

# POPHLTH795: Principles of Population Health Sciences (002)

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Professor Dave Vanness

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## Overview

Despite innovations in medical technology that would have been considered science fiction just 50 years ago and despite allocating about one-fifth of our nation's annual economic activity to health services and related activities, population health in the United States is far below its potential and lags much of the developed world. This course introduces students to the field of "Population Health Science" – the multidisciplinary study of why populations are healthy (or not), and perhaps more importantly, how we can allocate our limited resources across the multiple determinants of health to best improve population health. Central to the definition of population health is the understanding that measures of "average" health outcomes in a population only tell part of the story. Two populations that are equally healthy "on average" may have very different levels of variation within each. When variation in health within a population is explained by race and socioeconomic status over and above differences in predisposing biological factors (such as genetics or age), such differences are disparities.

This course will begin with a brief introduction to the fundamental concepts and conceptual frameworks of population health science. We will then explore several of the multiple determinants of population health with guidance from expert faculty from across campus. We will not spend much time discussing the etiology of specific diseases. Rather, this course is meant to complement other offerings in Population Health Sciences (e.g., PHS 794: Biological Basis of Population Health and PHS 797: Introduction to Epidemiology) that cover those topics. Instead, we will focus on socioeconomic, behavioral, cultural, community and health care-related determinants of population health across the life course.

For students continuing in the 3-credit PHS 795 (-002) course, we introduce the basic microeconomic concepts of utility, opportunity cost, optimization and social welfare analysis, and learn to use those concepts to achieve a better understanding of individual health-seeking behavior as well as the functioning of the market for health insurance. We conclude with a brief introduction to health care policy – both the principles for how policy is evaluated and the political process under which policy is made. This material aims to introduce students to concepts they can pursue in more depth through future courses (e.g., PHS 796: Introduction to Health Services Research, PHS 703: Quality of Health Care – Evaluation and Assurance, PHS 875: Assessment of Medical Technologies and PHS 709: Translational and Outcomes Research in Health and Health Care).

## Course Objectives

By the end of this course, students should be able to:

1. Demonstrate basic understanding and application of principles of Population Health Sciences in characterizing the multiple determinants of health and the optimal allocation of resources across those determinants for the improvement of health and reduction of disparities;
2. Demonstrate basic understanding and application, at a basic level, of the principles of microeconomic theory relating to human and institutional decisions in the allocation of scarce resources for the production of health at individual, system and population levels; (3 credit section only)

3. Demonstrate basic understanding of the role of socioeconomic status, behavior, culture and community on the production of health at individual and population levels;
4. Demonstrate basic understanding and application of the principles of population health measurement and its role in the design of health services, policy, intervention and evaluation;
5. Demonstrate basic understanding of the historical and current financing and provision of health care services in the United States and its shaping by the policy process. (3 credit section only)

## Evaluation of Students

### Exams

There will be three written examinations (weighted as follows for 3-credit students):

- 30% Exam 1: (In-class 10/26)\*
- 30% Exam 2: (Take home assigned 11/28 and due 12/5 before 11:00 pm)\*\*
- 40% Exam 3: (Take home assigned 12/12 and due 12/20 before 11:00 pm)\*\*

\*Counts 100% for one-credit students; \*\*Three-credit students only

Take-home exams may be discussed among students, but each student must submit their own unique work. Take-home exams received after the deadline will be penalized 10% (up to 8 hours late) plus 20% per day after that. Except in case of emergency, requests for accommodation must be made 24 hours before the exam deadline.

### Grade Ranges

- 90-100                    A
- 85-89                    AB
- 80-84                    B
- Below 80                BC
- Missed evaluation      F

### Course Blog

Through regular participation in the course blog [fantasyequation.wordpress.com](http://fantasyequation.wordpress.com), students may earn up to 5 bonus percentage points to be added to their final grade: one point per main page post or comment thread in which the student is meaningfully engaged. To submit a main page post, students should identify a news item or recently published journal article and write a 4-6 sentence lead-in relating the item to the principles of population health science and send the post to me at [dvanness@wisc.edu](mailto:dvanness@wisc.edu) (<mailto:dvanness@wisc.edu>). Students may request anonymity in their main page posts and comments. Students are responsible for emailing me a summary report identifying main page posts and comments for which they expect to receive credit (due 11/7 for one-credit students; 12/22 for three-credit students).

### Logistics

- Lectures will be held on Tuesdays and Thursdays from 11:00 am to 12:15 pm in HSLC 1345.
- Lecture capture will be available at <http://videos.med.wisc.edu> (<http://videos.med.wisc.edu>) under the LECTURES tab.
- Office hours by appointment.
- No textbook is required. All readings will be available online, through Ebling Library electronic reserves and

### Accommodations

***The University of Wisconsin-Madison supports the right of all enrolled students to a full and equal educational opportunity. The Americans with Disabilities Act (ADA), Wisconsin State Statute (36.12), and UW-Madison policy (Faculty Document 1071) require that students with disabilities be reasonably accommodated in instruction and campus life. Reasonable accommodations for students with disabilities is a shared faculty and student responsibility. Students are expected to inform me of their need for instructional accommodations by the end of the third week of the semester, or as soon as possible after a disability has been incurred or recognized. I will work either directly with you or in coordination with the***

**McBurney Center to identify and provide reasonable instructional accommodations. Disability information, including instructional accommodations as part of a student's educational record, is confidential and protected under FERPA.**

Date	<u>Lecture Topic and Readings</u>	Lecturer
9/7/2017	<p><u>Lecture 1: What is Population Health?</u></p> <p>Kindig D, Stoddart G. What Is Population Health? Am J Public Health. 2003;93(3):380-383.</p> <p>Evans R, Stoddart G. Producing health, consuming health care. Social Science &amp; Medicine. 1990;31(12):1347-1363.</p> <p>Diez Roux AV. On the Distinction—or Lack of Distinction—Between Population Health and Public Health. American journal of public health. 2016 Apr; 106(4):619-20.</p>	Vanness
9/12/2017	<p><u>Lecture 2: Measuring Population Health</u></p> <p>Remington PL, Booske BC. Measuring the Health of Communities—How and Why? Journal of Public Health Management and Practice. 2011;17(5):397-400.</p> <p>Parrish RG. Measuring Population Health Outcomes. Prev Chronic Dis. 2010;7(4). Available at: <a href="http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2901569/">http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2901569/</a> (<a href="http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2901569/">http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2901569/</a>).</p> <p>Gold MR, Stevenson D, Fryback DG. HALYS AND QALYS AND DALYS, OH MY: Similarities and Differences in Summary Measures of Population Health. Annual Review of Public Health. 2002;23(1):115-134.</p>	Vanness
9/14/2017	<p><u>Lecture 3: Socioecological Models of Population Health</u></p> <p><i>NOTE: This lecture will be in a “flipped” format. You will be expected to read all readings and watch a pre-recorded lecture by Prof. Martinez-Donate before coming to class. We will then use class time for in-depth discussion.</i></p> <p>Stokols D. Translating Social Ecological Theory into Guidelines for Community Health Promotion. American Journal of Health Promotion 1996;10(4):282-298.</p> <p>Hruschka DJ. Culture as an explanation in population health. Ann Hum Biol 2009;36(3):235-247.</p>	Martinez-Donate /Vanness
9/19/2017	<p><u>Lecture 4: Socioeconomic Status, Poverty and Health Disparities</u></p> <p>Wolfe B, Evans W, Seeman TE. Biological Consequences of Socioeconomic Inequalities, Russell Sage Foundation; 2012.</p> <p>Hanson JL, Hair N, Shen DG, Shi F, Gilmore JH, Wolfe BL, et al. (2013) Family Poverty Affects the Rate of Human Infant Brain Growth. PLoS ONE 8(12): e80954. doi:10.1371/journal.pone.0080954</p> <p><i>Case A, Lubotsky D, Paxson C. Economic Status and Health in Childhood: The Origins of the Gradient. National Bureau of Economic Research; 2001. (SKIM ONLY)</i></p>	Wolfe

Date	Lecture Topic and Readings	Lecturer
9/21/2017	<p><u>Lecture 5: Biopsychosocial Determinants of Health and Disparities</u></p> <p>Jenkins R, Bhugra D, Bebbington P, et al. Debt, income and mental disorder in the general population. <i>Psychological Medicine</i> 2008;38(10).</p> <p>Mani A, Mullainathan S, Shafir E, Zhao J. Poverty Impedes Cognitive Function. <i>Science</i> 2013;341(6149):976-980. doi:10.1126/science.1238041.</p> <p>Sapolsky R. Sick of Poverty. <i>Scientific American</i> 2005;293(6):92-99.</p> <p>Seery MD, Holman EA, Silver RC. Whatever does not kill us: Cumulative lifetime adversity, vulnerability, and resilience. <i>Journal of Personality and Social Psychology</i> 2010;99(6):1025-1041.</p> <p>Skim Only:</p> <p><i>Miller G, Chen E, Cole SW. Health Psychology: Developing Biologically Plausible Models Linking the Social World and Physical Health. Annual Review of Psychology 2009;60(1):501-524.</i></p> <p><i>Sterling P. Principles of allostasis: optimal design, predictive regulation, pathophysiology, and rational therapeutics. Allostasis 2004.</i></p>	Creswell
9/26/2017	<p><u>Lecture 6: Place as a Determinant of Health and Disparities</u></p> <p>Gustafsson, San Sebastian, Janiert et al. 2014. "Life-course accumulation of neighborhood disadvantage and allostatic load: Empirical integration of three social determinants of health frameworks." <i>AJPH</i> 104 (5): 904-910</p> <p>Acevedo-Garcia et al. 2008. "Toward a policy-relevant analysis of geographic and racial/ethnic disparities in child health." <i>Health Affairs</i> 27(2): 321-333.</p>	Robert
9/28/2017	<p><u>Lecture 7: Aging and Cognitive Health: Determinants and Disparities</u></p> <p>Lyu J and Burr JA. Socioeconomic Status Across the Life Course and Cognitive Function Among Older Adults: An Examination of the Latency, Pathways, and Accumulation Hypotheses. <i>J Aging Health</i> 2016; 28(1): 40-67</p> <p>Zajacova A, Montez JK and Herd P. Socioeconomic Disparities in Health Among Older Adults and the Implications for the Retirement Age Debate: A Brief Report. <i>J Gerontol B</i> 2014; doi: 10.1093/geronb/gbu41</p>	Zuelsdorff
10/3/2017	<p><u>Lecture 8: Determinants of Health Across the Lifecourse</u></p> <p>Barker, D. J., and C. Osmond. 1986. 'Infant mortality, childhood nutrition, and ischaemic heart disease in England and Wales', <i>Lancet</i>, 1: 1077-81.</p> <p>Kuh, D., Y. Ben-Shlomo, J. Lynch, J. Hallqvist, and C. Power. 2003. 'Life course epidemiology', <i>J Epidemiol Community Health</i>, 57: 778-83.</p> <p>Power, C., D. Kuh, and S. Morton. 2013. 'From developmental origins of adult disease to life course research on adult disease and aging: insights from birth cohort studies', <i>Annu Rev Public Health</i>, 34: 7-28.</p>	Ehrenthal

<b>Date</b>	<b><u>Lecture Topic and Readings</u></b>	<b>Lecturer</b>
10/5/2017	<p><u>Lecture 9: Community Health Interventions</u></p> <p>Koepsell TD, Wagner EH, Cheadle AC, et al. Selected methodological issues in evaluating community-based health promotion and disease prevention programs. <i>Annual review of public health</i> 1992;13(1):31–57.</p> <p>Merzel C, D’Afflitti J. Reconsidering Community-Based Health Promotion: Promise, Performance, and Potential. <i>Am J Public Health</i> 2003;93(4):557-574.</p>	Remington
10/10/2016	<p><u>Lecture 10: Determinants of Sexual &amp; Reproductive Health</u></p> <p>Higgins JA, Smith NK. The sexual acceptability of contraception: reviewing the literature and building a new concept. <i>The Journal of Sex Research</i>. 2016 May 3;53(4-5):417-56.</p>	Higgins
10/12/2017	<p><u>Lecture 11: Population Health Perspectives on the Opioid Crisis in the United States</u></p> <p>Lasser KE. Prescription Opioid Use Among US Adults: Our Brave New World. <i>Annals of Internal Medicine</i>. 2017 Sep 5;167(5):351-2.</p> <p>Han B, Compton WM, Blanco C, Crane E, Lee J, Jones CM. Prescription opioid use, misuse, and use disorders in US adults: 2015 National Survey on Drug Use and Health. <i>Annals of Internal Medicine</i>. 2017 Sep 5;167(5):293-301.</p> <p>Mohlman MK, Tanzman B, Finison K, Pinette M, Jones C. Impact of Medication-Assisted Treatment for Opioid Addiction on Medicaid Expenditures and Health Services Utilization Rates in Vermont. <i>Journal of substance abuse treatment</i>. 2016 Aug 31;67:9-14.</p> <p>Desmond M. Chapter 7. The Sick. In <i>Evicted: Poverty and profit in the American city</i>. Broadway Books; 2016.</p>	Vanness
10/17/2017	<p><u>Lecture 12: Social Networks and Health</u></p> <p>Luke DA, Harris JK. Network analysis in public health: history, methods, and applications. <i>Annu. Rev. Public Health</i>. 2007 Apr 21;28:69-93.</p> <p>Mundt MP, Gilchrist VJ, Fleming MF, Zakletskaia LI, Tuan WJ, Beasley JW. Effects of primary care team social networks on quality of care and costs for patients with cardiovascular disease. <i>The Annals of Family Medicine</i>. 2015 Mar 1;13(2):139-48.</p> <p>Christakis NA, Fowler JH. The Spread of Obesity in a Large Social Network over 32 Years. <i>N Engl J Med</i>. 2007;357:370-9.</p>	Mundt

Date	Lecture Topic and Readings	Lecturer
10/19/2017	<p><u>Lecture 13: Health Care as a Determinant of Population Health</u></p> <p>Shi L, Singh DA. A Distinctive System of Health Care Delivery. In: Delivering Health Care In America: A Systems Approach. 3 edition. Burlington, MA: Jones &amp; Bartlett Learning; 2004:1-33.</p> <p>Shi L, Singh DA. The Evolution of Health Services in the United States. In: Delivering Health Care In America: A Systems Approach. 3 edition. Burlington, MA: Jones &amp; Bartlett Learning; 2004:81-114.</p> <p>Toland B. How did America end up with this health care system? Pittsburgh Post-Gazette. <a href="http://www.post-gazette.com/healthypgh/2014/04/27/VITALS-How-did-U-S-employer-based-health-care-history-become-what-it-is-today/stories/201404150167">http://www.post-gazette.com/healthypgh/2014/04/27/VITALS-How-did-U-S-employer-based-health-care-history-become-what-it-is-today/stories/201404150167</a> . Published April 27, 2014.</p> <p>Cutler DM, Rosen AB, Vijan S. The value of medical spending in the United States, 1960–2000. New England journal of medicine. 2006 Aug 31;355(9):920-7.</p>	Vanness
10/24/2017	<p><u>Lecture 14: Population Health Management in the Era of Health Reform</u></p> <p>McClellan M, McKethan AN, Lewis JL, Roski J, Fisher ES. A national strategy to put accountable care into practice. Health Affairs. 2010 May 1;29(5):982-90.</p>	Jaffery
10/26/2017	<u>IN-CLASS MIDTERM</u>	
10/31/2017	<p><u>Lecture 15: Choice and the Demand for Health</u></p> <p>Becker GS. A Theory of the Allocation of Time. The Economic Journal 1965;75(299):493.</p> <p>Leibowitz AA. The demand for health and health concerns after 30 years. Journal of Health Economics 2004;23(4):663-671.</p>	Mullahy
11/2/2017	<p><u>Lecture 16: Behavioral Economics and Risky Behaviors</u></p> <p>Rice T. The Behavioral Economics of Health and Health Care. Annual Review of Public Health 2013;34(1):431-447.</p> <p><i>Cawley J, Ruhm CJ. The Economics of Risky Health Behaviors. In: Handbook of Health Economics. Vol 2. Elsevier; 2011:95-199. (SKIM ONLY)</i></p>	Mullahy
11/7/2017	<p><u>Lecture 17: Key Microeconomic Concepts for Population Health</u></p> <p>Read D. Utility theory from Jeremy Bentham to Daniel Kahneman. 2004. Available at: <a href="http://eprints.lse.ac.uk/22750/1/04064.pdf">http://eprints.lse.ac.uk/22750/1/04064.pdf</a>.</p> <p><i>Advanced Material (optional): Bergemann D. Intermediate Micro Lecture Notes. Yale University, Spring 2010. Section 2 (Choice), 2.1 (Utility Functions), 2.2 (Budget Constraints), 3 (Utility Maximization)</i></p> <p>NOTE: This lecture will be delivered live via Ultra Conference through Learn@UW.</p>	Vanness

Date	Lecture Topic and Readings	Lecturer
11/9/2017	<p><u>Lecture 18: Intro to the Economics of Health Insurance</u></p> <p>Jha S, Baker T. The Economics of Health Insurance. Journal of the American College of Radiology 2012;9(12):866-870. doi:10.1016/j.jacr.2012.09.007.</p> <p>Bergemann D. Intermediate Micro Lecture Notes. Yale University, Spring 2010. Section 2 (Choice), 2.1 (Utility Functions)</p>	Vanness
11/14/2017	<p><u>Lecture 19: Health Insurance, Access and Utilization of Health Services</u></p> <p>Andersen RM. National Health Surveys and the Behavioral Model of Health Services Use. Medical Care. 2008;46(7):647-653 ("Behavioral Model of Health Services Use" section only)</p> <p>Andersen RM; McCutcheon A; Aday LA; Chiu GY; Bell R. Exploring dimensions of access to medical care. Health Services Research. 1983;18(1):49-74. (Figure 1 only)</p> <p>Ellis RP, McGuire TG. Supply-side and demand-side cost sharing in health care. Jnl of Economic Perspectives. 1993;7(4):135-151</p> <p>Manning WG, Newhouse JP, Duan N, Keeler EB, Leibowitz A, Marquis MS. Health insurance and the demand for medical care: Evidence from a randomized experiment. American Economic Review. 1987;77(3):251-277. (Skip statistical methods section)</p> <p>Polsky D, Richards M, Basseyn S, Wissoker D, Kenney GM, Zuckerman S, Rhodes KV. Appointment availability after increases in Medicaid payments for primary care. New England Journal of Medicine. 2015 Feb 5;372(6):537-45.</p>	Burns
11/16/2017	<p><u>Lecture 20: Public Insurance for the Elderly and Disabled: the Medicare System</u></p> <p>Card D, Dobkin C, Maestas N. Does Medicare save lives?. The quarterly journal of economics. 2009 May 1;124(2):597-636.</p> <p>Centers for Medicare and Medicaid Services. Medicare &amp; Medicaid Milestones 1937–2015. Available at: (Accessed May 2, 2016) Department of Health and Human Services, Centers for Medicare and Medicaid Services. 2015 Jul.</p> <p>Cubanski J, Swoope C, Boccuti C, Jacobson G, Casillas G, Griffin S, Neuman T. A primer on Medicare: key facts about the Medicare program and the people it covers. Kaiser Family Foundation. 2015 Mar 20.</p> <p><i>Skim Only: Medicare Payment Advisory Commission. A Data Book: Health care spending and the Medicare program. Department of Health and Human Services, Medicare Payment Advisory Commission. 2017 Jun.</i></p>	Burns

Date	Lecture Topic and Readings	Lecturer
11/21/2017	<p><u>Lecture 21: Public Insurance for the Poor: the Medicaid System</u></p> <p>Paradise J. Medicaid Moving Forward. Kaiser Family Foundation. March 9, 2015  <a href="http://kff.org/health-reform/issue-brief/medicaid-moving-forward/">http://kff.org/health-reform/issue-brief/medicaid-moving-forward/</a> <a href="http://kff.org/health-reform/issue-brief/medicaid-moving-forward/">(http://kff.org/health-reform/issue-brief/medicaid-moving-forward/)</a></p> <p>Pollack H, Garner B, Jost T. Valuing Medicaid. The American Prospect. July 15, 2015  <a href="http://prospect.org/article/valuing-medicaid">http://prospect.org/article/valuing-medicaid</a> <a href="http://prospect.org/article/valuing-medicaid/">(http://prospect.org/article/valuing-medicaid)</a></p> <p>Rosenbaum S., et al. What Would Block Grants or Limits on Per Capita Spending Mean for Medicaid? Commonwealth Fund. November 16, 2016  <a href="http://www.commonwealthfund.org/publications/issue-briefs/2016/nov/medicaid-block-grants">http://www.commonwealthfund.org/publications/issue-briefs/2016/nov/medicaid-block-grants</a> <a href="http://www.commonwealthfund.org/publications/issue-briefs/2016/nov/medicaid-block-grants/">(http://www.commonwealthfund.org/publications/issue-briefs/2016/nov/medicaid-block-grants)</a></p> <p>Gibson M. Exploring Claims That Medicaid Doesn't Improve Health. Issue Brief. Milbank Memorial Fund. July 2014.  <a href="http://www.milbank.org/publications/exploring-claims-that-medicaid-doesnt-improve-health/">http://www.milbank.org/publications/exploring-claims-that-medicaid-doesnt-improve-health/</a> <a href="http://www.milbank.org/publications/exploring-claims-that-medicaid-doesnt-improve-health/">(http://www.milbank.org/publications/exploring-claims-that-medicaid-doesnt-improve-health/)</a></p>	Friedsam
11/23/2017	<u>THANKSGIVING BREAK</u>	
11/28/2017	<p><u>Lecture 22: Insurance Exchanges and the Affordable Care Act</u></p> <p>ASPE. Health Plan Choice and Premiums in the 2018 Federal Health Insurance Exchange. 2017 Oct 30.</p> <p>Fernandez B and Mach AL. Health Insurance Exchanges Under the Patient Protection and Affordable Care Act (ACA). Congressional Research Service. 2012 Aug 15.</p> <p>Pollitz K, Tolbert J and Diaz M. Data Note: Changes in 2017 Federal Navigator Funding. Kaiser Family Foundation Issue Brief. 2017 Oct.</p> <p>Kamal R, Semanskee A, Long M, Claxton G and Levitt L. How the Loss of Cost-Sharing Subsidy Payments is Affecting 2018 Premiums. Kaiser Family Foundation Issue Brief. 2017 Oct.</p> <p>Sen A and DeLeire T. The Effect of Medicaid Expansion on Marketplace Premiums. ASPE Issue Brief. 2016 Sep.</p>	Burns
11/28/2017	<u>EXAM #2 ASSIGNED</u>	



Date	Lecture Topic and Readings	Lecturer
11/30/2017	<p><u>Lecture 23: Social Welfare, Justice and Equity.</u></p> <p>Olsen JA. Theories of justice and their implications for priority setting in health care. Journal of Health Economics. 1997;16(6):625-639.</p> <p>Harsanyi JC. Cardinal utility in welfare economics and in the theory of risk-taking. The Journal of Political Economy. 1953;61(5):434-5.</p> <p>Persad G, Wertheimer A, Emanuel EJ. Principles for allocation of scarce medical interventions. The Lancet. 2009;373(9661):423-431.</p> <p>Sox HC. Resolving the tension between population health and individual health care. JAMA. 2013;310(18):1933-1934.</p>	Vanness
12/5/2017	<u>EXAM #2 DUE BEFORE CLASS</u>	
12/5/2017	<p><u>Lecture 24: Politics and the Health Policy Process</u></p> <p>Gostin LO. "Big Food" Is Making America Sick. The Milbank Quarterly. 2016 Sep 1;94(3):480-4.</p> <p>Oberlander J. The Art of Repeal—Republicans' Health Care Reform Muddle. New England Journal of Medicine. 2017 Apr 20;376(16):1497-9.</p> <p>Gawande A. Is Health Care a Right. The New Yorker. 2017 Oct 2.</p> <p>Michigan Civil Rights Commission. The Flint water crisis: Systemic racism through the lens of Flint. 2017 Feb 17. [skim only]</p> <p>Oliver TR. The politics of public health policy. Annu. Rev. Public Health. 2006 Apr 21;27:195-233.</p>	Oliver
12/7/2017	<p><u>Lecture 25: Introduction to Program/Policy Evaluation</u></p> <p>Bird SM, Parmar MK, Strang J. Take-home naloxone to prevent fatalities from opiate-overdose: protocol for Scotland's public health policy evaluation, and a new measure to assess impact. Drugs: education, prevention and policy. 2015 Jan 2;22(1):66-76.</p> <p>Centers for Disease Control and Prevention. Framework for Program Evaluation in Public Health. MMWR 1999; 48(No. RR-11) <a href="https://www.cdc.gov/mmwr/PDF/rr/rr4811.pdf">https://www.cdc.gov/mmwr/PDF/rr/rr4811.pdf</a> (<a href="https://www.cdc.gov/mmwr/PDF/rr/rr4811.pdf">https://www.cdc.gov/mmwr/PDF/rr/rr4811.pdf</a>)</p> <p>Centers for Disease Control and Prevention. Step by Step – Evaluating Violence and Injury Prevention Policies Brief 1: Overview of Policy Evaluation. <a href="https://www.cdc.gov/injury/pdfs/policy/brief%201-a.pdf">https://www.cdc.gov/injury/pdfs/policy/brief%201-a.pdf</a> (<a href="https://www.cdc.gov/injury/pdfs/policy/brief%201-a.pdf">https://www.cdc.gov/injury/pdfs/policy/brief%201-a.pdf</a>)</p>	Vanness

Date	Lecture Topic and Readings	Lecturer
12/12/2017	<p><u>Lecture 26: Comparative Effectiveness Research and Health Technology Assessment</u></p> <p>Garber AM, Sox HC. The Role Of Costs In Comparative Effectiveness Research. Health Affairs 2010;29(10):1805-1811. doi:10.1377/hlthaff.2010.0647.</p> <p>Weinstein MC, Skinner JA. Comparative Effectiveness and Health Care Spending — Implications for Reform. New England Journal of Medicine 2010;362(5):460-465. doi:10.1056/NEJMs0911104.</p> <p>Mullie GA, Schwartzman K, Zwerling A, N'Diaye DS. Revisiting annual screening for latent tuberculosis infection in healthcare workers: a cost-effectiveness analysis. BMC medicine. 2017 May 17;15(1):104.</p>	Vanness
12/12/2017	<u>EXAM #3 ASSIGNED</u>	
12/20/2017	<u>EXAM #3 DUE BEFORE 11:00pm</u>	-





## Official Syllabus (BETA)

### Official Syllabus (Beta)

The **Official Syllabus** is a UW-Madison tool allowing instructors to enter official syllabus information for a course in a consistent format, as all syllabi must feature the same [standard information \(https://teachlearn.provost.wisc.edu/course-syllabi/\)](https://teachlearn.provost.wisc.edu/course-syllabi/).

When first opened, the Official Syllabus template is pre-filled with data from the official course offering. Remaining information will need to be entered using the Edit button. To submit an official syllabus and make it visible to students, it must be published. See [this document \(https://kb.wisc.edu/luwmad/page.php?id=78761\)](https://kb.wisc.edu/luwmad/page.php?id=78761) for instructions on using the Official Syllabus.

## Course Summary:

Date	Details
Thu Oct 26, 2017	 <a href="https://canvas.wisc.edu/courses/63903/assignments/210250">Exam 1 (https://canvas.wisc.edu/courses/63903/assignments/210250)</a> due by 12:17pm
Tue Nov 7, 2017	 <a href="https://canvas.wisc.edu/courses/63903/assignments/184127">Blog Participation Credit (Bonus Points out of 5) (https://canvas.wisc.edu/courses/63903/assignments/184127)</a> due by 11:59pm
Tue Dec 5, 2017	 <a href="https://canvas.wisc.edu/courses/63903/assignments/221549">Exam 2 (https://canvas.wisc.edu/courses/63903/assignments/221549)</a> due by 10:59am
Wed Dec 20, 2017	 <a href="https://canvas.wisc.edu/courses/63903/assignments/226442">Exam 3 (https://canvas.wisc.edu/courses/63903/assignments/226442)</a> due by 11:05pm