McGill University
Department of Economics
Econ 469: Econometrics
Winter 2010
Course outline

Professor: Jean-Marie Dufour

January 10, 2010

This course is a sequel to ECON 468 given during the Fall 2009 semester.

The basic textbook is the same, but additional or modified material will be presented in the lectures.

Documents and other material relevant to the course will be available from my web page:

`http://www.jeanmariedufour.com`

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Lecture hours: Monday 14:35 - 15:55; Wednesday 14:35 - 15:55.
Beginning: January 4, 2010. End: April 14, 2010.
Study break: February 21-27, 2010.
Easter holiday: April 2-5, 2010.
Room: Burnside Hall 1B39.
Office hours: Monday 17:00 - 18:00 (or by appointment)
Teaching assistants: Xin Liang, second TA possible (TBA)
TA sessions: to be determined
e-mail: `jean-marie.dufour@mcgill.ca`

Evaluation will be based on 3 elements:

1. a mid-term exam (February or beginning of March 2010): 20% (non-detrimental); date: Wednesday March 1, 2010;
2. assignments: 30%;
3. a final exam (April 2009): 50% (70% if the mid-term grade is lower the final grade).

In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded.

McGill University values academic integrity. Therefore all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures (see www.mcgill.ca/students/srr/honest/) for more information).
L'université McGill attache une haute importance à l'honnêteté académique. Il incombe par conséquent à tous les étudiants de comprendre ce que l'on entend par tricherie, plagiat et autres infractions académiques, ainsi que les conséquences que peuvent avoir de telles actions, selon le Code de conduite de l'étudiant et des procédures disciplinaires (pour de plus amples renseignements, veuillez consulter le site www.mcgill.ca/students/srr/honest/).

Recommended text

The main reference for this course is the textbook:

DM2004 Davidson, R. et J. G. MacKinnon (2004), *Econometric Theory and Methods* (ETM), Oxford University Press, Oxford.

Other books used

Am1985 Amemiya, T. (1985), Advanced Econometrics, Harvard University Press, Cambridge, Massachusetts.

GM1989 Gouriéroux, C. et A. Monfort (1989), Statistique et modèles économétriques, Volumes 1 et 2. Economica, Paris.

GM1995 Gouriéroux, C. et A. Monfort (1995), Statistics and Econometric Models, Volumes 1 and 2. Cambridge University Press, Cambridge, U.K.. English translation of previous book.

Rao1973 Rao, C. R. (1973), Linear Statistical Inference and its Applications, Second Edition, Wiley, New York.

White1984 White, H. (1984), Asymptotic Theory for Econometricians, Academic Press, Orlando, Florida.

Readings and main references

The symbol * represents required readings. Photocopied lecture notes also constitute required reading.

1. Introduction to time series models

   Lecture notes
   DM2004 – Section 7.6 Chap. 13

2. Additional material on linear regression

3. Generalized least squares and related topics

   DM2004 – Chap. 7

4. Instrumental variables methods

   DM2004 – Chap. 8

5. Generalized methods of moments

   DM2004 – Chap. 9

6. Multivariate models

   DM2004 – Chap. 12

7. Methods for stationary time series data

   DM2004 – Chap. 13

8. Unit roots and cointegration

   DM2004 – Chap. 14

9. Discrete and limited dependent variables

   DM2004 – Chap. 11

10. Testing the specification of econometric models

    DM2004 – Chap. 15