

There will be daily problem sets which count for 70% of the final grade and one midterm which counts for 20%. There will be a final term paper assignment which counts for 10%. This paper will review a measurement paper of the student's choice. The term paper could be written as if it were lecture notes to the class, explaining what is important in the paper. The paper will be graded on whether it presents the main ideas in the paper in an analytically sound manner and on its use of English. Ideally, PhD students could add some analytical extensions to the existing analysis. Lecture notes on each topic are available at Diewert's departmental website under Courses: Economics 580. However, some chapters have not yet been posted and other chapters will be revised. Please note that there are 3 Mathematics for Economists chapters posted as well and it is expected that students know the material in these chapters.

0. Inequalities

1. Early Approaches to Index number Theory

2. Functional Equations

3. The Axiomatic Approach to Bilateral Index Number Theory

4. The Theory of the Cost of Living Index: The Single Consumer Case

5. The Theory of the Cost of Living Index: The Many Consumer Case

6. Problems with the Cost of Living Index

7. The Use of Annual Weights in a Monthly Index

8. Fixed Base Versus Chained Indexes

9. Two Stage Aggregation and Homogeneous Weak Separability

10. Elementary Indexes

11. Alternative Index Number Formulae using an Artificial Data Set

12. The Treatment of Quality Change and Hedonic Regressions

13. The Treatment of Owner Occupied Housing and Other Durables in a Consumer Price Index

14. The Economic Approach to the Producer Price Index

15. PPI Index Number Computations Using an Artificial Data Set

16. The Measurement of Financial Services

17. The Treatment of Seasonal Products

18. Multilateral Index Number Theory

19. The Use of Scanner Data in a Consumer Price Index

20. Index Number Theory: Past Progress and Problems for the Future