

## MPH – One Health Concentration Curriculum and Recommended Course Sequencing

### MPH – One Health Curriculum Effective for 2017-2018 Academic Catalog

#### **Required Core Courses for MPH (15 units)\***

EPID 573A Basic Principles of Epidemiology (3)  
PHPM 574 Public Health Policy & Management (3)  
EHS 575 Environmental & Occupational Health (3)  
BIOS 576A Biostatistics in Public Health (3)  
HPS 577 & Sociocultural & Behavioral Aspects of Public Health (3)  
Internship Preparation Workshop (no credit)

#### **Required Courses (15 units)**

EPID 660 Infectious Disease Epidemiology\*\*\* (3)  
ACBS 570 – One Health\*\*\* (3)  
EPID 679 One Health Applications and Practice (F)(3)\*\*\*  
EPID 596D Public Health Experience – Student Epidemiology Response Team (SAFER) (2)\*\*  
EPID 909 Master's Report "Internship" (4)\*\*

**Required Selectives (12 units)** – see page 2 for list from HUMAN, ANIMAL/PATHOGEN, ENVIRONMENT and METHODS

### **MPH Epidemiology Total Minimum Credit Requirements: (42 units)**

#### **Recommended Course Sequencing**

##### **First Year**

##### **Fall Semester (12 units)**

EPID 573A Basic Principles of Epidemiology (3)\*  
BIOS 576A Biostatistics in Public Health (3) \*  
PHPM 574 PH Policy & Management (3)\*  
**or** EHS 575 Environmental & Occup Health (3)\*  
HPS 577 Sociocultural & Behav Aspects of PH (3)\*

##### **Spring Semester (11 units)**

EPID 660 Infectious Disease Epidemiology\*\*\* (3) **or**  
ACBS 570 – One Health\*\*\* (3)  
EPID 596D SAFER (2)\*\*  
PHPM 574 PH Policy & Management (3)\*  
**or** EHS 575 Environmental & Occup Health (3)\*  
Selective course (3) – see list below  
Internship Preparation Workshop (no credit)

##### **Summer Session (0-4 units)**

EPID 909 Master's Report "Internship" (1-2 units; typically 1 unit)  
(To conduct the internship you must be enrolled)  
One Health Selective (3) – optional  
Service Learning Courses (3) - optional

##### **Second Year**

##### **Fall Semester (9-11 units)**

EPID 679 One Health Applications and Practice\*\*\* (3)  
One Health Selective – Human, Animal, Enviro **or** Methods (3)  
One Health Selective – Human, Animal, Enviro **or** Methods (3)  
EPID 909 Master's Report "Internship" (0-2, typically 0) §

##### **Spring Semester (9-12 units)**

EPID 660 Infectious Disease Epidemiology\*\*\* (3) **or**  
ACBS 570 – One Health\*\*\* (3)  
One Health Selective – Human, Animal, Enviro **or** Methods (3)  
One Health Selective – Human, Animal, Enviro **or** Methods (3)  
EPID 909 Master's Report "Internship" (1-3, often 3) §

\*MPH required core courses are offered fall & spring semesters, allowing flexibility. Offered online one semester.

\*\* This course is offered both fall and spring semesters

\*\*\* This course only offered in this specific semester not in both fall and spring.

& Students planning an infectious disease related MPH Internship are encouraged to take EPID 660 spring year 1.

§ **EPID 909 Master's Report "Internship" – Prerequisite Courses:** At least 3 MPH core courses and EPID 596D before starting Internship & all 5 MPH core courses completed before your last semester when you finalize writing your Internship Report. EPID 909 typically is taken in multiple semesters.

**NOTE:** EPID 660 and HPS 577 are offered during the same time slot in spring, so plan accordingly.

Students must take ***at least one*** course from ***each*** of the four areas (Human, Animal, Environment, Methods)

Course	Instructor	Semester	Units
<b>HUMAN</b>			
HPS 533 Fundamentals of Global Health	Ehiri	Spring	3
EPID 606 Infectious Disease, Global Health and Development	Ernst & Duncan	Fall	4
EHS 539A Outbreaks and Environmental Microbiology: Then and Now	Sexton	Summer (Online)	3
EPID 671 Social Epidemiology	Oren	Fall	3
<b>ANIMAL/PATHOGEN</b>			
ACBS 530 Food Microbiology and Biotechnology	Ravishankar	Spring	3
ACBS 503R Biology of Animal Parasites	Wright	Spring	3
IMB 520 Pathogenic Bacteriology	Viswanathan	Fall	3
ACBS 549 Disease of Wildlife	King	Fall	3
ACBS 505 – Principles of Livestock Mgmt	Cuneo	Spring	3
ECOL 557 Medical Veterinary Entomology	Riehle	Spring	3
ACBS 519 General Immunological Concepts	Wilbur	Fall	3
ACBS 566 Principles of Disease	Riggs	Fall	3
<b>ENVIRONMENT</b>			
RNR 558 Ecosystem Ecology and a Sustainable Future ( <i>highly recommended</i> )	Gallery/Moore	Spring	3
RNR 540 Climate Change Adaptation: Perspectives at the Nexus of Science, Society and Resource Mania	Garffin & Fisher	Fall & Spring	3
<b>METHODS</b>			
EPID 676 Spatial Epidemiology	Brown	Spring	3
EHS 518 Introduction to Risk Assessment	Reynolds	Fall	3
BIOS 576B Biostatistics for Research	Roe	Spring	3
EHS 603 Applied Analysis of Environmental Data	Canales	Spring (even)	
EHS 604 Modeling Exposures to Environmental Hazards	Canales	Spring (odd years)	
EPID X Measurement	Dennis		