other hand, students who understand the fundamentals and have a good mathematics background can easily construct and evaluate models to deal with specific questions as they arise. The basic objective here is to teach you the fundamentals. These are completely contained in the modules. The rest of the course is necessary to get you to the point where you have a sophisticated understanding of the material in those modules and more fully understand the theoretical foundations of that material. You should therefore take the computer modules very seriously, because you will not get a decent grade in this course without understanding the material they contain.

The course material to be covered is divided into four sections or units. All reading material assigned is compulsory except where noted---the main exception will be background material covering statistical techniques where your existing skills may be sufficient to make review redundant.

All the published materials required in this course are on <u>on reserve in Robarts Library</u>. The computerassisted study modules can be worked through by just clicking on the links to the relevant html files below.

There will be two major tests and a final exam. The first test will cover the computer-assisted study modules assigned plus the material covered in class up until it given, which will be about 5 weeks into the course. The second term test will cover the computer module and class material up to the time it is given, 9 or 10 weeks into the course. The final exam will, of course, cover the entire course including those parts that were not covered in the second term test. The term tests will each count for 20 percent of the final grade. The four one-one tutorial sessions will count for 10 percent of the final grade and the final exam will count for the remaining 50 percent.

I have constructed a set of <u>Occasionally Asked Questions</u> together with rather complete answers. You may find these useful.

Mathematics, Statistics and Econometrics Background Material

Students who need to improve their background in the basics of mathematics and statistics should download and work through the material I have prepared for that purpose --- <u>Mathematics Review for Economics</u> <u>Students</u> and <u>Basic Statistics Review for Economics Students</u>. Students who find these reviews insufficient can refer to appropriate parts of the documents that were used in constructing those review materials. A good reference from which students can brush up on their basic mathematics skills is Alpha C. Chiang, *Fundamental Methods of Mathematical Economics*, McGraw Hill, 1984, which is on course reserve in the UofT library. For the basics of algebra, read pp. 7-32. Equilibrium analysis and matrix algebra are covered on pp. 35-87. Discussion of derivatives and slopes of functions can be found on pp. 128-178 and pp. 254-262. Exponential and logarithmic functions are covered on pp. 268-306 and integrals are discussed on pp. 437-454. A more recent version of the book, the 4th edition, authored by Alpha Chiang along with Kevin Wainwright in 2005, is available for reading in the 2nd. floor library in the Rotman School of Management. The best procedure for using this book is to utilize the index to find the main topics and then read the parts that you need to learn. Also, a nice review of matrix algebra is contained in Appendix A of Jack Johnston and John DiNardo, *Econometric Methods*, McGraw-Hill, 1997, pp. 455-67 (to the end of section A.2.7). This book is also on reserve in the UofT Library.

To acquire further statistical background students should read, as their circumstances dictate, G. S. Maddala, *Introduction to Econometrics*, Chapters 2 and 3, pp 9-51. Alternatively, you can read James H. Stock and Mark W. Watson, *Introduction to Econometrics*, Addison Wesley, 2003, pp. 3-195. The Maddala and Stock and Watson books are on reserve in the UofT Library. If you find this material too difficult you can work through the <u>notes I have prepared for my basic statistics course</u>. Also, to learn about heteroskedasticity- and autocorrelation-consistent standard error estimation you should read pp. 607-617 of the Stock and Watson Book. A matrix-algebra-focussed treatment of multiple regression is contained in Johnston and DiNardo book noted above, Chapter 3, Section 3.1, pp. 69-76 and Section 3.4, pp. 86-98 (you can skip Sub-section 3.4.4). Appendix B, pp. 485-90 (to the end of section B.4), contains a further presentation of statistics concepts.

Students are encouraged to empirically investigate on their own some of the analysis presented in the course. For this purpose they can obtain relevant data from this web-site which can be analysed using the freely-available statistics softward program <u>Gretl</u> or even MS-Excel, a sufficient clone of which, called <u>Gnumeric</u>, is also freely available off the web. For the basics of working with Gretl and getting started doing statistical programming in free programs XLispStat and R, a free clone of the statistical program S, you can consult

some materials I have prepared for that purpose in <u>Statistical Analysis Using XLispStat, R and Gretl: A</u><u>Beginning</u>. And for day-to-day work in Gretl I have written <u>a short Gretl Mini-Manual</u>.

Macroeconomics Background Material

Since this course is an advanced one, it is assumed that students taking it have a decent background in basic Macroeconomics. Before starting the course, or immediately after attending the first lecture, everyone should work through the five computer-assisted learning modules <u>The Dimensions of Economic Activity</u>, <u>Interest Rates and Asset Values</u>, <u>Money and Inflation</u>, <u>Interest Rates and Growth</u> and <u>Unemployment</u>.

Microeconomics Background Material

Students should also have a decent background in basic microeconomics to get the full benefit of working through this course. Three additional computer-assisted-learning modules are available for this purpose: <u>Supply and Demand, Rents and Externalities</u> and <u>Additional Topics</u>. Students should work carefully through all these modules as necessary. In all modules, whether dealing with microeconomics or macroeconomics, background references are listed at the end of each topic.

Course Outline

I: The Preliminaries: Inter-temporal Foundations of Macroeconomic Equilibrium

The analytical framework used for most of this course is single-period focused---that is, it examines aggregate equilibrium of the economy in a single period or a succession of single periods, most frequently with reference to deviations of output around the full-employment level. But consumption, investment and government budget decisions are based on the maximization of utility not just in the current period but simultaneously in the current and all future periods.

Ideally, therefore, to completely understand the current state of the economy we should solve simultaneously for equilibrium not only in the current period but in all future periods as well, with the equilibria in future periods representing the expected and planned future outcomes as viewed from the present. Decisions in the present are thus interconnected with all future decisions and cannot be analyzed without understanding agents' inter-temporal utility functions and expected future constraints.

The problem with inter-temporal models is that they become extremely complicated when we try to focus on more than one or two simple relationships at a time and as a result do not provide a good overview of the broad picture. Single-period aggregative models, on the other hand, can provide an excellent framework to think about the important day-to-day macroeconomic problems. Indeed, they form the basis for virtually all the current analysis and forecasting efforts of practitioners in the field.

But single-period aggregative models can do this only if they take all of the important implications of intertemporal maximizing models implicitly into consideration. This is why the computer-assisted study module on fiscal policy, for example, considers the effects of taxes on permanent income and on inter-generational asset accumulation. It is also why the fiscal policy analysis developed there could say far less about the effects of fiscal policy than older Keynesian *IS-LM* models claim to be able to say. In fact, I could not have written those computer modules and most of the other material presented in this course without prior knowledge of the implications of inter-temporal maximizing models.

Accordingly, in this first section of the course we must establish appropriate inter-temporal foundations for the models that will be later developed. The task is not to develop a big inter-temporal maximizing model of a multi-country world---such a model would be too complicated to shed any light on the issues we want to examine. On the contrary, what we must do is make sure that the features of the single period models we will be using take proper account of the underlying process of inter-temporal maximization that forms the basis for the individual decisions that ultimately combine to create the observed magnitudes of the economic aggregates on which our models will focus.

The task here essentially involves understanding the process by which the full-employment level of output gets established at each point in time and, since saving and investment are occurring, the underlying growth rates of those full-employment magnitudes. This can be accomplished by working through the material in a few chapters of my book, J. E. Floyd, *Interest Rates, Exchange Rates and World Monetary Policy*, Springer-Verlag, 2010, which will here-after be referred to simply by its title. I have decided against having my students buy this book as a textbook. Accordingly, I have placed four copies on reserve in Robarts Library. Two of those copies can be taken out on loan for three hours, and two can be taken on loan for two days. Also, the book is available in e-book form in Robarts Library and can be read by everyone directly off the web.

Assigned Readings and Computer Study Modules

The purpose of working through this material is to develop a solid understanding the full-employment levels of the basic variables that will be analyzed throughout the course. This involves the development of a basic growth model that will be in the background of the analysis in the rest of the course. It also involves understanding the role of money and the determination of the relative prices of the outputs of various countries---that is, their real exchange rates---along these growth paths.

To begin with, you should work again through the first computer-assisted learning module, <u>The Dimensions of Economic Activity</u>. The material it contains is very elementary but it provides a bit of focus. Then you should work through the second module <u>Interest Rates and Asset Values</u> and the third, <u>Money and Inflation</u> For students with a good economics background this material should be an easy review as a prelude to working through material in my book. Two additional computer study modules, <u>Interest Rates and Growth</u> and <u>Unemployment</u> are assigned as further background for the assigned readings in the course.

The assigned reading for this section of the course is Chapters 2, 3, and 4 consisting of pages 11 through 57 of *Interest Rates, Exchange Rates and World Monetary Policy*. In doing this reading, students should focus on the questions in <u>Assignment Number 1</u>, and on the material in <u>Advanced Topic 1: Intertemporal Foundations I</u>, <u>Advanced Topic 2: Intertemporal Foundations II</u> and <u>Advanced Topic 3: Real and Monetary Shocks and Balance of Payments Equilibrium</u> which outline the issues and material from the book that will be discussed in class. The material in the first of these two advanced topics draws on the R script <u>dliqcalc.R</u> and the material in the second two refers to the two scripts <u>GGAAssg.R</u> and <u>GGAA.R</u>, the first of which generates output that is in the Exel file <u>GGAAssg.xls</u>. These, are worth working through to develop the fullest understanding of the material in the two Advanced Topics.

Another very useful read is the first 39 pages of the book *Foundations of International Macroeconomics* by Maurice Obstfeld and Kenneth Rogoff, published by MIT Press. The material presented provides a solid basis for arguments pursued thus far and in the rest of this course. Reading this material is suggested for those who are interested, but it is not required reading. Those who choose to work through it will find the <u>solutions</u> for the problems in Obstfeld and Rogoff available in .pdf form from Rogoff's home page at Harvard. Also

Bridget O'Shaughnessy and I have made some <u>notes</u> (postscript 195k) to help those who want to read the assigned section of Obstfeld and Rogoff and do problems 1 through 4c at the end of Chapter 1.

Students should also make specific appointments with me for their first of the four tutorial sessions that will meet during the first week of October. The earliest to make their requests will get to select their convenient session-times with the latest to make their requests obtaining the times left over. This first tutorial session will cover students understanding of the material in all the learning modules assigned above together with <u>Advanced Topic 1: Intertemporal Foundations I</u>, <u>Advanced Topic 2: Intertemporal Foundations II</u> and <u>Advanced Topic 3: Real and Monetary Shocks and Balance of Payments Equilibrium</u> (which is a repeat and extension of material in Advanced Topic 2) as reflected in their students answers to <u>Assignment Number 1</u>, and <u>International Macroeconomics Review Questions I</u>, (Questions may be added or subtracted and exising ones changed before your tutorial actually takes place).

II: The Foreign Exchange Market and the Balance of Payments

Before proceeding further, you should work through the next three assigned computer-assisted study modules <u>Asset Markets</u>, <u>The Foreign Exchange Market</u> and <u>Small Open Economy Equilibrium I: The Balance of</u> <u>Payments and the Exchange Rate</u>,

Next you should work again through the presentation file <u>Advanced Topic 3: Real and Monetary Shocks and</u> <u>Balance of Payments Equilibrium</u> which pulls together the general equilibrium nature of the relationship between savings and investment and the current account balance discussed in the above computer-assisted study module *The Balance of Payments and the Exchange Rate*. It also makes a fundamental point about the nature of balance of payments equilibrium which will be discussed in a more elementary way in computerassisted study module *Monetary Policy Under Fixed Exchange Rates* assigned below----if you have difficulty understanding that section of the above Advanced Topic presentation, rest assured that you will more easily understand it after you have worked through the Lesson 10 module <u>Small Open Economy Equilibrium III:</u> <u>Monetary Policy Under Fixed Exchange Rates</u> which will be worth working through right now.

At this point it will be worthwhile for you to read

• Bennett T. McCallum, *International Monetary Economics*, Chapter 2, Exchange Rate Concepts, pp. 14-42.

Next you should print out the assignments for this section of the course, <u>Assignment Number 2</u> and <u>Assignment Number 3a</u>. Keep an eye on these assignment questions while working through the material in the the advanced topic presentations, the first of which is <u>Advanced Topic 4</u>: <u>Exchange Rate Determination I</u> which summarizes the important ideas in Chapters 7 and 8, pages 99 through 130, of *Interest Rates, Exchange Rates and World Monetary Policy*, using them as a guide to what you should be learning. The goal should be to understand the material in the Advanced Topic presentations. You can access the <u>data</u> referred to and <u>statistical input files used and outputs produced</u> if you wish to.

It will become apparent as you work through the above material that some knowledge of elementary timeseries analysis will be necessary. If you feel you need it, you should read

• Walter Enders, Applied Econometric Time Series, Chapter 4, pp. 211-227 and pp. 233-250.

In reading the Enders material your focus should be on understanding the basic ideas rather than developing proficiency in time-series analysis, keeping in mind that this is a course in economics, not statistics.

You will also find it useful to read

• Kenneth Rogoff, "The Purchasing Power Parity Puzzle," *The Journal of Economic Literature*, Vol. 34, June 1996, 647-668.

Turn next to <u>Advanced Topic 5: Exchange Rate Determination II</u> for the discussion of covered and uncovered interest parity and efficient markets, followed by the problem of exchange rate overshooting. A more complete presentation is in Chapter 9, pages 131 through 156, and Chapter 6, pages 87 through 98 of *Interest Rates, Exchange Rates and World Monetary Policy*. Again, relevant data files and statistical script and output files are available at the links above.

The next presentation, <u>Advanced Topic 6: Exchange Rate Determination III</u>, works through material in Chapter 10, pages 157 through 208 of *Interest Rates, Exchange Rates and World Monetary Policy* that investigates the effects of various real factors determining the levels of countries' real exchange rates along with an explanation of the forces determining domestic minus foreign interest rate differentials, which tend to be correlated with real exchange rates. The data for Canada vs. the United States, along with the relevant statistical analysis, is contained in the Gretl session file <u>causrex.gretl</u>. The data, program and output files for the analysis of the other countries vs. the United States are available at the links above.

The final Advanced Topic presentation for this section of the course is <u>Advanced Topic 7: Exchange Rate</u> <u>Determination IV</u> which covers Chapters 11 and 12, pages 209 through 268 of *Interest Rates, Exchange Rates and World Monetary Policy*. The first chapter adds alternative measures of unanticipated money shocks to the regressions above that explain real exchange rate movements and to the regressions that explain interest rate differentials. The second chapter develops and applies a Blanchard-Quah VAR analysis to the movements of real and nominal exchange rates. Again the relevant statistical application, output and data files can be obtained via. the links above. The nature of Blanchard-Quah analysis is explained in pages referred to in Chapter 12.

For bed-time reading (not required if you have something better to do at bed time) you might read

Christopher J. Neely, "Technical Analysis in the Foreign Exchange Market: A Layman's Guide" Federal Reserve Bank of St. Louis Review, Vol. 79, No. 5, September/October, 1997, pp.23-38.

At this point you should arrange for your second one-on-one tutorial which will deal with your answers to <u>Assignment Number 2</u>, and <u>Assignment Number 3a</u>, as well as to <u>International Macroeconomics Review</u> <u>Questions 2</u> which will include questions focusing on all the above Advanced Topic presentations dealing with Exchange Rate Determination. Contact me to arrange tutorial times during the first week of November--again, first-come first-served!.

III: International Monetary Systems: Flexible Exchange Rates and Balance of Payments Equilibrium Under Fixed Exchange Rates

1. Goods Market and Asset Market Equilibrium: Flexible Exchange Rates

Work your way carefully through the computer-assisted learning module, <u>Small Open Economy Equilibrium</u> <u>II: Monetary Policy Under Flexible Exchange Rates</u>.

2. Fixed Exchange Rates and the Process of Money Creation

Now work again through the module <u>Small Open Economy Equilibrium III: Monetary Policy Under Fixed</u> <u>Exchange Rates</u>.

3. Fixed and Flexible Exchange Rates, Key Currencies and the Gold Standard

Before proceeding further you should have in hand your printout of <u>Assignment Number 3b</u>, so that you can refer to the assignment questions and exercises as you read the material that follows.

Now work your way through <u>Advanced Topic 8: A Basic Two-Country Model</u> which consolidates and extends the material already presented in this Section. As background you can read Chapter 13 of *Interest Rates, Exchange Rates and World Monetary Policy*, consisting of pages 269 through 288. For a fuller and more complete discussion of two-country situations where both countries are big and one of those big countries is really an aggregate of many small countries, it is essential that you work through the computer-assisted learning module <u>Big Open Economy Equilibrium</u>. Since fiscal policy is discussed in that module, you must first work through the module entitled <u>Small Open Economy Equilibrium IV: Fiscal Policy</u>. The computer-assisted learning module <u>Small Open Economy Equilibrium V: Additional Policy Issues</u> should also be worked through to get a full understanding of all the issues involved.

To broaden and deepen your understanding of the gold standard you can work your way through

• Trevor J. O. Dick and John E. Floyd, "Balance of Payments Adjustment under the International Gold Standard: Canada, 1871-1913," *Explorations in Economic History*, 28, 1991, 209-238.

In order to understand everything in the Dick-Floyd paper you may need to review your understanding of multiple-regression analysis. It is easiest to do this in a linear-algebra framework. If you need review you should read

• Jack Johnston and John DiNardo, *Econometric Methods*, McGraw-Hill, 1997, Appendix A, pp. 455-67 (to the end of section A.2.7), Appendix B, pp. 485-90 (to the end of section B.4), and Chapter 3, Section 3.1, pp. 69-76 and Section 3.4, pp. 86-98 (you can skip Sub-section 3.4.4).

IV: Fixed vs. Flexible Exchange Rates and Optimal Currency Areas

To start, print out the assignment, <u>Assignment Number 4</u>, to use for guidence as you work through the readings. You should then work carefully through the module <u>Conducting Monetary Policy</u>. Next, work through <u>Advanced Topic 9</u>: <u>Conducting Monetary Policy</u>, and then work through the working paper <u>Open</u> <u>Economy Monetary Policy</u> and <u>Real and Nominal Exchange Rates: The Canadian Case</u>.

For an interesting policy discussion applying the principles you have learned thus far, you should read

• J. E. Floyd, "Are Canadian Interest Rates Too High?" Canadian Public Policy, June 1995, 143-158.

We now shift our focus to the study of currency unions. To acquire relevant background knowledge relating to the establishment of the Euro Area, you can read

• Bennett T. McCallum, *International Monetary Economics*, Oxford University Press, 1996, Chapter 11, pp. 227-247,

and for a more recent and detailed review of the institutional details surrounding the establishment of a common currency in Europe, you should read

• Jay H. Levin, A Guide to the Euro, New York: Houghton Mifflin Company, 2000.

For an analysis of the recent controversy about whether Canada should adopt the U.S. dollar as its currency, go through

• Jack L. Carr and John E. Floyd, "Real and Monetary Shocks to the Canadian Dollar: Do Canada and the U.S. Form an Optimal Currency Area? " University of Toronto, December 7, 2001 (253k). Those of you who are interested might wish to look at other papers dealing with this issue.

For an an excellent summary analysis of the case for flexible vs. fixed exchange rates by Alan Stockman.

• Alan C. Stockman, "Choosing an Exchange-Rate System", *Journal of Banking and Finance*, Vol. 23, 1999.

Finally, Mick Devereux's paper

• Michael B. Devereux, "Real Exchange Rates and Macroeconomics: Evidence and Theory", *Canadian Journal of Economics* Vol. 30, No. 4a, 1997, pp. 773-807

which provides a very good review of work on the analysis of real exchange rates in the tradition of real business cycle models. Read it as a road-map of the research direction in which an important segment of the profession is headed.

For an excellent practical discussion of monetary policy in Canada, you might want to read

• David E.W. Laidler and William B.P. Robson, *Two Percent Target: Canadian Monetary Policy Since* 1991, C.D. Howe Institute, Policy Study 37, July 2004, Chapters 2 and 3.

And, before heading off to work in the financial district you could profit by reading John Crow's book <u>Making Money: An Insider's Perspective on Finance, Politics, and Canada's Central Bank</u>, John Wiley and Sons Canada Ltd, 2002, and, if you have not had a course in forecasting, you might want to read pages 430-488 and 534-552 of James H. Stock and Mark W. Watson, *Introduction to Econometrics*, Addison Wesley, 2003.

Finally, it is time to arrange your third one-on-one tutorial which will cover everything above after the material covered by your second tutorial. Arrange an appropriate time with me during the first week of December.

Back to Index