

Request for Graduate Course Addition

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: COHP

Dept/Division: Public Health

Alpha Designator/Number: PH 662

 Graded CR/NC

Contact Person: William F. Pewen

Phone: (304) 696-3743

NEW COURSE DATA:

New Course Title: Control of Infectious disease	
Alpha Designator/Number:	P H 6 6 2
Title Abbreviation:	C o n t r o l o f I n f D i s e a s e
(Limit of 25 characters and spaces)	
Course Catalog Description: (Limit of 30 words)	Examination of infectious diseases from a public health perspective, including strategies for prevention, treatment, control and eradication.
Co-requisite(s): None	First Term to be Offered: Spring 2016
Prerequisite(s): PH 611	Credit Hours: 3
Course(s) being deleted in place of this addition (must submit course deletion form):	

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head <u>William F. Pewen</u>	Date <u>10/27/15</u>
Registrar <u>Roberta Ferguson 005122</u>	Date <u>10/28/15</u>
College Curriculum Chair <u>[Signature]</u>	Date <u>11-4-15</u>
Graduate Council Chair _____	Date _____

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College: COHP

Department/Division: Public Health

Alpha Designator/Number: PH 662

Provide complete information regarding the new course addition for each topic listed below. Before routing this form, a complete syllabus also must be attached addressing the items listed on the first page of this form.

1. FACULTY: Identify by name the faculty in your department/division who may teach this course.

William F. Pewen, Ph.D., M.P.H., future faculty, and such as the dean and program director shall designate.

2. DUPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the proposal. Enter "**Not Applicable**" if not applicable.

Not Applicable

3. REQUIRED COURSE: If this course will be required by another department(s), identify it/them by name. Enter "**Not Applicable**" if not applicable.

Not applicable

4. AGREEMENTS: If there are any agreements required to provide clinical experiences, attach the details and the signed agreement. Enter "**Not Applicable**" if not applicable.

Not applicable

5. ADDITIONAL RESOURCE REQUIREMENTS: If your department requires additional faculty, equipment, or specialized materials to teach this course, attach an estimate of the time and money required to secure these items. (Note: Approval of this form does not imply approval for additional resources.) Enter "**Not Applicable**" if not applicable.

College of Health Professions is responsible for hiring faculty. No other resources required at this time.

6. COURSE OBJECTIVES: (May be submitted as a separate document)

See Syllabus

7. COURSE OUTLINE (May be submitted as a separate document)

See Syllabus

8. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATES (May be submitted as a separate document)

Control of Communicable Diseases Manual, 20th Edition. APHA Press. (2014) ISBN 978-0875530185

Magnus, Manya. Essentials of Infectious Disease Epidemiology. (2008) Jones & Bartlett Learning, Burlington, MA ISBN 9780763734442

Nelson, Kenrad, E. and Carolyn Masters Williams. Infectious Disease Epidemiology: Theory and Practice. Third Edition. (2014) Jones & Bartlett Learning, Burlington, MA ISBN 9781449683795

9. EXAMPLE OF INSTRUCTIONAL METHODS (Lecture, lab, internship)

Lecture, group discussion, software exercises.

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10. EXAMPLE EVALUATION METHODS (CHAPTER, MIDTERM, FINAL, PROJECTS, ETC.)

Quiz on readings
Midterm take home exercise
EpiInfo problem set
Final comprehensive exam

11. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE/GRADUATE COURSE

Not applicable

12. PROVIDE COMPLETE BIBLIOGRAPHY (May be submitted as a separate document)

Last, J.M. A Dictionary of Epidemiology. Oxford University Press. 4th Ed. 2001. ISBN 0195141695

Adult Immunization Schedule. Department of Health and Human Services. 2015

Budowie B, et al. Building Microbial Forensics as a Response to Bioterrorism. Science 301 (5641): 1852-1853.

Chesney PJ: Clinical Aspects and Spectrum of Illness of Toxic Shock Syndrome: Overview. Rev of Infect Dis 1989; 11, Suppl 1:S1-S7.

Control of Communicable Diseases Manual. APHA 2008 (19th Ed.) ISBN 978-0-87553-189-2

Dye C, Gay N. 2003. Modeling the SARS Epidemic. Science 300 (5627): 1884-1885.

El-Serag HB, Mason AC. Risk factors for the rising rates of primary liver cancer in the United States . Arch Intern Med 2000; 160:3227-30.

EpiInfo 7 User Guide. Centers for Disease Control and prevention Access at: <http://wwwn.cdc.gov/epiinfo/user-guide/index.htm>

Grant, RM, et al. Pre-exposure chemoprophylaxis for HIV prevention in men who have sex with men. NEJM 363:27

Harper DM, Franco EL. Efficacy of a bivalent L1 virus-like particle vaccine in prevention of infection with human papillomavirus types 16 and 18 in young women: a randomized controlled trial. Lancet 2004 (364):1757-1765.

Huges JP, Garnett GP, et al. The theoretical population-level impact of a prophylactic human papilloma virus vaccine. Epidemiology 2002; 13:631-639

Ksiazek TG, Erdman D et al. A novel coronavirus associated with severe acute respiratory syndrome. New Engl J Med 2003;348 (20):1953-1966

Pallela, F., et al. Durability and predictors of success of highly active antiretroviral therapy for ambulatory HIV-infected patients. AIDS. 2002 Aug 16;16(12):1617-26.

Pollack, A. F.D.A. Approves Pill to Treat Hepatitis C. New York Times, December 6, 2013.

Report of the Ebola Interim Assessment Panel. World Health Organization 2015

Roberts J. A. The Economics of Infectious Disease. OUP. 2006. ISBN 0198516215

Webber, R. Communicable Disease Epidemiology & Control, 3rd Edition. Wallingford: CAB International. 2009, ISBN 978-1-84593-504-7.

Weis SE, Slocum Pc, Blais FX, King B, Nunn M, et al. The effect of directly observed therapy on the rates of drug resistance and relapse in tuberculosis. N Engl J Med 1994; 330:1179-1184.

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Please insert in the text box below your course summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

Department:

Course Number and Title:

Catalog Description:

Prerequisites:

First Term Offered:

Credit Hours:

Department: Graduate Program in Public Health

Course Number and Title: PH 662 Control of Infectious Disease

Catalog Description: Examination of infectious diseases from a public health perspective, including strategies for prevention, treatment, control and eradication.

Prerequisites: PH 611

First Term Offered: Spring 2016

Credit Hours: 3

COURSE TITLE/NUMBER	Control of Infectious Diseases PH 662
SEMESTER/YEAR	Spring 2016
DAYS/TIME	Monday 6:00 – 9:00 p.m.
CREDIT HOURS	3
LOCATION	CHH
INSTRUCTOR	Staff
OFFICE/PHONE	317 Prichard Hall 304-696-2642
E-MAIL	mph@marshall.edu
OFFICE HOURS	TBD
CFE/UNIVERSITY POLICIES	By enrolling in this course, you agree to the <i>Marshall University Policies</i> , and thus it is essential that you understand them. Please review these at the Academic Affairs website: http://muwww-new.marshall.edu/academic-affairs/policies/

COURSE DESCRIPTION: FROM CATALOG

Examination of infectious diseases from a public health perspective, including strategies for prevention, treatment, control and eradication.

PREREQUISITES:

Successful completion of PH 611.

STUDENT LEARNING OUTCOMES IDENTIFIED IN THIS COURSE:

Upon completion of the course, students will:

1. Demonstrate knowledge of major infectious diseases of public health significance, including pathology, agent, occurrence, reservoir, transmission, incubation, communicability, host susceptibility, and current methods of control.
2. Articulate the major biologic, social, economic and environmental factors which foster infectious diseases, and describe how those have been mitigated and exacerbated.
3. Develop a basic strategic plan aimed at an infectious disease in terms of biologic, social, ethical, economic and policy considerations.

COURSE STUDENT LEARNING OUTCOMES	HOW PRACTICED IN THIS COURSE	HOW ASSESSED IN THIS COURSE
Goal 1. Demonstrate knowledge of major infectious diseases of public health significance, including pathology, agent, occurrence, reservoir, transmission, incubation, communicability, susceptibility, and current methods of control.	Text and journal readings; lecture and discussion; Epi Info exercise.	Evaluation of Epi Info exercise and project; broad knowledge of significant infectious diseases assessed via final written exam.

<u>Goal 2.</u> Articulate the major biologic, social, economic and environmental factors which foster infectious diseases, and describe progress and impediments to mitigation of those effects	Lecture and discussion; supplemental readings.	Quizzes provides interim assessment of understanding of concepts; Midterm emphasizes more comprehensive assessment of #2.
<u>Goal 3.</u> Evaluate infectious disease strategies in terms of biologic, social, ethical, economic and policy implications.	Lecture and discussion on major methods. Supplemental readings. Focused case study review for each strategy.	Quizzes for interim assessment; Final exam (major emphasis on understanding of major diseases and control strategies)

REQUIRED TEXTS, ADDITIONAL READING, AND OTHER MATERIALS

<p>Control of Communicable Diseases Manual, 20th Edition. APHA Press. (2014) ISBN 978-0875530185</p> <p>Epi Info™ Software Version 7 (CDC freeware for Windows 7 or later)</p> <p>CDC Morbidity and Mortality Weekly Report (free electronic subscription)</p> <p>Healthmap Project of Boston’s Children’s Hospital http://healthmap.org</p> <p>Google Flu Trends http://www.google.org/flutrends/</p> <p>Selected assigned journal and periodical readings (Access online via Marshall libraries)</p>

RECOMMENDED MATERIALS

<p>Personal computer and smartphone are required.</p> <p>Additional recommended readings:</p> <ul style="list-style-type: none"> • Betrayal of Trust: The Collapse of Public Health (Garrett) • The Coming Plague (Garrett) – In particular, chapters 2, 8, 9, 13, 14. • Guns, Germs and Steel (Diamond)

COURSE REQUIREMENTS / DUE DATES

<ol style="list-style-type: none"> 1. Student learning is tested through interim unannounced quizzes as “checkpoints” 2. Midterm (take home due March 14) 3. Epi Info exercise (due March 28) 4. Final exam (comprehensive exam on May 2)

GRADING POLICY

Quizzes	20%
Midterm exam	30%
Epi Info project	20%
Final Exam	30%

Grades will be determined by the following scale:

90-100	A
80-89	B
70-79	C
60-69	D
<60	F

ATTENDANCE POLICY

This class meets weekly. While attendance is not required, lectures may not be replicated on Blackboard, and frequent in-class assessments are graded, thus students are encouraged to maintain regular attendance.

ADDITIONAL POLICIES FOR PH 662

ADDITIONAL POLICIES

- 1. Accountable material and preparation.** Class sessions are conducted based on the expectation that students complete all appropriate readings and/or assignments as scheduled. This facilitates better questions, discussion, and learning. Exam and quiz questions may be based on both out-of-class assignments and material presented in class.
- 2. Electronic devices.** Electronic devices (smartphones, PDAs, laptops, etc.) can be a valuable asset in the classroom. However, if used inappropriately, these can be a distraction. Students should utilize these devices in class only for educational purposes, and are requested to be unobtrusive in their use (including silencing cell phone ringers). Please note that social media, “tweeting”, and real time chat are not appropriate in the classroom unless part of a classroom exercise.
- 3. Intellectual property notice:** Many materials used in this class are copyrighted, while others represent content and product of the instructor and/or Marshall University. While students may share notes and engage in discussions regarding their work in the course, recording or distribution of course content is not permitted. Students should enquire of the instructor for clarification regarding exceptions.
- 4. Academic integrity:** Students should refer to the Student Handbook to ensure understanding of policies concerning academic honesty and integrity, including plagiarism and cheating. Unless specified by the instructor, no electronic devices, notes, or other non-approved assistance is permitted during any exam.
- 5. Disability accommodation.** The instructor will endeavor to accommodate students

- with a disability. It is requested that the student notify the instructor at the earliest possible time regard anticipated assistance which may be required.
6. **Vigilance.** Students are expected to access their MU e-mail address and MU On-line regularly for information related to the course.
 7. **Missed classes:** If you are absent, it is the student’s responsibility to find out from a classmate what notes, handouts, assignments, or other course material you missed and to make arrangements to receive those.
 8. **Make-up assignments and exams:** Students who miss scheduled exams or assignments may make them up in the event of a University-excused absence or medical emergency. In any other situation, a student may request a make-up, but if the request is granted, such may be a different exam or assignment.
 9. **Office hours:** As posted and by appointment.
 10. **Inclement Weather:** If inclement weather results in class cancellation, students are directed to carefully review posted material posted for that session, as we will endeavor to maintain the planned course schedule, including exams which may include that content.
 11. **Reasonable change with notice.** In order to facilitate unforeseen circumstances, as well as act in the best interest of students and the university, the terms and schedule in this syllabus are subject to prudent change with reasonable notice.

Proposed Course Schedule

Week	Date	Topic	Assessment	Description
1	Jan 11	Introduction, Biologic Foundations	-	Intro / Host Immune Response / Epidemiology
2	Jan 18	MLK HOLIDAY	-	NO CLASS
3	Jan 25	Agent, Host and Environment	*	Epidemiology of Infectious Disease
4	Feb 1	Outbreaks I	*	Containment & Control
5	Feb 8	Outbreaks II	*	Investigation with Epi Info
6	Feb 15	Infrastructure of Infection	*	Environmental, economic, and social factors
7	Feb 22	Vaccination I		Vaccine prerequisites and historical experience
8	Feb 29	Vaccination II	*	Safety, liability and marketing
9	Mar 7	Pharmacologic Therapy I	*	Drug discovery, development and use
10	Mar 14	Pharmacologic Therapy II	Midterm Due	Drug resistance, safety, economics & ethics
11	Mar 21	SPRING BREAK	-	NO CLASS
12	Mar 28	Education & Behavior	Epi Info Due	Addressing human factors
13	Apr 4	Emerging Threats	*	From natural outbreaks to bioterrorism
14	Apr 11	Strategic Planning	*	Formulating a public health strategy
15	Apr 18	Emerging Methods	*	‘Big Data’, Modeling & More
16	Apr 25	Open Topic	-	Review
17	May 2	Final Exam	Exam	Comprehensive Exam

* Quizzes possible on any of these dates