### Course Form

#### I. Summary of Proposed Changes

<table>
<thead>
<tr>
<th>Dept / Program</th>
<th>Public &amp; Community Health Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Title</td>
<td>History and Theory of Epidemiology</td>
</tr>
<tr>
<td>Short Title (max. 26 characters incl. spaces)</td>
<td></td>
</tr>
<tr>
<td>Summarize the change(s) proposed</td>
<td>New Course</td>
</tr>
</tbody>
</table>

#### II. Endorsement/Approvals

Complete the form and obtain signatures before submitting to Faculty Senate Office.

<table>
<thead>
<tr>
<th>Please type / print name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requestor:</td>
<td>Craig Molaard</td>
<td>3/22/12</td>
</tr>
<tr>
<td>Phone / email:</td>
<td>406-243-4445</td>
<td></td>
</tr>
<tr>
<td>Program Chair/Director:</td>
<td>Craig Molaard</td>
<td>4/4/12</td>
</tr>
<tr>
<td>Other affected programs:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dean:</td>
<td>Veron Grund</td>
<td>4/5/12</td>
</tr>
</tbody>
</table>

Are other departments/programs affected by this modification because of:
(a) required courses incl. prerequisites or corequisites, 
(b) perceived overlap in content areas 
(c) cross-listing of coursework

Please obtain signature(s) from the Chair/Director of any such department/program (above) before submission.

#### III: To Add a New Course

Syllabus and assessment information is required (paste syllabus into section V or attach). Course should have internal coherence and clear focus.

**Common Course Numbering Review (Department Chair Must Initial):**

- Does an equivalent course exist elsewhere in the MUS? Check all relevant disciplines if course is interdisciplinary. ([http://www.mus.edu/Outlooks/CCN/ccn_default.asp](http://www.mus.edu/Outlooks/CCN/ccn_default.asp))

If YES: Do the proposed abbreviation, number, title and credits align with existing course(s)? Please indicate equivalent course/campus. ↓

If NO: Course may be unique, but is subject to common course review. Be sure to include learning outcomes on syllabus or paste below. The course number may be changed at the system level.

See Syllabus

**Exact entry** to appear in the next catalog (Specify course abbreviation, level, number, title, credits, repeatability (if applicable), frequency of offering, prerequisites, and a brief description.) ↓

G 511 History and Theory Epidemiology 3 cr. Offered spring. This graduate course covers the basic science of public health. Major schools of epidemiology from the Greek, Italian and English traditions will be compared and contrasted. Basic concepts and terminology will be introduced and major pandemics used to illustrate the evolution of the field.

**Justification:** How does the course fit with the existing curriculum? Why is it needed?

Alternative to one of the MPH program's nine core competencies (510) which does not have enough open seats to meet student demand.

Are there curricular adjustments to accommodate teaching this course?

None needed.

Complete for UG courses (UG courses should be assigned a 400 number). Describe graduate increment - see procedure 301.30

[http://unt.edu/facultysenate/committees/grad_council/procedures/default.aspx](http://unt.edu/facultysenate/committees/grad_council/procedures/default.aspx)
Complete for Co-convened courses
Companion course number, title, and description (include syllabus of companion course in section V) See procedure 301.20 http://umt.edu/facultysenate/committees/grad_council/procedures/default.aspx.

New fees and changes to existing fees are only approved once each biennium by the Board of Regents. The coordination of fee submission is administered by Administration and Finance. Fees may be requested only for courses meeting specific conditions according to Policy 940.12.1 http://mus.edu/borpol/bor900/940-12-1.pdf. Please indicate whether this course will be considered for a fee.

If YES, what is the proposed amount of the fee?

Justification:

Deletion

<table>
<thead>
<tr>
<th>Course Number Change</th>
<th>From:</th>
<th>To:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description Change</td>
<td>From:</td>
<td>To:</td>
</tr>
<tr>
<td>Change in Credits</td>
<td>From:</td>
<td>To:</td>
</tr>
</tbody>
</table>

Prerequisites

1. Current course information at it appears in catalog (http://www.umt.edu/catalog)

2. Full and exact entry (as proposed)

3. If cross-listed course: secondary program & course number

4. If co-convened course: companion course number, title, and description (include syllabus of companion course in section V) See procedure 301.20 http://umt.edu/facultysenate/committees/grad_council/procedures/default.aspx.

5. Is this a course with MUS Common Course Numbering?

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
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</table>

If yes, please explain below whether this change will eliminate the course’s common course status.

6. Graduate increment if level of course is changed to UG.

Reference procedure 301.30:
http://umt.edu/facultysenate/committees/grad_council/procedures/default.aspx

(syllabus required in section V)

7. Other programs affected by the change

8. Justification for proposed change

V. Syllabus/Assessment Information (must include learning outcomes)

Required for new courses and course change from U to UG. Paste syllabus in field below or attach and send digital copy with form.

Have you reviewed the graduate increment guidelines? Please check (X) space provided.

VII Copies and Electronic Submission. After approval, submit original, one copy, summary of proposals and electronic file to the Faculty Senate Office, UH 221, camie.foos@msu.umn.edu.

Revised 8-23-11
PUBH 511-History and Theory of Epidemiology

Instructor: Craig A. Molgaard, Ph.D., M.P.H.
Professor and Chair
School of Public and Community Health Sciences
College of Health Professions and Biomedical Sciences
The University of Montana
Contact Information: Skaggs Building 302
406-243-4445
craig.molgaard@mso.umt.edu

Format: Online with Moodle. Course procedures and expectations are those normally used in the online MPH program at the University of Montana. If questions arise contact Julie Stevens, julie.stevens@umontana.edu, or Tracy Jones at tracy.jones@mso.umt.edu or (406)243-2571.

For purposes of assignments and class activities, the week starts on Monday 12:01 a.m. and ends on Sunday at Midnight. Office hours will be established the first week of the semester, during which time Dr. Molgaard will be available for phone calls or immediate email responses. Outside office hours, he will respond to emailed questions within 48 hours unless prior notice has been given to the class.

Moodle Help: UMOlne has mad available an interactive tutorial for using Moodle as a student. UMOlne 101 can be found at: https://umonline.mrooms3.net/course/view.php?id=41. Additional Moodle resources can be found at: http://umonline.umt.edu/Moodle%20Tip%20Sheets/tipsheetandvideosstudents.aspx.

Required Texts:


Other readings as assigned will be available on electronic course reserve through Mansfield Library.

Course Description: This course covers the development and evolution of epidemiology, the basic science of public health. Major schools of epidemiology from the Roman-Greek, Italian and English traditions will be compared and contrasted.

Online Format: Readings from the textbooks and discussion questions from the texts and the instructor will form the basis of weekly class postings on the online discussion board. There will also be two exams given throughout the semester, one at midterm and one near the end of the semester. The course will conclude with a final term paper.

Course Evaluation: Weekly postings to the discussion board will make-up class participation which constitutes 40 percent of the course grade. Each exam will be worth 15 percent of the final grade and the final term paper will constitute 30 percent of the overall grade.

Final Term Paper: For the final paper, students will choose one of the following topics and discuss the important epidemiological concepts that were displayed during that event or within that theory. Additional instructions will be given later on in the semester.

Topics

1. Egyptian Epidemiological Tradition
2. Epidemiology of Influenza
Course Schedule:

I. The Roman-Greek Tradition and Theory: Weeks 1-2

Readings and Concepts:

To access the e-reserve materials, go to: http://eres.lib.umn.edu/eres/default.aspx Click on Course Reserves. You can either search by department, Public Health, or instructor, Molgaard. Click on PUBH 595. 51. The password is "PUBH 595". Click on the Readings folder and download the readings for the week.

Week 1
Saracci. Introducing the History of Epidemiology. (E-reserve material)
Hippocrates. On Airs, Water and Places. (E-reserve material)
Homer. The Iliad. Book 1: Verses 10-68. (E-reserve material)

Week 2
Galen. On Food and Diet. Chapters 2 and 5 (Electronic Book available through the Mansfield Library)

To connect to this title, make sure you are logged on so that you can access university services. (http://onestop.umn.edu)

Go to http://www.lib.umn.edu/ and search for “On Food and Diet”. Click on “Galen, on food and diet [electronic resource] / Mark Grant.” Click “Connect to this title online”.

Little, Lester. Plague and the End of Antiquity. (E-reserve material)
i. Chapter 1: Life and Afterlife of the First Plague Pandemic. Pgs. 3-32

II. The Early Christian Tradition and Theory: Weeks 3-5

Readings and Concepts:

McCormick, Michael. Origins of the European Economy: Communications and Commerce AD 300-900. Chapters 1, 3, and 4. (E-reserve material)

Week 3
Chapter 1: The End of the Ancient World
i. Long-Term Trends in the Late Roman Economy
ii. People and Food
iii. Population Health

Week 4
Chapter 3: Land River Communications in Late Antiquity
i. Routes, Ships, Men
ii. Land Communications and the closing of the overland corridors
iii. River Communications and the case of the Rhone route
Week 5
Chapter 4: Sea Change in Late Antiquity
i. Transport and Commerce
ii. Public money and private ships
iii. Ports, ships, and cargoes
iv. Secular change 1: the flow of goods
v. Secular change 2: the transformation of late Roman shipping

III. The Italian Tradition and Theory: Weeks 6-10, Midterm, Week 8

Readings and Concepts:

Cipolla. *Before The Industrial Revolution.*

Week 6
Part I: A static approximation
1. Demand
2. The Factors of Production
3. Productivity and Production

Week 7
Part II: Toward a dynamic description
4. The Urban Revolution: The Communes
5. Population: Trends and Plagues
6. Technology
7. Enterprise, Credit, and Money
8. Production, Incomes, and Consumption
9. The Emergence of the Modern Age

Week 8
Cipolla. *Miasmas and Disease.*
1. The Health Boards in Italy and Epidemiological Concepts
2. ‘Miasmas, Filth, and Rubbish’
3. Medical Reports and the Florentine’s Health Magistrates
4. Doctors, Diseases, and People
5. Conclusion

Week 9
Cipolla. *Fighting the Plague in Seventeenth Century Italy.* (E-reserve material)
Chapter 1: Theory, Observation, and Policy

Week 10
Cipolla. *Faith, Reason, and the Plague.*

Week 11: SPRING BREAK

IV. The English Tradition and Theory: Weeks 12-15

Readings and Concepts:


Week 12
1. The Night-Soil Men
2. Eyes Sunk, Lips Dark Blue
3. The Investigator
4. That is to Say, Jo Has Not Yet Died
5. All Smell is Disease

**Week 13**
6. Building the Case
7. The Pump Handle
8. The Ghost Map
9. Broad Street Revisited

**Week 14**
Rosenberg, Charles. *The Cholera Years: The United States in 1832, 1849, and 1866.* (E-reserve material)

**Week 15**
Howard-Jones. *The Scientific Background of the International Sanitary Conferences 1851-1938.* (E-reserve material)

**V. Summary, Conclusions, Final Exam: Week 16**

**Plagiarism:** All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at [http://life.umt.edu/vpsa/documents/StudentConductCode1.pdf](http://life.umt.edu/vpsa/documents/StudentConductCode1.pdf).

Plagiarism is the representing of another's work as one's own. It is a particularly intolerable offense in the academic community and is strictly forbidden. Students who plagiarize may fail the course and may be remanded to Academic Court for possible suspension or expulsion. (See UM Student Conduct Code).

Students must always be very careful to acknowledge any kind of borrowing that is included in their work. This means not only borrowed wording but also ideas. Acknowledgment of whatever is not one's own original work is the proper and honest use of sources. Failure to acknowledge whatever is not one's own original work is plagiarism. (Source: [http://libguides.lib.umt.edu/plagiarism](http://libguides.lib.umt.edu/plagiarism)).

**Accommodation:** In accordance with University of Montana’s mission to provide equal educational opportunities for all students, necessary accommodations for students with disabilities will be made whenever possible. If you require accommodations, please provide written information regarding your disability from the Disability Services as soon as possible so that accommodations can be made.