UAB School of Public Health Fundamentals of Air and Water Pollution

COURSE NUMBER: ENH 660 QL

COURSE TITLE: FUNDAMENTALS OF AIR AND WATER POLLUTION

NUMBER OF CREDIT HOURS: 3

COURSE OFFERING: Spring 2016

CLASS FORMAT: ONLINE

PRIMARY INSTRUCTORS

Water Pollution: Michelle V Fanucchi, PhD

Associate Professor, Environmental Health Sciences Ryals Public Health Building 534C, 205-934-7230

fanucchi@uab.edu

Air Pollution: Claudiu Lungu, PhD

Associate Professor, Environmental Health Sciences Ryals Public Health Building 520B, 205-934-2072

clungu@uab.edu

STUDENT ENGAGEMENT HOURS (OFFICE HOURS): Fanucchi: Mondays 11-12 and Thursdays 11-12 or by appointment.

EMAIL POLICY: The instructor will check UAB email every morning before 9 AM and every afternoon before 5 PM; email is often checked throughout the work day. Please anticipate a 12-24 hour response time on weekdays. We cannot guarantee that emails will be checked over weekends.

PREFERRED EMTHOD OF CONTACT: Best method is to email Dr. Fanucchi at fanucchi@uab.edu or Dr. Lungu at clungu@uab.edu. Messaging through CANVAS will also work well.

COURSE CLOCK: The times used in this syllabus are all Central Standard Time. Modules open every Monday at 9:00 a.m. and close every Sunday at 11:59 p.m.

INTRODUCTION: This course is designed to provide Environmental Health Sciences students an introduction to the sources, effects, monitoring and assessment, as well as the regulation and control of air and water pollution. Students will learn the fundamentals of water and wastewater treatment and the associated health effects from improperly treated water. For Industrial Hygiene and Toxicology students, it will provide the basics needed to deal peripherally with air and water pollution problems. For other Environmental Health Sciences students, it is a stepping stone toward more advanced courses on the topic.

COURSE DESCRIPTION: The course is an integrated introduction to air and water pollution, including its sources, transport and effects. The course focuses on the measurement and characterization of air pollutants and the assessment of water quality. Emphasis will also be given to the regulatory control of pollutants and to the technical aspects of engineering controls. The potential impact of air pollutants on the climate change will also be emphasized.

COURSE PREREQUISITES: None

COURSE COMPETENCIES ALIGNMENT: At the completion of the course, students will be able to:

Public Health Competencies

ENH 1: Compare and explain how environmental factors, including toxicants, impact human health

ENH 2: Specify approaches for assessing, preventing, and controlling environmental hazards that pose risks to human health and safety

ENH 4: Describe federal and state regulatory programs, guidelines and agencies that influence occupational and environmental health issues

ENH 6: Demonstrate practical knowledge of environmental regulations, including theory using real-world applications to local data

SYSTEM REQUIRMENTS: View the system requirements specified by the School of Public Health. If your computer does not meet the standards, you may encounter problems testing or accessing content. Laptops that do not meet the standards may not be used for testing. If you use a laptop that does not meet the minimum requirements, you will not be given additional time or opportunities during an exam as a result of laptop issues. Contact 205-934-7728 for technical problems within the School of Public Health or AskIT@uab.edu or call 205-996-5555 for other technical problems.

BROWSER REQUIREMENTS: Students will need to use FIREFOX (preferred) or GOOGLE CHROME browsers in order to access CANVAS.

ONLINE DELIVERY PLATFORM: This course will be delivered through Canvas by Instructure. You can access Canvas through BlazerNet or by visiting http://uab.instructure.com. You should log in using your Blazer ID and password. At any time you can contact the Canvas support team or user guides by clicking the Help button in the top right-hand side of the screen. You can also contact the Office of Student Services at soph@uab.edu for assistance.

COURSE POLICIES AND PROCEDURES: Assignments/quizzes should be submitted through Canvas (or emailed to professor) by the specified due date. Each assignment will have a submission link to upload your file. Papers will be checked by Turnitin.com within the Canvas system. Modules will open every Monday and will end Sunday at 11:59 p.m. Central Standard Time. You will still have access to

material after the end of the module, but no additional posts to discussion boards or assignments will be accepted after this date/time.

TIME REQUIREMENTS/COMMITTMENT: Taking an online course often requires more time and effort than an on-campus course. This is a 3 credit hour course; you should therefore anticipate spending at least 3 hours a week watching online lectures, viewing PowerPoint lectures, participating in discussion boards, completing online activities, and taking quizzes or exams. Additionally, you should anticipate another two hours of study time per lecture hour. Therefore, you should expect to spend an additional 6 hours a week reading your textbook, studying notes, responding to discussion posts, and working on assigned projects and/or papers.

In order to be a successful online student, you should plan to log in to the course at least 3 times a week (especially the day a new module opens), possess excellent time management and organization skills, and avoid procrastination (risk of technology failure increases as the deadline for an assignment approaches).

REQUIRED TEXT:

Masters, G.M., Ela, W.P. <u>Introduction to Environmental Engineering and Science</u>. Third Edition. Upper Saddle River, NJ: Prentice Hall, 2008.

COURSE EVALUATION: Each of 4 quizzes will count 20%, class participation in the form of reports (TBA) will count 10% and homework (TBA) will count 10% of the total grade.

GRADING SCALE:

A: 90 and above, B: 80 - <90, C: 70- <80, F: 69 or below

INCOMPLETE GRADES: The UAB Incomplete Grade Policy states that a temporary grade notation of "I "for incomplete may be requested by the student prior to the end of the term and submitted at the course master's discretion due to unforeseen circumstances that effect the student's ability to complete course requirements. Students requesting consideration of an "I" grade must discuss with the course instructor, and agree upon a plan and a schedule for, completion of course requirements. It is the student's responsibility to initiate this discussion, assure completion of this form and return it to the Office of Student and Academic Services. If no permanent grade is reported by the end of the subsequent term, an "F" will be automatically assigned to replace the "I". Extension of "I" grades may be granted only upon written request of the course instructor to the associate dean for academic affairs. Here is the web link for SOPH Incomplete Grade Request Form: http://www.soph.uab.edu/media/osas%20forms/I%20grade%20form.pdf.

ONLINE COMMUNCIATION ETIQUETTE: When participating in a discussion, please be respectful of everyone's post. While it is acceptable to disagree with someone's opinion, you should always do so in a respectful manner. This respect should be extended to entities (instructors, businesses, other students, etc.) outside of the class as well. Do not refer to people outside of the class by name or criticize

other instructors or teaching methods within posts. Keep posts relevant to the discussion board topic. This is an academic discussion, not a sounding board. Additionally, you should use appropriate language in your posts: avoid "net speak" such as *TTYL*, *LOL*, *L8R*, *U* (instead of *you*). When beginning a post, address your post to the CLASS (in all capital letters). If you are responding, use the person's name to whom you are responding in all capital letters (This is the only time you should use all capital letters).

ACCESSIBILITY: UAB is committed to providing an accessible learning experience for all students. If you are a student with a disability that qualifies under Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act, and you require accommodations, please contact Disability Support Services for information on accommodations, registration and procedures. Requests for reasonable accommodations involve an interactive process and consist of a collaborative effort among the student, DSS, faculty and staff. If you are registered with Disability Support Services, please contact me to discuss accommodations that may be necessary in this course. If you have a disability but have not contacted Disability Support Services, please call 934-4205 or visit http://www.uab.edu/dss.

TITLE IX:

The University of Alabama at Birmingham is committed to providing an environment that is free of bias, discrimination, and harassment. If you have been the victim of sexual discrimination, harassment, misconduct, or assault we encourage you to report the incident. UAB provides several avenues for reporting. For more information about Title IX, policy, reporting, protections, resources and supports, please visit http://www.uab.edu/titleix for UAB's Title IX Policy and UAB's Equal Opportunity and Anti-Harassment Policy.

HONOR CODE:

As a student in the School of Public Health, you are subject to the School of Public Health Student Honor Code which can be found at http://www.soph.uab.edu/about/vision/honorcode. You are responsible to understand the contents of the Honor Code and to abide by it. Academic Dishonesty: Plagiarism is the undocumented use of other authors' words, texts, images, and ideas that don't come from your own head. Making up sources, altering numbers, statistics, or just a few words of a document is considered plagiarism. Poor documentation or paraphrasing of a source is also considered plagiarism. Plagiarism in this course is taken seriously; any violations will be punished to the full extent allowable under the School of Public Health Honor Code. All assignments will be submitted through the TurnItIn system to document the originality of your contributions to the class.

Note: Instructors reserve the right to make changes to the syllabus or course content at any time. It is your responsibility to check the announcements from the instructor often for changes in assignment requirements, due dates, and materials.

ENH 660Q 2016 SPRING LECTURE SCHEDULE*

Module	DATE	Торіс	Pages (Textbook)
1	1/11	Course/Chapter 5 Introduction	173-181
	1/13	Water Pollution	181-198
	1/18	MLK HOLIDAY - NO CLASS	
2	1/19	BOD and the effect of oxygen-demanding wastes on rivers	199-218
3	1/25	Water quality, ground water, and aquifers	219-233
	1/27	Hydraulic gradient, Darcy's Law, and contaminant transport	234-244
4	2/1	Cone of depression and Capture-zone curves	245-254
	2/3	Ground water contaminates and control/remediation	255-266
QUIZ 1	2/8	Quiz 1	Chapter 5
QUIZ 1	2/8 2/10	Quiz 1 Chapter 6: Water Quality Control - Intro	Chapter 5 281-289
5	2/10	Chapter 6: Water Quality Control - Intro	281-289
5	2/10 2/15	Chapter 6: Water Quality Control - Intro Water Treatment system	281-289 289-332
5 6	2/10 2/15 2/17	Chapter 6: Water Quality Control - Intro Water Treatment system Wastewater treatment Hazardous Wastes treatment technologies	281-289 289-332 316-333
5 6	2/10 2/15 2/17 2/22	Chapter 6: Water Quality Control - Intro Water Treatment system Wastewater treatment Hazardous Wastes treatment technologies and land disposal	281-289 289-332 316-333
5 6 7	2/10 2/15 2/17 2/22 2/24	Chapter 6: Water Quality Control - Intro Water Treatment system Wastewater treatment Hazardous Wastes treatment technologies and land disposal Storm Water Issues	281-289 289-332 316-333 333-358
5 6 7 QUIZ 2	2/10 2/15 2/17 2/22 2/24 2/29	Chapter 6: Water Quality Control - Intro Water Treatment system Wastewater treatment Hazardous Wastes treatment technologies and land disposal Storm Water Issues Quiz 2 Chapter 7: Air Pollution	281-289 289-332 316-333 333-358

10	3/14	Student Presentation of HW assignment		
	3/16	Air Pollution and Meteorology	438-451	
	3/21	UAB SPRING BREAK – NO CLASS		
	3/23	UAB SPRING BREAK – NO CLASS		
11	3/28	Air Dispersion Models	451-470	
	3/30	Indoor Air Quality	470-486	
QUIZ 3	4/4	Quiz 3		
12	4/6	Chapter 8: Global Atmospheric Change The atmosphere; Global temperature	501-515	
13	4/11	Greenhouse effect; Global Energy balance Problem solving	515-520	
	4/13	Greenhouse gases	520-545	
14	4/18	Radiative Forcing; Global Worming Potential	545-558	
	4/20	IPCC Reports; Oceans and Climate Change	558-574	
QUIZ 4	4/25- 4/28	Quiz 4		

^{*}Subject to change at the discretion of the instructors

UAB School of Public Health HCOP 601Q: Health Economics

Course Number: HCOP 601Q

Course Title: Health Economics

Credit Hours: 3

Course Offering: Fall 2016

Course Instructor: Professor David J. Becker

Teaching Assistant: Monica Aswani (DrPH student in HCOP)

Office Hours:

I will hold online office hours on Fridays from 12-1pm. I will also be available to meet in person by appointment. I check my e-mail frequently during the week and typically will respond to questions as quick as possible during the day. I can't guarantee a response to e-mails during the evening hours and I do not reply to student e-mails on weekends. I will not respond to questions about homework assignments after 5pm on the day before the due date.

Contact Information

Email: dbecker@uab.edu
Telephone: 205-975-0532

Fax: 205-934-3347

Course Description

Economics is the study of choices in a world of scarcity. This course applies the tools of basic microeconomic theory to the financing, organization and delivery of health care. There are three fundamental goals of the course: 1) To provide students with a basic understanding of economics concepts and their relevance to the health care sector; 2) To provide students with an understanding of the United States health care system; 3) To enable students to use economic models to evaluate health policy and management options. Ideally, students will come away from the course with an improved understanding of the challenges facing health policy makers.

Prerequisites:

There are no prerequisites for this course. While some of you may have taken an undergraduate course in economics, the structure of this class presumes no knowledge of the subject. This course satisfies a degree requirement for students pursuing an MPH/DrPH in the School of Public Health

Learning Objectives/Course Competencies:

At the completion of this course students will be able to:

Objectives	Competencies
1. Identify the main components and issues	HCOP 1, MPH I
regarding the organization, financing and	
delivery of health services and public health	
systems in the US.	
2. Evaluate the effectiveness and outcomes of	HCOP 2, MPH I
health care services, programs, and policy	
interventions in improving health, quality, and	
access to care	
3. Evaluate Policy Analysis Literature	HCOP 3, MPH IV

System Requirements:

View the system requirements specified by the School of Public Health. If your computer does not meet the standards, you may encounter problems testing or accessing content. Laptops that do not meet the standards may not be used for testing. If you use a laptop that does not meet the minimum requirements, you will not be given additional time or opportunities during an exam as a result of laptop issues. Contact 205-934-7728 for technical problems within the School of Public Health or AskIT@uab.edu or call 205-996-5555 for other technical problems.

Browser Requirements:

Students will need to use Firefox or Google Chrome browsers in order to access Canvas.

Online Delivery System (Course Platform):

This course will be delivered through Canvas by Instructure. You can access Canvas through BlazerNet or by visiting http://uab.instructure.com. You should log in using your Blazer ID and password. At any time you can contact the Canvas support team or user guides by clicking the Help button in the top right-hand side of the screen. You can also contact the Office of Student Services at soph@uab.edu for assistance.

Course Policies and Procedures:

All assignments should be submitted through Canvas by the specified due date. Each assignment will have a submission link on Canvas. Assignments are due by 11:59pm CT on the dates listed on the syllabus. Course materials for each week will be released on Canvas on the Friday morning before the week listed in the syllabus.

Expectations:

My expectations for online students are the same that I have for my in-person students. You are expected to watch the lecture videos, review the posted powerpoint notes and complete all of the assigned readings. You are expected to complete all of the assignments and turn them in by the dates listed on the syllabus. When you don't understand a concept, you should review the voice over powerpoint lectures and the assigned readings.

Taking an online course requires self-discipline. In order to be successful in this course, or in any online class, you must stay on top of the material and avoid falling behind.

Required Reading:

The required textbook for this course is Health Economics, 1st Edition by Frank Sloan and Chee-Ruey Hsieh. For anyone desiring a more detailed review of microeconomics, I would recommend Economics for Dummies, 2nd Edition by Sean Flynn. These books are both available via Amazon.com. Additional assigned readings will be available on the course website.

Class Format: The material presented in this course will be nearly identical to that covered in the in-person version of HCO 601. The material will be delivered through voice-over-powerpoint slide lectures, supplemented with weekly video conference office hours.

Grading

Proctoring Policy:

Exams in online courses must be proctored. A group proctored exam will be offered on campus for each of the two midterms and the final. Students who are unable to take the exam during these times must arrange to take a proctored exam through ProctorU. Students can access the ProctorU website at http://www.proctoru.com/portal/uab.

Participation:

Students are encouraged to interact with their fellow online students through weekly online office hours and discussion boards. These discussion boards can focus on material from lectures, problem sets and related issues in health economics and policy. You will not be graded on participation but this could be a good resource given the large in this online course

Evaluation:

Problem Sets (3)	15%
Writing Assignments (1)	5%
Midterm Exams (2)	50%
Final Exam	30%

Problem Sets

There will be three problem sets. These assignments will cover the core concepts from class and reflect the level of knowledge that will be tested on the exams. You are free to work together on the problem sets, but each student is required to write up the answers in his/her own words. The problem sets will be graded on a 1 to 10 point scale based on the quality and completeness of the answers. You must submit your problem sets through Canvas by 11:59pm CT on the dates listed in the syllabus. Late work will not be accepted.

Writing Assignments

There will be one short (400-600 words) writing assignment. This paper will require you to expand on material covered in class and demonstrate your ability to use economic reasoning to

analyze health policy issues. The writing assignment will be graded using a 1 to 10 point scale. The assignment must be submitted as a Microsoft Word document through canvas by 11:59pm CT on December 1. Late work will not be accepted.

Midterm Examinations

Midterm exams will be held during the weeks of October 3 and November 7. Group proctored exams will be held on Tuesday October 4 and Tuesday November 8 at 11:00-12:15 in Ryals Building (room TBD). If you cannot take the exam during this time you will be required to take the exam through ProctorU on the dates listed in the course calendar.

Final Examination

The final exam will be held the week of December 12. The final exam is cumulative, but is weighted toward material covered after the second midterm. A group proctored exam will be held on Tuesday December 13 at 11-1:30 in Ryals Building (room TBD). If you cannot take the exam at this time you will be required to take the exam via Proctor U on the dates listed in the course calendar.

Grading Scale:

A	В	С	F
90-100	75-89	60-74	59-0

Special Instructions

When participating in a discussion, please behave appropriately. While it is acceptable to disagree with someone's opinion, you should always do so in a respectful manner. Keep posts relevant to the discussion board topic.

Policy on late assignments:

Late work will not be accepted.

Accessibility:

Any student with a disability that may need accommodations in order to successfully complete all requirements of (this) course should call the Office of Disability Support Services, at 205-934-4205. This office is responsible for registering students and in ensuring the University's compliance with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act. Once registered, this office will then inform faculty members of all courses in which the student is enrolled of the student's status and the specific nature of any accommodations required. Any student requiring such accommodation should discuss this with the course master and assure that the appropriate correspondence is sent from the Office of Disability Support Services.

Honor Code:

As a student in the School of Public Health, you are subject to the School of Public Health Student Honor Code which can be found at http://www.soph.uab.edu/about/vision/honorcode.

You are responsible to understand the contents of the Honor Code and to abide by it. Academic Dishonesty: Plagiarism is the undocumented use of other authors' words, texts, images, and ideas that are not your own. Making up sources, altering numbers, statistics, or just a few words of a document is considered plagiarism. Poor documentation or paraphrasing of a source is also considered plagiarism. Plagiarism in this course is taken seriously; any violations will be punished to the full extent allowable under the School of Public Health Honor Code.

Course Calendar:

The chapters listed "SH" below are from Health Economics, 1st Edition by Frank Sloan and Chee-Ruey Hsieh. The entire chapter is assigned unless specific pages are listed. Optional chapters from Economics for Dummies, 2nd Edition by Sean Flynn are denoted "EFD". Journal articles are available through the course website.

Week #	Topic	Readings	Activities/Due Dates		
I. Intro and Review of Microeconomics					
Week 1	August 29: Introduction: The Economics Health	SH Chapter 1 (pp.1-20) "Economics, Values and Health Care Reform" by Victor Fuchs			
	September 1: Supply, Demand and Market Equilibrium	EFD Part II (pp 57-82)			
Week 2	September 6: Consumer Behavior: Utility Maximization and Demand	EFD Part II (pp 83-100)	Problem set 1 distributed		
	September 8: Producer Behavior: Profit Maximization and Supply	EFD Part II (pp 101-126, skim 127-172)			
Week 3	September 13: Elasticity and Welfare Analysis	Chapter 3 SH (pp. 85-87, 115-118)			
	September 15: Externalities	EFD Part III (pp 193-204) "Smoking's Internalities" by Jonathan Gruber	Problem Set 1 Due		
Week 4	September 20: Econometrics: Hypothesis Testing and Regression Analysis	"Statistical Models and Shoe Leather" by David Freedman	Problem set 2 distributed		
	II. The Production of Health				
Week 4 Continued	September 22: Historical Rise of Health and Health	Chapter 16 SH (pp 704-720) "Medical Care Costs: How			
	Expenditures	Much Welfare Loss?" by			

		Joseph Newhouse	
		"More Life vs. More Goods: Explaining Rising Health Expenditures" by Charles Jones	
Week 5	September 27: The Value of Health	Chapter 2 SH (pp 54-57)	
	Spending/ Cost- Effectiveness Analysis	Chapter 14 SH (pp 617-632, 639-643)	
		"The Value of Medical Spending in the United States, 1960-2000" by David Cutler and Allison Rosen and Sandeep Vijan	
	September 29: Demand for Health	Chapter 2 SH (pp. 39-54)	Problem Set 2 Due
Week 6	October 4: MIDTERM EXAM 1		In person MT Exam #1 October 4 11:00-12:15pm or take between Oct 3- 5 via ProctorU
	October 6: Non-Medical Determinants of Population Health	Chapter 2 SH (pp 61-70) "Reflections on the Socioeconomic Correlates of Health" by Victor Fuchs "The Influence of Income on Health" by Michael Marmot "The Paradox of Health" by Arthur Barsky	
III. Health	Insurance		
Week 7	October 11: Risk Aversion and Demand for Health Insurance	Chapter 4 SH (pp. 127-142)	
	October 13: Adverse Selection and Supply of Health Insurance	Chapter 4 SH (pp 147-167) "The Market for Lemons" by George Akerlof	
Week 8	October 18: Moral Hazard: Insurance and Demand	Chapter 3 SH (pp 83-97) "The Moral-Hazard Myth" by	Problem Set 3 Distributed

	for Medical Care	Malcolm Gladwell	
	October 20:	Chapter 3 SH (pp 97-120)	
	Demand for Medical		
	Care: Empirical	"Health Insurance and the	
	Evidence	Demand for Medical Care:	
		Evidence from a Randomized	
		Experiment" by Willard	
		Manning et al.	
IV. Health (Care Markets		
Week 9	October 25:	Chapter 5 SH (pp 171-178, 197-	
	Health Care Workforce	199)	
		Chapter 8 SH (pp 319-338)	
		"Why a GME Squeeze is	
		Unlikely" by Fitzhugh Mullan	
		et al.	
	October 27:	Chapter 5 SH (200-204)	Problem Set 3 Due
	Physician Incentives:	C1 4 7 CH (20(200)	
	Defensive Medicine	Chapter 7 SH (286-308)	
	and Supplied Induced Demand	"Dhygiaign Eingnaigh Ingantiyas	
	Demand	"Physician Financial Incentives and Cesarean Section Delivery"	
		by Jonathan Gruber and Maria	
		Owings	
		Owings	
		"Impact of Malpractice	
		Reforms on the Supply of	
		Physician Services" by Daniel	
		Kessler, William Sage and	
		David Becker	
Week 10	November 1:	Chapter 6 SH (pp 219-221, 238-	
	Hospitals: Theories of	245)	
	Non-profits		
	November 3: Hospital	Chapter 6 SH (pp 245-265)	
	Competition: Role of		
	Regulation	"Does Removing Certificate-of-	
		Need Regulation Lead to a	
		Surge in Health Spending?" by	
		Christopher Conover and Frank	
		Sloan	
		"Is Hospital Competition	
		Socially Wasteful" by Daniel	
		Kessler and Mark McClellan	
		(Skim Intro)	

Week 11	November 8: MIDTERM EXAM 2		In person MT Exam #2 November 8 1:00-2:15pm or take between November 7-9 via ProctorU
	November 10: Pharmaceuticals	Chapter 17 SH (pp 367-398) "High Prices" by Malcolm Gladwell	
		"Selling Sickness" by Ray Moynihan et al. (Optional)	
	th Care System		
Week 12	November 15: Employer Based Health Insurance	Chapter 10 SH (pp 417-437) "Employer-based Health Insurance: A Balance Sheet" by Uwe Reinhardt	Writing Assignment Distributed
	November 17: Insurance Market Regulation / Managed Care	Chapter 10 SH (pp 437-459)	
Week 13	November 29: Government Provision of Health Insurance	Chapter 13 SH (pp 563-572)	
	December 1: Medicaid and Medicare Reforms	Chapter 12 SH (pp 516-534, skim 503-15) "Real Medicare Reform" by	**Writing Assignment Due
		Daniel Kessler (Optional)	
Week 14	December 6: The Affordable Care Act	"Long Time Coming: Why Health Care Reform Finally Passed" by J. Oberlander	
		"The Uninsured: A Primer" Kaiser Family Foundation (OPTIONAL)	
	December 8: The Road ahead	"Putting the Public's Money Where it's Mouth Is" by Daniel Kessler and David Brady	
		"Myths and Misconceptions About US Health Insurance" by Katherine Baicker and Amitabh Chandra	

		"Assessing Health Reform's Impact on Four Key Groups of Americans" by Joseph Newhouse	
Final Exam	Week		In person FINAL EXAM on December 13 from 11-1:30 OR take anytime between December 12-14 via ProctorU

FW: One Health

From: B.G. Lockaby

Sent: Wednesday, May 16, 2018 7:32 AM **To:** George Crandell < crandgw@auburn.edu>

Subject: FW: One Health Certificate

George,

In reference to Kevin Snyder's email below, we have the attached email correspondence that documents the discussion between our AU One Health Certificate group and UAB. While 2 UAB courses were initially discussed, we finally elected to add only HCO 601. Could this email traffic suffice in lieu of a MOU? I make this request in order that we might finally be able to move this along – you'll note the dates on the emails with UAB are late 2016. This has been a long process. Thanks.

Graeme

Dr. Enebak:

Please read Dr. Crandell's request below. Can you please provide the requested document? Thank you.

Kevin T. Snyder

Coordinator, Curriculum Management 209H Samford Hall Auburn University Auburn, AL 36849

Phone: 334-844-4974

From: George Crandell

Sent: Monday, May 14, 2018 8:51 AM
To: Kevin Snyder < kts0004@auburn.edu>

Subject: RE: Graduate Council Curriculum Committee Agenda

Kevin,

You are correct. The email from Dr. Clark is attached. In the email, Dr. Clark recommends: "4. Whether the credits are shown as Auburn's or as UAB's, it would be prudent to have a written agreement between the two partners."

If such an agreement exists, I think it should be attached.

Best regards,

George Crandell

From: B.G. Lockaby [mailto:lockabg@auburn.edu]

Sent: Wednesday, May 16, 2018 7:21 AM

To: Graeme Lockaby (lockaby@auburn.edu) (lockaby@auburn.edu) <lockaby@auburn.edu>

Subject: FW: One Health Certificate

From: B.G. Lockaby

Sent: Thursday, November 10, 2016 12:44 PM

To: Sarah Zohdy (smz0003@auburn.edu; Stephanie Ostrowski

<sro0002@auburn.edu>; James Wright <wrighj3@auburn.edu>; Emily Merritt <ezm0017@auburn.edu>;

Wayde Morse <wcm0005@auburn.edu>; Derrick Mathias <dkm0011@auburn.edu>

Subject: FW: One Health Certificate

All,

Thanks to Stephanie's arrangement of the meeting, I had a very positive discussion with Angela Sullivan of UAB's School of Public Health. Based on Angela's information and confirmation by our graduate school, the best route to go would be to list UAB courses that we'd like to have as electives and have any of those taken by students in our certificate transferred to AU. The cost for an AU student to take one of their courses is \$50-60 per course. The students would sign up as non-degree students at UAB. George Crandell feels that this would work. So, please let me know what you think of including the 2 following courses mentioned by Angela. We have at AU courses that are similar to the air and water pollution course but nothing to my knowledge akin to the economics class.

GL

From: Sullivan, Angela M [mailto:amsulli@uab.edu]

Sent: Tuesday, November 08, 2016 2:24 PM

To: B.G. Lockaby; Ginter, Peter M **Subject:** RE: One Health Certificate

Hi there,

I wanted to e-introduce you to our associate dean, Pete Ginter, copied here. Dr. Ginter, AU is working on creating a One Health Certificate and are contemplating using 2 or 3 of our courses (HCO 600, ENH 600, HB 600, HCO 601, and ENH 660 are the ones currently being discussed).

Dr. Lockaby, as promised:

- · HCO 601 Health Economics syllabus attached
- ENH 660 Fundamentals of Air and Water Pollution syllabus attached
- The graduate level non-degree seeking application fee is \$40
- We discussed the process for allowing students not in our program to enroll in courses all we need is a list of who would need what when registration opens and our group can set aside seats for your students

The application process for non-degree seeking graduate students:

Apply as a non-degree seeking student through the UAB Graduate School's Apply Yourself webpage: https://app.applyyourself.com/?id=uab-grad Transcripts are NOT required for domestic students, but international students will need to submit transcripts.

I am here if you or anyone has any questions. Have a wonderful afternoon!

Angela Sullivan | Director of Enrollment Management
University of Alabama at Birmingham School of Public Health
205-934-2684 | Fax: 205-975-5484 | www.soph.uab.edu

1720 2nd Avenue South 130 Ryals Public Health Building Birmingham, AL 35294-0022



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From: B.G. Lockaby [mailto:lockabg@auburn.edu]
Sent: Thursday, November 03, 2016 12:47 PM
To: Sullivan, Angela M; Stephanie Ostrowski

Subject: RE: Request for a meeting at Auburn on Nov 7th -- (during/after AU CVM Veterinary Public

Health Careers Forum)

Angela,

9:30 would be fine. I'll come to the CoVetMed . Do you know what room you'll be in there? Thanks.

Graeme

From: Sullivan, Angela M [mailto:amsulli@uab.edu]
Sent: Thursday, November 03, 2016 12:42 PM
Tax B.C. Lealahy, Stanbaria Ostrovali

To: B.G. Lockaby; Stephanie Ostrowski

Subject: RE: Request for a meeting at Auburn on Nov 7th -- (during/after AU CVM Veterinary Public

Health Careers Forum)

Hi there,

Sorry for the delay, I've been at a conference and preparing for another out of town event tomorrow. The syllabi for the courses mentioned below are attached.

I would be so happy to chat with you while I'm in town on Monday, Dr. Lockaby. I have an event to get to Monday evening so I must leave at 2:00; however, I'll be happy to come in earlier to meet with you if that works with your schedule. I planned on being at vet medicine at 10:30, so possibly meet round 9:30 or so?

I'm leaving until Tuesday so you will see an auto reply when you respond, but I will be checking my email. Looking forward to meeting with you. Thanks!

Angela Sullivan | Director of Enrollment Management University of Alabama at Birmingham School of Public Health

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From: Stephanie Ostrowski [mailto:sro0002@auburn.edu]

Sent: Wednesday, November 02, 2016 12:02 PM

To: Sullivan, Angela M **Cc:** B.G. Lockaby

Subject: Request for a meeting at Auburn on Nov 7th -- (during/after AU CVM Veterinary Public Health

Careers Forum)

Good morning Angela –

I just left a message on your voice mail at work about arranging a meeting with the Associate Dean for Academic Affairs from the AU School of Forestry and Wildlife Sciences (SFWS) while you are here on Monday.

Briefly -

AU School of Forestry and Wildlife Sciences is the lead academic institution at Auburn University for a proposal creating an on-line Graduate Certificate in One Health (GCOH). They identified a clear need in their educational/ professional sector, researched what is currently offered by other institutions, and have embraced the opportunity to provide an on-line post-graduate ecosystem-centric One Health curriculum. AU CVM and other academic units at Auburn are providing support for this effort.

There is significant interest on our end in pursuing this expansion of our current relationship with UAB. During the summer, Dr. Bartol (AU CVM) reached out to Dean Max Michael to engage UAB

SOPH's participation, and my understanding is that he received an affirmative response. Details remain to be worked out, of course.

Dr. Bartol has suggested that – consistent with AU – UAB's campus-wide agreement -- GCOH students (registered at Auburn) could enroll in certain on-line MPH courses not offered at Auburn such as Environmental Health (ENH 600), Social/ Behavioral Public Health (HB 600) or Health Care Organizations (HCO 600) as elective courses for transfer credits.

If possible, Dr. Lockaby would like to include these elective course options at UAB SOPH as part of the Certificate proposal that he is in the process of finalizing.

- Are you available to meet on Monday with Dr. Lockaby?
- 2. Can you please provide e-files for the syllabi of the 3 courses mentioned above?

I look forward to hosting you at Auburn on Monday, and hope that we can arrange a meeting with you and Dr. Lockaby while you are on campus.

Thanks Angela!

Stephanie R. Ostrowski, DVM, MPVM, DACVPM
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