

Fall Term 2015

Leading House PH.D. Course Microeconomic Foundations of Economics of Education - Syllabus -

Lecturer:	Prof. Dr. Ludger Woessmann; University of Munich and Ifo Institute
Workshop dates:	October 05-08, 2015
Location:	University of Zurich, Room tba
Preliminary Schedule:	The lectures take place in the form of an intensive 4-day course. Monday, Oct. 05: 14:00-17:30 Tuesday, Oct.06: 09:00-17:30 Wednesday, Oct.07: 09:00-17:30 Thursday, Oct.08: 09:00-17:30
Module Number; ECTS:	DOEC0425; 3 ECTS
Course webpage:	http://www.business.uzh.ch/professorships/emap/teaching/courses/Fall-Term-2015/docmf.html.html

Course overview

The human capital of the population is a key determinant of labor-market success and economic growth. This brings the economics of education to the core of understanding individual and societal economic prosperity. This course will analyze the microeconomic foundations of the economics of education. We will study the efficiency and equity of educational production. The focus will be on the school system, but the broader lifecycle of education policy will also be covered. While studying recent applied research on education policy, we will also cover up-to-date econometric methods for the empirical identification of causal effects in the economics of education.

Topics

Introduction

- Why an "Economics" of Education?
- Economics of Vocational Education

www.economics-of-education.ch

The Swiss Leading House on "Economics of Education, Firm Behaviour and Training Policies"
A Research Programme of the State Secretariat for Education, Research and Innovation SERI

Prof. Dr. Uschi Backes-Gellner

Universität Zürich, Institut für Betriebswirtschaftslehre, Plattenstr. 14, CH-8032 Zürich
Tel. +41 44 634 42 81, Fax +41 44 634 43 70, backes-gellner@business.uzh.ch

Prof. Dr. Stefan C. Wolter

Universität Bern, Volkswirt. Institut, Forschungsstelle für Bildungsökonomie, Schanzeneckstr. 1, Postfach 8573, CH-3001 Bern
Tel. +41 31 631 36 56, Fax +41 31 631 39 92, stefan.wolter@vwi.unibe.ch

Swiss Leading House

Economics of Education, Firm Behaviour and Training Policies



Co-Director
Prof. Dr. Uschi Backes-Gellner

u^b

Co-Director
Prof. Dr. Stefan C. Wolter

UNIVERSITÄT
BERN

- Measuring Educational Performance

Efficiency of Educational Production

- The Education Production Function
- Effects of Class Size and Funding: Identification and Interpretation
- New Technologies in Education
- Teachers and Teaching
- Institutional Effects: Principals, Agents and Incentives
- Accountability and Central Exams
- School Autonomy
- School Choice and School Competition
- Incentives for Students and Teachers
- Nudges: The Behavioral Economics of Education

Equity of Educational Production

- Families and Intergenerational Mobility
- Peer Effects and Social Interaction
- Tracking
- Early Childhood Development
- Choice and Equity

The Lifecycle of Education Policy

- Dynamic Synergies in Skill Formation
- Early Childhood Education
- School Education
- Vocational Education
- Higher Education
- Adult Education

Concluding Considerations on Topics and Methods for Research

Key literature

- Abdulkadriroglu, A., J. Angrist, S. Dynarski, T. Kane, P. Pathak (2011). Accountability and Flexibility in Public Schools: Evidence from Boston's Charters and Pilots. *Quarterly Journal of Economics* 126 (2): 699-748.
- Angrist, J.D., J.-S. Pischke (2009). *Mostly Harmless Econometrics: An Empiricist's Companion*. Princeton, NJ: Princeton University Press.
- Björklund, A., K.G. Salvanes (2010). Education and Family Background: Mechanisms and Policies. In: E.A. Hanushek, S. Machin, L. Woessmann (eds.), *Handbook of the Economics of Education*, Vol. 3: 201-247. Amsterdam: North Holland.
- Bloom, N., R. Lemos, R. Sadun, J. Van Reenen (2015). Does Management Matter in Schools. *Economic Journal*: forthcoming.
- Chetty, R., et al. (2011). How Does Your Kindergarten Classroom Affect Your Earnings? Evidence from Project STAR. *Quarterly Journal of Economics* 126 (4): 1593-1660.
- Chetty, R., J.N. Friedman, J.E. Rockoff (2014a). Measuring the Impacts of Teachers I: Evaluating Bias in Teacher Value-Added Estimates. *American Economic Review* 104 (9): 2593-2632.
- Chetty, R., J.N. Friedman, J.E. Rockoff (2014b). Measuring the Impacts of Teachers II: Teacher Value-Added and Student Outcomes in Adulthood. *American Economic Review* 104 (9): 2633-2679.

Swiss Leading House

Economics of Education, Firm Behaviour and Training Policies



Co-Director
Prof. Dr. Uschi Backes-Gellner

u^b

UNIVERSITÄT
BERN

Co-Director
Prof. Dr. Stefan C. Wolter

- Deming, D.J., J.S. Hastings, T.J. Kane, D.O. Staiger (2014). School Choice, School Quality and Postsecondary Attainment. *American Economic Review* 104 (3): 991-1013.
- Fairlie, R.W., J. Robinson (2013). Experimental Evidence on the Effects of Home Computers on Academic Achievement among Schoolchildren. *American Economic Journal: Applied Economics* 5 (3): 211-240.
- Fryer, R.G. Jr. (2011). Financial Incentives and Student Achievement: Evidence from Randomized Trials. *Quarterly Journal of Economics* 126 (4): 1755-1798.
- Fryer, R.G. Jr. (2014). Injecting Charter School Best Practices into Traditional Public Schools: Evidence from Field Experiments. *Quarterly Journal of Economics* 129 (3): 1355-1407.
- Fryer, R.G. Jr., W. Dobbie (2015). The Medium-Term Impacts of High-Achieving Charter Schools. *Journal of Political Economy*, forthcoming.
- Hanushek, E.A. (2002). Publicly Provided Education. In: A.J. Auerbach, M. Feldstein (eds.), *Handbook of Public Economics*, Vol. 4: 2045-2141. Amsterdam: North-Holland.
- Hanushek, E.A., S. Link, L. Woessmann (2013). Does School Autonomy Make Sense Everywhere? Panel Estimates from PISA. *Journal of Development Economics* 104: 212-232.
- Hanushek, E.A., S. Machin, L. Woessmann, eds. (2011). *Handbook of the Economics of Education*, Vol. 3+4. Amsterdam: North-Holland.
- Hanushek, E.A., S.G. Rivkin (2012). The Distribution of Teacher Quality and Implications for Policy. *Annual Review of Economics* 4: 131-157.
- Hanushek, E.A., G. Schwerdt, S. Wiederhold, L. Woessmann (2015). Returns to Skills around the World: Evidence from PIAAC. *European Economic Review* 73: 103-130.
- Hanushek, E.A., L. Woessmann (2008). The Role of Cognitive Skills in Economic Development. *Journal of Economic Literature* 46 (3): 607-668.
- Hanushek, E.A., L. Woessmann (2011). The Economics of International Differences in Educational Achievement. In: E.A. Hanushek, S. Machin, L. Woessmann (eds.), *Handbook of the Economics of Education*, Vol. 3: 89-200. Amsterdam: North Holland.
- Hanushek, E.A., L. Woessmann (2015). *The Knowledge Capital of Nations: Education and the Economics of Growth*. Cambridge, MA: MIT Press.
- Jackson, C.K., R.C. Johnson, C. Persico (2015). The Effects of School Spending on Educational and Economic Outcomes: Evidence from School Finance Reforms. *Quarterly Journal of Economics*: forthcoming.
- Lavy, V. (2010). Effects of Free Choice among Public Schools. *Review of Economic Studies* 77 (3): 1164-1191.
- Lavy, V. (2015). Teachers' Pay for Performance in the Long-Run: Effects on Students' Educational and Labor Market Outcomes in Adulthood. NBER Working Paper 20983. Cambridge, MA: National Bureau of Economic Research.
- Metzler, J., L. Woessmann (2012). The Impact of Teacher Subject Knowledge on Student Achievement: Evidence from Within-teacher Within-student Variation. *Journal of Development Economics* 99 (2): 486-496.
- Muralidharan, K., V. Sundararaman (2011). Teacher Performance Pay: Experimental Evidence from India. *Journal of Political Economy* 119 (1): 39-77.
- Muralidharan, K., V. Sundararaman (2015). The Aggregate Effect of School Choice: Evidence from a Two-Stage Experiment in India. *Quarterly Journal of Economics* 130 (3): 1011-1066.
- Pekkala Kerr, S., T. Pekkarinen, R. Uusitalo (2013). School Tracking and Development of Cognitive Skills. *Journal of Labor Economics* 31 (3): 577-602.
- Rivkin, S.G., E.A. Hanushek, J.F. Kain (2005). Teachers, Schools, and Academic Achievement. *Econometrica* 73 (2): 417-458.
- Rockoff, J., D. Staiger, T.J. Kane, E. Taylor (2012). Information and Employee Evaluation: Evidence from a Randomized Intervention in Public Schools. *American Economic Review* 102 (7): 3184-3213.
- Schlotter, M., G. Schwerdt, L. Woessmann (2011). Econometric Methods for Causal Evaluation of Education Policies and Practices: A Non-Technical Guide. *Education Economics* 19 (2): 109-137.

Swiss Leading House

Economics of Education, Firm Behaviour and Training Policies



Co-Director
Prof. Dr. Uschi Backes-Gellner

u^b

Co-Director
Prof. Dr. Stefan C. Wolter

UNIVERSITÄT
BERN

Schwerdt, G., D. Messer, L. Woessmann, S.C. Wolter (2012). The Impact of an Adult Education Voucher Program: Evidence from a Randomized Field Experiment. *Journal of Public Economics* 96 (7-8): 569-583.
West, M.R., L. Woessmann (2010). 'Every Catholic Child in a Catholic School': Historical Resistance to State Schooling, Contemporary Private Competition and Student Achievement across Countries. *Economic Journal* 120 (546): F229-F255.

Target audience and preconditions for participation

The course is particularly designed for doctoral students in economics of education. Doctoral students in economics or business economics with a strong interest in microeconomic foundations of economics of education are welcome as well.

Credit requirements and grading

1. Full course attendance is required to receive ECTS-Points. Students are expected to come prepared to the course. It will facilitate discussions and improve overall learning.
2. Presentation in class.
3. Individual take-home exam.

Application

The number of participants is limited. Course registration **until August 23rd, 2015**, is mandatory. Please send your application (including a one-page CV) to curdin.pfister@business.uzh.ch.

WWF Statutory Course Policies

According to WWF study regulations, all exam dates are final as published in the VVZ and syllabus. This means that the final exam date is not negotiable. It will not be possible to take any exams on different dates.

Academic dishonesty in any form will not be tolerated. Anyone caught cheating or engaging in unethical behavior will be reported to the Dean's office according to the guidelines on academic dishonesty set forth by the University of Zurich.

The information in this syllabus supports the official information in the electronic university registration tool (VVZ – Vorlesungsverzeichnis). In cases of doubt, the official information at the VVZ is decisive.

For UZH students: Don't forget to officially register using the registration tool of the University of Zurich.