McGill University
Department of Economics
Econ 467D2: Econometrics
Winter 2008
Course outline

Professor: Jean-Marie Dufour

January 2008

This course is the sequel to ECON 467D1 given by Professor Russell Davidson during the Fall 2007 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 form my web page:

`http://www.jeanmariedufour.com`

–

Lecture hours: Monday 16:05 - 17:25; Wednesday 16:05 - 17:25. Room: Leacock Building 14. Beginning: January 3, 2008. End: April 11, 2008.
Teaching assistant: Mirza Trokic
e-mail: `jean-marie.dufour@mcgill.ca`

Evaluation will be based on 3 elements:

1. a mid-term exam (February or beginning of March 2008);
2. assignments;
3. final exam (April 2008).

As in the first half of the course, the marking scheme is such that the final grade for the term will be

$$Grade = \max\left(F, \frac{F+M}{2}, \frac{F+(M+A)/2}{2}\right)$$

where F is the grade on the final exam (April), M that on the midterm, and A a composite grade for the assignments. The main rule is that you cannot do worse on the entire term than what you get for the final exam.

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.

Autres livres utilisés / 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. Generalized least squares and related topics

   DM2004 – Chap. 7

3. Instrumental variables methods

   DM2004 – Chap. 8

4. Generalized methods of moments

   DM2004 – Chap. 9

5. Multivariate models

   DM2004 – Chap. 12

6. Methods for stationary time series data

   DM2004 – Chap. 13

7. Unit roots and cointegration

   DM2004 – Chap. 14

8. Discrete and limited dependent variables

   DM2004 – Chap. 11

9. Testing the specification of econometric models

   DM2004 – Chap. 15