### Course title - Intitulé du cours

<table>
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<tr>
<th>Topics in Applied Econometrics and Development</th>
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### Level / Semester - Niveau /semestre

| M2 / S1 |

### School - Composante

| Ecole d'Economie de Toulouse |

### Teacher - Enseignant responsable

| GAZMURI Ana Maria |

### Other teacher(s) - Autre(s) enseignant(s)

| SEABRIGHT Paul |

### Lecture Hours - Volume Horaire CM

|  |

### TA Hours - Volume horaire TD

|  |

### TP Hours - Volume horaire TP

| 0 |

### Course Language - Langue du cours

| Anglais |

### TA and/or TP Language - Langue des TD et/ou TP

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### Teaching staff contacts - Coordonnées de l’équipe pédagogique:

Students with questions about the course material are encouraged to ask them during or at the end of class before requesting a meeting with the lecturer. Meetings should be requested by email.

Prof. Ana Gazmuri, e-mail: ana.gazmuri@tse-fr.eu

Prof. Paul Seabright, e-mail: Paul.Seabright@tse-fr.eu

### Course’s Objectives - Objectifs du cours:

The objective of this course is to familiarize the student with some of the econometric tools used in the development economics literature. Students should be able to work on a data set in a research project and to critically read the assigned papers.

### Prerequisites - Pré requis:

Students should be familiar with basic econometrics.

### Practical information about the sessions - Modalités pratiques de gestion du cours:

Students are expected to read the assigned papers before the class and participate actively in class discussions.

### Grading system - Modalités d’évaluation:

A set of home assignments (in groups of up to 3 students) will constitute 50% of the grade; these will involve working on a data set, the details of which will be made available before the end of January. Also, there will be a final exam (50%). We shall endeavor to make the reading material available either through e-mail, a shared dropbox folder or, for some books, through lending you our personal copies. The logistics of this will be discussed in the first class.

### Bibliography/references - Bibliographie/références:

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Wooldridge, Jeffrey, “Econometric Analysis of Cross Section and Panel Data”.

Required readings (marked with * below) will be covered in detail during lectures and we expect students to read them beforehand in order to participate in class discussion. Suggested readings will not be discussed in detail but may be referred to and are listed here as a guide for further study. There is also a reference bibliography for other works referred to in the course. We also include a number of books, of which some are used for reference purposes (in which case chapter or page numbers will be indicated) while others are for background reading. Do not think that background reading is unimportant! It matters just as much to acquire a rigorous and scientific outlook on empirical investigation as to learn specific techniques.

**Session planning - Planification des séances :**

- Experiments (2 sessions)


Books: Poor Economics, Bad Science, The Emperor’s New Drugs

- Panel Data (2 sessions)

*Wooldridge, Chapters 10 & 11


- Instrumental Variables (3 sessions)

*Wooldridge, Chapter 5


- Regression Discontinuity Design (1 session)


*Chen, Yuyu, Avraham Ebenstein, Michael Greenstone and Hongbin Li. 2013, Evidence on the impact of sustained exposure to air pollution on life expectancy from China’s Huai River policy, PNAS, 110(32), pp. 12936–12941


- Propensity Score Matching (1 session)


- Student Presentations (1 session)