

**University of Florida**  
**College of Public Health & Health Professions Syllabus**  
**HSA6436: Health Economics (3 credit hours)**  
 Spring: 2017  
 Delivery Format: On-Campus

**Instructor Name: Ashish A. Deshmukh, PhD, MPH**  
**Course Hours and Location: Tuesday 9:35-11:30 & Thursday 10:40-11:30 in G210**  
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**Email Address: [adeshmukh@phhp.ufl.edu](mailto:adeshmukh@phhp.ufl.edu)**  
**Office Hours: By appointment**  
**Teaching Assistant: Young-Rock Hong, MPH**  
**Preferred Course Communications (e.g. email, office phone): email**

### Prerequisites

None

## PURPOSE AND OUTCOME

### Course Overview

This course is intended to give you an understanding of and appreciation for the traditional issues in health economics. The topics to be covered are: the role of prices, the production of health, the demand for health care, health insurance theory, the demand for health insurance, the health insurance market and managed care, the market for physicians' services, production and cost of health care in hospitals and nursing homes, labor issues, pharmaceuticals, cost effectiveness analysis, equity and efficiency, role of government in the health economy, international comparisons, Medicaid and Medicare, and national health insurance and reform. Note that this course is designed to provide you with the knowledge of fundamental principles of economic concepts and evaluation methods. This knowledge is intended to be applied in future coursework.

The course is an introduction to health economics and does not require a previous knowledge of economics. You will not be expected to know calculus.

### Relation to Program Outcomes

<u>Targeted Competencies</u>	<u>Evaluation</u>
Perform Environmental scans and needs assessment in support of program and organizational development	Presentation, final paper
Interpret, monitor and comply with laws and regulations that protect health practitioners, organizations, and the public	Presentation, final paper, quizzes, in-class exercise
Apply general and health economics concepts and show demonstrated competence with analyses of pricing, service demand, and risk.	Presentation, final paper, quizzes, in-class exercise

### Course Objectives and/or Goals

Upon completion of the course, students should complete the following objectives:

1. Understand current health economics issues, their historical origins, and their development.

2. Analyze health economics problems using rudimentary tools and show examples of how these tools are used by economists to analyze specific issues.
3. Appreciate the trade-offs inherent in almost all policy solutions.
4. Recognize the shortcomings and criticisms of the various models used to analyze the key health economics issues.

### Instructional Methods

Lecture with class discussion

## DESCRIPTION OF COURSE CONTENT

### Topical Outline/Course Schedule

Week	Date(s)	Topic(s)	Readings
1	1/5	Introductions and Overview	Santerre and Neun, Chapter 1.
2	1/10		<p>Wells DA, Ross JS, Detsky AS. "What is Different About the Market for Health Care?", <i>JAMA</i> vol. 298, no. 23, December 19, 2007, pp. 2785-2787.</p> <p>Hartman M, Martin AB, Lassman D, Catlin A, and the National Health Expenditure Accounts Team. "National Health Spending in 2013: Growth Slows, Remains in Step with the Overall Economy", <i>Health Affairs</i> vol. 34, no. 1, January 2015, pp. 1-11.</p>
2	1/12	Economic Evaluation in Health Care: Overview	<p>Santerre and Neun, Ch. 3.</p> <p>O'Brien B (1995). Principles of Economic Evaluation for Health Care Programs. <i>J Rheumatol</i> 22:1399-1402</p> <p>Reinhardt UE. 'Cost-Effectiveness Analysis' and U.S. Health Care. <i>The New York Times</i>. March 13, 2009  <a href="http://economix.blogs.nytimes.com/2009/03/13/cost-effectiveness-analysis-and-us-health-care/?_r=0">http://economix.blogs.nytimes.com/2009/03/13/cost-effectiveness-analysis-and-us-health-care/?_r=0</a></p> <p>Freakonomics Podcast: Are you ready for a glorious sunset?  <a href="http://freakonomics.com/podcast/are-you-ready-for-a-glorious-sunset-a-new-freakonomics-radio-episode">http://freakonomics.com/podcast/are-you-ready-for-a-glorious-sunset-a-new-freakonomics-radio-episode</a></p>
3	1/17	Cost-effectiveness analysis (CEA) and Cost-utility analysis (CUA)	Karlsson, G. and M. Johannesson (1996). "The decision rules of cost-effectiveness analysis." <i>Pharmacoeconomics</i> 9(2): 113-120.
3	1/19		<p>Black, W. C. (1990). "The CE plane: a graphic representation of cost-effectiveness." <i>Med Decis Making</i> 10(3): 212-214.</p> <p>Nyman J., et al. (2007). Quality of Life Weights for the U.S. Population: Self Reported Health Status and Priority Health Conditions, by Demographic Characteristics. <i>Medical Care</i> 45(7) 618-628.</p> <p>Green, C., Brazier, J. &amp; Deverill, M. (2000). Valuing Health-Related Quality of Life: A Review of Health State Valuation Techniques. <i>Pharmacoeconomics</i> 17(2)151-165.</p>

Week	Date(s)	Topic(s)	Readings
4	1/24	Methods for CEA and CUA: Applications and In Class Exercise	<p>Chen A, Deshmukh AA, Richards-Kortum R, Molyneaux E, Kawaza K, Cantor SB. Cost-effectiveness of a neonatal bubble CPAP device in Malawi. 2014. <i>BMC Pediatrics</i>.</p> <p>O'Brien, B. J., S. J. Connolly, et al. (2001). "Cost-effectiveness of the implantable cardioverter-defibrillator: results from the Canadian Implantable Defibrillator Study (CIDS)." <i>Circulation</i> 103(10): 1416-1421</p> <p>Deshmukh AA, Chiao EY, Das P, Cantor SB. Cost-effectiveness analysis of vaccinating HIV-negative men who have sex with men in prevention of recurrent high-grade anal intraepithelial neoplasia. 2014. <i>Vaccine</i>, 32: 6941–6947</p>
4	1/26	Economic Evaluation in Health Care	<b>In class assignment</b>
5	1/31	The Production of Health	<p>Santerre and Neun, Chapter 2 plus Appendix 2.</p> <p>Fuchs, Victor R. "Who Shall Live?" Chapter 2 in <u>Who Shall Live?</u> New York: Basic Books, 1974, pp. 30-55.</p> <p>(Optional) Grossman, Michael. "On the Concept of Health Capital and the Demand for Health," <u>Journal of Political Economy</u> vol. 80, 1972, pp. 223-255.</p>
5	2/2	Prices in the Medical Sector	<p>Anderson GF, Reinhardt UE, Hussey PS, Petrosyan V. "It's the Prices, Stupid: Why the United States Is So Different From Other Countries," <u>Health Affairs</u> vol. 22, no. 3, May/June 2003, pp. 89-105.</p> <p>Laugesen MJ, Glied SA. "Higher Fees Paid to US Physicians Drive Higher Spending for Physician Services Compared to Other Countries," <u>Health Affairs</u> vol. 30, no. 9, September 2011, pp.1647-1656.</p>
6	2/7	Demand for Medical Care  Guest: Dr. Guzick	<p>Santerre and Neun, Ch. 5.</p> <p>Manning, Willard G., et al. "Health Insurance and the Demand for Medical Care: Evidence from a Randomized Experiment," <u>American Economic Review</u> vol. 77, no. 3, June 1987, pp. 251-277.</p> <p>(Optional) Arrow, Kenneth. "Uncertainty and the Welfare Economics of Medical Care," <u>American Economic Review</u> vol. 53, no. 3, 1963, pp. 941-973.</p>
6	2/9	Conventional Insurance Theory	<p>Santerre and Neun, Ch. 6, pp. 155-167.</p> <p>Friedman, Milton and L. J. Savage. "The Utility Analysis of Choices Involving Risk," <u>Journal of Political Economy</u> vol. 56, no. 4, August 1948, pp. 279-304.</p> <p>(Optional) Pauly, Mark. "The Economics of Moral Hazard: Comment," <u>American Economic Review</u> vol. 58, June 1968, 531-537.</p>

Week	Date(s)	Topic(s)	Readings
7	2/14	New Insurance Theory	<p>Santerre and Neun, Ch. 6, pp. 167-174.</p> <p>Gladwell, Malcolm, "The Moral-Hazard Myth," <u>The New Yorker</u> August 29, 2005.  <a href="http://www.newyorker.com/magazine/2005/08/29/the-moral-hazard-myth">http://www.newyorker.com/magazine/2005/08/29/the-moral-hazard-myth</a></p> <p>(Optional) Nyman, John A. "The Economics of Moral Hazard Revisited," <u>Journal of Health Economics</u> vol. 18, no. 5, December 1999, pp. 811-824.</p>
7	2/16	New Insurance Theory	<p>Miller, Wilhelmine, Elizabeth Richardson Vigdor, Willard G. Manning. "Covering the Uninsured: What Is It Worth?" <u>Health Affairs Web Exclusive</u>, 31 March, 2004, pp. W4157-W4167.</p> <p>Muennig, Peter, Peter Franks, Marthe Gold. "The Cost Effectiveness of Health Insurance," <u>American Journal of Preventive Medicine</u> vol.28 no. 1, January 2005, pp. 59-64.</p> <p>(Optional) Newhouse, Joseph P. "The Erosion of the Medical Marketplace," in <u>Advances in Health Economics and Health Services Research</u> vol. 2, ed. Richard Scheffler. Westport, CT: JAI Press, 1981.</p>
8	2/21	Market Models and Managed Care  Guest: Dr. Guzick	<p>Santerre and Neun, Ch. 8 (pp. 233-253).</p> <p>Cutler, David M., Mark McClellan, and Joseph P. Newhouse. "How Does Managed Care Do It?" <u>Rand Journal of Economics</u> vol. 31, no. 3, Autumn 2000, pp. 526-548</p>
8	2/21	The Private health Insurance Industry	<p>Santerre and Neun, Ch. 6, pp. 174-185, and Ch. 11.</p> <p>Miller, Robert H. and Harold Luft. HMO Plan Performance Update: An Analysis of the Literature, 1997-2001. <u>Health Affairs</u> vol. 21, no. 4, 2002, pp. 63-86.</p>
8	2/23	Physicians: Payment, Costs, and Induced Demand	<p>Santerre and Neun, Ch. 12, pp. 363-379.</p> <p>Labelle RL, Stoddart G, Rice T (1994). "A Re-Examination of the Meaning and Importance of Supplier-Induced Demand", <u>Journal of Health Economics</u>, 13:347-368</p> <p>Pauly MV (1994). "Editorial: A Re-Examination of the Meaning and Importance of Supplier-Induced Demand", <u>Journal of Health Economics</u>, 13:369-372</p> <p>Fuchs VR (1978) "The Supply of surgeons and the Demand for Operations". <u>Journal of Human Resources</u>, 13:Supplement, 35-36</p> <p><b>Project Proposal Due</b></p>

Week	Date(s)	Topic(s)	Readings
9	2/28	Physicians: Licensure, Advertising, and Price Discrimination	Santerre and Neun, Ch. 12, pp. 381-391.  (Optional) Friedman, Milton. "Occupational Licensure," <u>Capitalism and Freedom</u> . Chicago:University of Chicago Press, 1962, pp. 137-160.  (Optional) Kessel, Rubin A. "Price Discrimination in Medicine," <u>Journal of Law and Economics</u> vol. 1, no. 2, 1958, pp. 20-58.
9	3/2	Physicians: Small Area Variation	Santerre and Neun, Ch. 12, pp. 380-381  Fisher ES, Bynum JP, Skinner JS. "Slowing the Growth of Health Care Costs - Lessons from Regional Variation," <u>New England Journal of Medicine</u> vol. 360, no. 9, 2009, pp. 849-852.  Gawande, Atul. "Piecemeal." <u>The New Yorker</u> April 4, 2005. <a href="http://www.newyorker.com/magazine/2005/04/04/piecemeal">http://www.newyorker.com/magazine/2005/04/04/piecemeal</a>
3/7 & 3/9			SPRING BREAK – NO CLASS
10	3/14	Hospital Industry  Guest: Dr. Guzick	Horwitz, JR. Making Profits and Providing Care: Comparing Nonprofit, For-Profit, and Government Hospitals, <u>Health Affairs</u> , 24, no.3 (2005):790-801.  Newhouse, Joseph P. "Toward a Theory of Non-Profit Institutions: An Economic Model of a Hospital," <u>American Economic Review</u> vol. 60, no. 1, 1970, pp. 64-74.
10	3/16	Hospital Industry	Santerre and Neun, Ch 13  Frakt AB. How Much Do Hospitals Cost Shift? A Review of the Evidence. <u>The Milbank Quarterly</u> . 2011;89(1):90-130.
11	3/21	Labor Market Issues: Shortages, Surpluses, Monopsony, and the Shortage of Nurses	Buerhaus, Peter I., Douglas O. Staiger, David I. Auerbach. "Is the Current Shortage of Hospital Nurses Ending? <u>Health Affairs</u> vol. 22, no. 6, 2003, pp. 191-198.  Hirsch, Barry and Edward Schumacher. "Monopsony Power and Relative Wages in the Labor Market for Nurses," <u>Journal of Health Economics</u> vol. 14, 1995, pp. 443-476. [Focus on theory and empirical conclusions.]
11	3/23	Role of the Government	Vladeck B, Rice T. "Market Failure and the Failure of Discourse: Facing up to the Power of Sellers," <u>Health Affairs</u> , Vol. 28, no. 5, Sept/Oct 2009, pp. 1305-1315.  (Optional) Bator, Francis M. "The Anatomy of Market Failure," <u>Quarterly Journal of Economics</u> , August 1958, pp. 351-379.
12	3/28	Pharmaceuticals	Santerre and Neun, Ch. 14.  Anderson GM, Juurlink D, Detsky AS. Newly Approved Does Not Always Mean New and Improved. <u>JAMA</u> 2008;299;13
12 & 13	3/30 & 4/4	Student Presentations	
13	4/6	Student Presentations	
14	4/11	Student Presentations	
14	4/13	Student Presentations	

Week	Date(s)	Topic(s)	Readings
15	4/18	Student Presentations	
15	4/20		<b>No class</b>
16	4/25		<b>Final Paper Due</b>

## Course Materials and Technology

### Required Textbook

Santerre RE and Neun SP, Health Economics: Theories, Insights, and Industry Studies (6<sup>th</sup> Ed.) Thomson South-Western, 2012.

### Required Readings

Assigned journal articles and lecture notes are available on CANVAS. All listed readings are required unless otherwise noted. Students are expected to have read all required readings prior to each lecture and should understand the issues covered in each article.

For technical support for this class, please contact the UF Help Desk at:

- [Learning-support@ufl.edu](mailto:Learning-support@ufl.edu)
- (352) 392-HELP - select option 2
- <https://lss.at.ufl.edu/help.shtml>

## ACADEMIC REQUIREMENTS AND GRADING

### Assignments

Your grade will be based on your performance on quizzes (40%), an in-class exercise (5%), a project proposal (10%), a presentation of your project (10%), and a final paper (35%). There will be five quizzes during the semester and quizzes will take place at the beginning of the class period. The lowest quiz score will be dropped when calculating the final grade. If a student missed a quiz, then scores from the remaining four quizzes will be counted with no possibility of dropping the lowest score.

### Grading

Requirement	Due date	Points or % of final grade (% must sum to 100%)
In-class assignment	1/26	10%
Quizzes (4 out of 5)	Varies	40%
Project Proposal	2/23	10%
Presentation	varies	10%
Final Paper	4/25	30%

The main outcome of this course is the final paper. The final paper is a project on a topic to be selected by students and related to the material of the course. The purpose is for student to examine a health care issue from an economic perspective. It should include a review of the literature as well as a critical analysis.

The project proposal which is due on February 16 is meant to present the topic of the final paper. The project proposal should be a maximum of 2 double space pages and include the following:

- Aim of the project (1 point)
- Context: what is the issue and why is it important? (3 points)
- Economic theory (3 points)

- Expected outcome (2 points)
- Grammar, Spelling, and organization (1 point)

The presentation is a presentation of the student project which should last 10 minutes. The presentation will be graded as follows:

- Context: aim of the project, what is the issue and why is it important? (3 points)
- Economic theory and application to the issue (3 points)
- Findings and critical analysis (3 points)
- Oral presentation: clarity of the presentation, answers to questions (1 point)

The final paper is worth 35 points and will be graded as follow:

- Context: aim of the project, what is the issue and why is it important? (10 points)
- Economic theory and application to the issue (10 points)
- Findings and critical analysis (10 points)
- Paper organization, grammar and spelling (5 points)

Point system used (i.e., how do course points translate into letter grades).

<b>Points earned</b>	93-100	90-92	87-89	83-86	80-82	75-79	70-74	65-69	-	-	-	<65
<b>Letter Grade</b>	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E

Please be aware that a C- is not an acceptable grade for graduate students. In addition, a grade of C counts toward a graduate degree only if an equal number of credits in courses numbered 5000 or higher have been earned with an A.

You must include the letter grade to grade point conversion table below. Letter grade to grade point conversions are fixed by UF and cannot be changed.

<b>Letter Grade</b>	<b>A</b>	<b>A-</b>	<b>B+</b>	<b>B</b>	<b>B-</b>	<b>C+</b>	<b>C</b>	<b>C-</b>	<b>D+</b>	<b>D</b>	<b>D-</b>	<b>E</b>	<b>WF</b>	<b>I</b>	<b>NG</b>	<b>S-U</b>
<b>Grade Points</b>	4.0	3.67	3.33	3.0	2.67	2.33	2.0	1.67	1.33	1.0	0.67	0.0	0.0	0.0	0.0	0.0

For greater detail on the meaning of letter grades and university policies related to them, see the Registrar's Grade Policy regulations at:

<http://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

### Exam Policy

All exams will take place in-class during the scheduled class times as indicated on the syllabus.

### Policy Related to Make up Exams or Other Work

There will be **no** makeup quizzes except for extreme circumstances (e.g. admitted to hospital) with valid evidence of the extreme circumstance.

### Policy Related to Required Class Attendance

Students are expected to attend and participate in all class sessions and be in attendance prior to the beginning of the class period. Students should inform the instructor if they will miss a class. Personal issues with respect to class attendance or fulfillment of course requirements will be handled on an individual basis.

All faculty are bound by the UF policy for excused absences. For information regarding the UF Attendance Policy see the Registrar website for additional details:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

## STUDENT EXPECTATIONS, ROLES, AND OPPORTUNITIES FOR INPUT

### Expectations Regarding Course Behavior

Students are expected to have read all required readings prior to each lecture and should understand the issues covered in each article.

### Communication Guidelines

Students are expected to participate in class discussions. Cellphones must be turned off and put away during class time. Laptops are allowed for taking notes only.

### Academic Integrity

Students are expected to act in accordance with the University of Florida policy on academic integrity. As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge:

**“We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.”**

You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied:

**“On my honor, I have neither given nor received unauthorized aid in doing this assignment.”**

It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For additional information regarding Academic Integrity, please see Student Conduct and Honor Code or the Graduate Student Website for additional details:

<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>  
<http://gradschool.ufl.edu/students/introduction.html>

Please remember cheating, lying, misrepresentation, or plagiarism in any form is unacceptable and inexcusable behavior.

### Online Faculty Course Evaluation Process

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

## SUPPORT SERVICES

### Accommodations for Students with Disabilities

If you require classroom accommodation because of a disability, you must register with the Dean of Students Office <http://www.dso.ufl.edu> within the first week of class. The Dean of Students Office will provide documentation of accommodations to you, which you then give to me as the instructor of the course to receive accommodations. Please make sure you provide this letter to me by the end of the second week of the course. The College is committed to providing reasonable accommodations to assist students in their coursework.

### Counseling and Student Health

Students sometimes experience stress from academic expectations and/or personal and interpersonal issues that may interfere with their academic performance. If you find yourself facing issues that have the potential to or are already negatively affecting your coursework, you are encouraged to talk with an instructor and/or seek help through University resources available to you.



- The Counseling and Wellness Center 352-392-1575 offers a variety of support services such as psychological assessment and intervention and assistance for math and test anxiety. Visit their web site for more information: <http://www.counseling.ufl.edu>. On line and in person assistance is available.
- You Matter We Care website: <http://www.umatter.ufl.edu/>. If you are feeling overwhelmed or stressed, you can reach out for help through the You Matter We Care website, which is staffed by Dean of Students and Counseling Center personnel.
- The Student Health Care Center at Shands is a satellite clinic of the main Student Health Care Center located on Fletcher Drive on campus. Student Health at Shands offers a variety of clinical services. The clinic is located on the second floor of the Dental Tower in the Health Science Center. For more information, contact the clinic at 392-0627 or check out the web site at: <https://shcc.ufl.edu/>
- Crisis intervention is always available 24/7 from:  
Alachua County Crisis Center  
(352) 264-6789  
<http://www.alachuacounty.us/DEPTS/CSS/CRISISCENTER/Pages/CrisisCenter.aspx>

Do not wait until you reach a crisis to come in and talk with us. We have helped many students through stressful situations impacting their academic performance. You are not alone so do not be afraid to ask for assistance.

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