The Economics of Education
Econ 325, University of Michigan, Winter 2016
TuTh 8:30 – 10am, 142 Lorch Hall

Instructor: Adam Stevenson
adamstev@umich.edu

Office Hours: Lorch Hall, room 154, from 10:10-11:30am Wed, and other times by appointment.

GSI: Daniel Hubbard office, and OHs tba

Website: I maintain a Canvas site for this course. It contains lecture notes, homework assignments and answers, old exams, and all required readings. Scores of all assignments will be posted. We will also be using M+Box (which is integrated into Canvas) for electronic submission of writing assignments.

Purpose
We study the economic approach to the analysis of education. This course is designed to increase your comfort in describing, modeling, and evaluating policy interventions. It will be is useful for students who want to have a firm background in one of the most important ongoing public policy arenas, and for educators who want to serve as better advocates for effective educational reform. The economic study of education is heavily empirical, so we will spend some time introducing the statistical tools most commonly used by economists, and we will spend large amounts of time discussing the state of the art of the evidence in favor of, and against, many current (and proposed) educational practices.

Prerequisites
You must have taken Econ 101 (Micro) in order to enroll in the class. Experience in statistics at the level of STATS 250 will be very very helpful, though it is not strictly required.

If you are an international student or a transfer student, consider taking one of the following courses concurrently with my course: Writing 340 (Advanced Writing for Multilingual Students: Vocabulary and Grammar in context) or Writing 350 (Excellence in Upper Level Writing).

Course Structure
Successful completion of this course (with a C- or better) satisfies Michigan’s ULWR requirement. As such, it has two intertwining structures.

The first structure serves to present the subject matter of the course. We start by discussing the demand side of education: the student’s path through the educational system, and the value derived therefrom. Next, we discuss the supply side: the school and its production choices. Then we discuss policy issues: systemic reform and the interaction between education, social mobility, and income inequality. This is the “stuff” we talk about throughout the class, and we will progress through each topic in turn.

The second structure serves to develop students as readers and writers. The assignments are designed to help you become a more critical thinker about economics, and the nature of the evidence it produces. They will build your confidence in interacting with primary sources – journal articles – so that you can judge for yourself “what works”. A thoughtful person must answer for themselves whether one model or another accurately describes the world, whether policies have the effect their advocates claim, and what practices and behaviors you yourself might choose to advocate. By the end of the class, you will summarize, synthesize and propose extensions of an active area of social research.

Required Readings
There is no textbook in this class. I pull readings from a number of sources, all of which are listed in the Topics and Readings section below. Every item listed in that section has been scanned in as a pdf file, and is posted on the CTools site. You should not have to buy any reading materials for this class, though you may want to invest in more paper and printer ink than usual.

**Attendance:**
I do not take attendance per se. There are a number of days where we either discuss or create “low stakes” writing assignments in class. These constitute a fairly substantial part of your grade, and they may not be submitted late. Failing to attend class on these days will serve as an automatic deduction from your grade. You are, of course, cheating yourself of a fuller understanding of important issues (issues that may appear on exams) by skipping class. Attendance is strongly recommended.

**Evaluation structure**
There are three major components to your grade:
- Exams: 50%
- Low-stakes writing: 15%
- Formal writing: 35%

Each of these components has multiple items. All items and their due dates are given in the calendar of assignments below. A fuller description of the writing assignments (and their purpose and evaluation standards) is posted in the “Assignment Descriptions” document on CTools. A fuller description of the term paper is given in the “Term Paper Description” document. A number of evaluation rubrics and feedback forms are posted as well, to give clear guidance about expectations.

**Exams**
(50% of total)
There are two in-class exams. These are non-cumulative and equally-weighted. Check your calendars immediately for any conflicts with these times. If you are unable to come to class on exam day, you should withdraw from the class. If you are unable for medical reasons to attend the exam you must inform me of your illness BEFORE the time of the exam, and you must fill out the official Economics Department verification form. A medical professional must attest that you are actually ill and unable to take the exam at the time it was administered. If you have an excused absence for the exam, I will waive your responsibility for taking it.

**Low-stakes writing**
(15% of total)
This is a catch-all term to indicate participation-based assignments that are designed to build your confidence in thinking like an economist, talking like an economist, and writing like an economist. All assignments in this category will be graded on a 0/1/2 basis, depending on if you made a “good faith effort” to participate. Points on low-stakes writing are assigned as follows:

- **2 points:** The assignment was done in a “good faith effort”.
- **1 point:** Assignment completed, but the work was insufficient. Depending on the assignment type, either (i) many questions, or important questions, were skipped, (ii) the writing is illegible or incoherent, or (iii) participation in discussion was minimal or counterproductive.
- **0 points:** Did not participate in the assignment.

The following assignment types are considered low-stakes:
- Three homework problem sets
- Three short “free writing” exercises (two of which are done at home and submitted with homework problem sets).
- Three low-stakes paper summaries
- Two peer feedback discussions
- One instructor meeting.
Formal writing (35% of total)
This category includes all writing assignments that contribute to the term paper (including, of course, the final product). The following assignment types are considered “formal”:

- Topic proposal
- Three paper summaries
- Synthesis and policy analysis
- Complete term paper.

The defining feature of the “formal writing” assignments is NOT that they are worth a lot of points – the first three bullets under this heading will be graded in a manner that’s very similar to the low-stakes writing. The defining characteristic of the formal writing is that you will get detailed feedback on each item, and you are expected to revise your writing based on this feedback. The revisions of these submissions will then be combined and edited down into your complete term paper. The completed term paper itself is worth 25% of your overall grade (i.e., the same value as an exam, and about 70% of your “formal writing” points).

Misc. Rules:

**Electronic Devices**: Silence your cell phones, pagers, and whatever else you have that makes noise. Despite what you may think, it is very obvious when you’re watching YouTube in class. Please consume your (non-course-related) media elsewhere – it’s distracting to me, and to your peers around you. I reserve the right to ban all laptops from the class if this becomes an issue.

**Students with Disabilities**: If you need alternate exam or writing accommodations due to a disability, you must submit your official SSD accommodations form to Dr. Stevenson at least 2 weeks before the first exam.

**Calculators**: There will be numerical questions on the exams. You will want to use a scientific calculator on the exams, but you may only use ones that are non-programmable. This rule excludes the use of most graphing calculators – the graphing functions will never be useful, and the incentive to use them to cheat is too great. You may NOT use your cell phones, Blackberries, PDAs, or any other multi-purpose electronic devices for their calculator functions. Single-line calculators are preferable.

**E-etiquette**: I will delete, without responding, any email that does not include at least, an indication of who is writing, the purpose of the email in the title (including the fact that it’s for the course Econ 325) and some semblance of the proper format (a rubric that includes reasonable attempts at spelling and the proper use of the shift and caps lock keys). In the real world, people do not take this kind of communication seriously, and I certainly do not, so please refrain.

**Academic Misconduct and Plagiarism**: I follow Economics Department policy with respect to academic integrity. This means that if I suspect you of plagiarism, cheating on exams, or any other academic dishonesty in any of your work, I will notify you of such. Absent a compelling explanation, your name will be forwarded to the Dean of Student Affairs for adjudication. If your academic misconduct is “documented” by the Dean, then you will automatically fail the entire course (in addition to any University punishments assigned by the Dean). While I very much encourage students to study and prepare for class together, I expect that all work submitted is the student’s own. There is to be NO collaboration (outside of classroom feedback sessions) on the formal writing assignments.

**Assignment schedule**
<table>
<thead>
<tr>
<th>Week of</th>
<th>Tuesday</th>
<th>Thursday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 6</td>
<td>WINTER BREAK</td>
<td></td>
</tr>
<tr>
<td>Jan 11</td>
<td></td>
<td>Low-stakes paper report 1: Avery and Turner summary &amp; discussion</td>
</tr>
<tr>
<td>Jan 18</td>
<td>Homework problem set 1: Private value of education problems and free write</td>
<td></td>
</tr>
<tr>
<td>Jan 25</td>
<td>Homework problem set 2: Estimation</td>
<td><strong>In-class</strong>: informal paper topic proposal peer feedback discussion <strong>At home</strong>: M+Box setup assignment</td>
</tr>
<tr>
<td>Feb 1</td>
<td>Low-stakes paper report 2: Winston summary &amp; discussion</td>
<td>Formal writing: proposal and motivation</td>
</tr>
<tr>
<td>Feb 8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feb 15</td>
<td>Homework problem set 3: Production theory problems and free write</td>
<td>Low-stakes paper report 3: Carrell &amp; Hoekstra summary &amp; discussion</td>
</tr>
<tr>
<td>Feb 22</td>
<td>EXAM 1</td>
<td></td>
</tr>
<tr>
<td>Feb 29</td>
<td>NO CLASS: SPRING BREAK</td>
<td></td>
</tr>
<tr>
<td>Mar 7</td>
<td></td>
<td>Formal writing: paper summary 1</td>
</tr>
<tr>
<td>Mar 14</td>
<td></td>
<td>Formal writing: paper summary 2</td>
</tr>
<tr>
<td>Mar 21</td>
<td></td>
<td>Formal writing: paper summary 3</td>
</tr>
<tr>
<td>Mar 28</td>
<td><strong>In-class</strong>: informal synthesis and conclusions peer feedback discussion</td>
<td></td>
</tr>
<tr>
<td>Apr 4</td>
<td>Formal writing: Synthesis and policy analysis</td>
<td><strong>In-class</strong>: Free write on higher education’s role in social inequality</td>
</tr>
<tr>
<td>Apr 11</td>
<td>EXAM 2</td>
<td>Instructor meetings</td>
</tr>
<tr>
<td>Apr 18</td>
<td>Instructor meetings</td>
<td>Instructor meetings</td>
</tr>
<tr>
<td>April 25:</td>
<td>Paper due by Monday at 10am</td>
<td></td>
</tr>
</tbody>
</table>

**Topics and Readings schedule:**
A fuller list of the papers from which I drew my lectures (which may be taken as a “recommended reading” list) is available, upon request.

What follows is a day-to-day breakdown of classroom coverage and the required readings for each day. The exact timetable may change as topics take more or less time to cover, and I will notify you ASAP when such adjustments become necessary. It is always possible (and strongly recommended) that you read ahead.

**SECTION 1: The “Demand Side” of Education**

**Topic 1: The theory of private returns to education.**

Tues, Jan 12: Human Capital Theory


Thurs, Jan 14: Signaling theory of education, and other market values

**Topic 2: Measurement in economics and policy analysis**

Tues, Jan 19: Linear Regression


Thurs, Jan 21: Causal Inference


Tues, Jan 26: The causal effect of education on earnings


**SECTION 2: The “Supply Side” of Education**

**Topic 3: Educational finance**

Thur, Jan 28: The public finance of primary and secondary education

Tues, Feb 2: The finance of post-secondary education


**Topic 4: Educational production.**

Thurs, Feb 4: Fin of PS ed, cont’d, intro to theory of educational production


Tues, Feb 9: The theory of educational production

Thurs, Feb 11: Does money matter?


**Topic 5: Inputs of educational production**

Tues, Feb 16: Class size as an educational input


Thurs, Feb 18: Peer effects in education

Thur, Feb 25: The market for teachers: teacher characteristics and student achievement
Student Achievement of Teacher’s Characteristics,” Education Next 2(1), pp. 76-82.
http://educationnext.org/the-mystery-of-good-teaching/
Clotfelter, Charles T., Helen F. Ladd, and Jacob L. Vigdor 2007, “Teacher credentials
and student achievement: longitudinal analysis with student fixed effects” Economics
of Education Review 26(6), 673-682.

SECTION 3: Policy Issues

Topic 6: Educational reform: Accountability policy
Tues Mar 8: Accountability background theory
2nd (or 3rd) edition, Addison-Wesley.
Thur, Mar 10: Accountability evidence
http://educationnext.org/evaluating-nclb/
909-949.

Topic 7: Educational reform: School Choice.
Tues, Mar 15: School choice background and theory
McEwan, Patrick, 2000. pp. 103-107 and 123-125 of “The Potential Impact of Large-
Scale Voucher Programs,” Review of Educational Research 70(2), pp. 103-149.
Thur, Mar 17: School choice evidence
Perspectives 16(4), pp. 3-24.

Topic 8: Equality of access to a high-quality education
Tues, Mar 22: Early childhood education
Capital Policy,” NBER working paper w9495 (also in the book ‘Inequality in
America” by Heckman and Krueger)
Entrance Age and Children’s Achievement: Impacts of State Policies, Family
Background, and Peers,” The Journal of Human Resources 44(3).
Thur, Mar 24: The production and private value of college quality
Hoxby, Caroline, 2001. “The Return to Attending a More Selective College,” Ch. 2,
Exploring the Future of Higher Education, 2000, Maureen Devlin and Joel Meyerson,
eds., Jossey-Bass Inc.

**Topic 9: Education and social mobility.**

Thur, Mar 31: Family background, education, and social mobility


Tues, Apr 5: Financial Aid as a tool of equal opportunity


Thurs, Apr 7: American inequality: education and technology
