Fay W. Boozman College of Public Health

MPH Concentration in Biostatistics (BIOS)

Option:
___ MPH in BIOS

Advisee's Name	Student ID Number	Faculty Advisor

PLAGIARISM TRAINING	Completion Date
Certification Test	
WRITING MILESTONE	
Skills Certification	
IPE EXPOSURE (NOVICE)	
Exposure Workshop	
Transition (Exposure to Immersion)	
IPE IMMERSION (INTERMEDIATE)	
Quadruple Aim Project	
Simulation Activity	
IPE COMPETENCE (ADVANCED)	
Competency Workshop	
Required Practice Activity	
Student Educator Activity	

Plagiarism Training Requirement: All students in the COPH must adhere to the highest standards of professional and ethical conduct. Among these standards is the recognition that student written work must be original and appropriately cited. In order to facilitate understanding of this standard, all students must complete the on-line course "*How to Recognize Plagiarism: Tutorials*" at https://plagiarism.iu.edu/tutorials/ and complete the Certification Test at https://plagiarism.iu.edu/certificationTests/index.html. Upon successful completion of the test, students must provide a copy of the Validation Certificate to the COPH Office of Student Affairs at cophoffice@uams.edu. The requirement must be completed by the first day of classes.

Writing Milestone Requirement: All students who enter the College of Public Health will be required to complete a Writing and Reasoning Skills Assessment at the beginning of their first semester. The Assessment will identify strengths and weaknesses and highlight opportunities for improvement. Students who do not meet a predetermined score will be required to complete an online Public Health Writing Workshop course. This course will address the fundamentals of good writing, writing with scholarly sources, revision strategies, and other topics in the interest of improving student writing skills. This is a non-credit curriculum requirement.

IPE Curriculum Requirement: As of the Fall 2015 semester, all COPH degree-seeking students are required to complete the UAMS Quadruple Aim Interprofessional Education (IPE) Program prior to graduation. According to the World Health Organization (WHO), *"Interprofessional Education occurs when two or more professions learn with, from and about each other to improve collaboration and the quality of care."* The IPE Program is noncredit hour earning and

Quadruple AIM IPE Curriculum Framework

COPH – MPH Program

1 Exposure Workshop
Exposure Workshop
Format/Event: Onsite/Online workshop in August or Online in January.
Timeline: 1st Semester
Course Association: NA
Notes: Enroll 1st semester and complete by the end of 12th credit hour.

2 Bridge Activity
Exposure Bridge Transition
Format/Event: Exposure Bridge Transition. Any onsite event posted on the IPE website.
Timeline: 1st Semester
Course Association: NA
Notes: Enroll 1st semester. Requirements include submitting a reflection and verification form into Blackboard within 7 days of activity. Complete by the end of 12th credit hour.

3 Quadruple Aim Project
Immersion Quadruple Aim Project (QAP) Workshop
Format/Event: Quadruple Aim Project (QAP) Workshop. Any event posted on the IPE website.
Timeline: 12th—24th credit hour
Course Association: NA
Notes: Enroll the semester of your 12th credit hour.

4 Simulation
Immersion Simulation
Format/Event: Any onsite event posted on the IPE website.
Timeline: 12th—36th credit hour
Course Association: NA
Notes: Enroll the semester of your 12th credit hour.

5 Competence Workshop
Competence Workshop
Format/Event: Competence Workshop - Any event posted on the IPE website.
Timeline: 24th credit hour and completion of degree
Course Association: NA
Notes: Enroll the semester of your 24th credit hour.

6 Practice Activity
Competence Practice Activity
Format/Event: Onsite Competence Practice Activity – APE Course
Timeline: 24th credit hour and completion of degree
Course Association: COPH 5989 "Applied Practice Experience" (APE). This IPE activity is an assignment for the course.
Notes: Enroll the semester of your 24th credit hour. Requirements include submitting a reflection and verification form into Blackboard within 7 days of activity.

7 Student Educator
Competence Student Educator Activity
Format/Event: Onsite Student Educator Activity – ILE Course
Timeline: 24th credit hour and completion of degree
Course Association: COPH 5992 "Integrated Learning Experience Project" (ILE). This IPE activity is an assignment for the course.
Notes: Enroll the semester of your 24th credit hour. Requirements include submitting a reflection and verification form into Blackboard within 7 days of activity.

Office of Interprofessional Education

consists of several workshops and other activities. All aspects of the IPE Program must be completed prior to degree program completion as a condition of graduation. For more information on **IPE**, please consult the Office of Student Affairs, the Associate Dean for Student and Alumni Affairs or visit our website: https://secure.uams.edu/cophstudent/student-handbook.aspx#ipe.

Biology Competence Requirement: Students are required to pass all 3 exams or successfully complete (3) 1 credit hour courses prior to or within the first semester of coursework. Courses do NOT count toward the minimum 42 credit hours for the MPH degree. For more information and waiver options visit our website: http://publichealth.uams.edu/students/current-students/public-health- biology-competency-exam/.

ALL BIOS OPTIONS

BIOLOGY (REQUIRED)		Credit Hours	Grade	Year	Semester
ENVH 5011	Biology for Public Health: Infectious Disease	1			
ENVH 5002	Biology for Public Health: Chronic Disease	1			
ENVH 5003	Biology for Public Health: Current Issues	1			
MPH CORE – 18 Credit Hours		**Credit Hours**	**Grade**	**Year**	**Semester**
COPH 5003	Introduction to Public Health	3			
BIOS 5013	Biostatistics I	3			
ENVH 5102	Environmental and Occupational Health	3			
HPMT 5103	The Health Care System	3			
HBHE 5104	Health Behavior & Health Education	3			
EPID 5112	Epidemiology I	3			
BIOS CORE – 9 Credit Hours		**Credit Hours**	**Grade**	**Year**	**Semester**
BIOS 5212	Biostatistics II: Advanced Linear Models	3			
BIOS 5223	Biostatistics III: Multivariate Analysis and Linear Models	3			
BIOS 5213	Biostatistics Computing with SAS I	3			

MPH in BIOS

SELECTIVES FOR MPH STUDENTS (with approval of MPH advisor) – 3 Credit Hours		Credit Hours	Grade	Year	Semester
BIOS 5111	Biostatistics Computing with R I	1			
BIOS 5200	Biostatistics Computing with R II	1			
BIOS 5233	Statistical Methods for Clinical Trials	3			
BIOS 5315	Logistic Regression and Survival Analysis	3			
BIOS 5214	Categorical Data Analysis	3			
BIOS 5317	Biostatistics Computing with SAS II	3			
BIOM 5108	Special Topics in Biometry (SPSS Lab)	1			
ELECTIVE FOR MPH STUDENTS (with approval of MPH advisor) – 3 Credit Hours		**Credit Hours**	**Grade**	**Year**	**Semester**
		3			

ALL BIOS OPTIONS

PUBLIC HEALTH PRACTICE (REQUIRED) – 6 CREDIT HOURS		Credit Hours	Grade	Year	Semester
COPH 5989	Applied Practice Experience	3			
	TITLE:				
COPH 5991	Integrative Learning Experience Seminar	1			
COPH 5992	Integrative Learning Experience Project	2			
	TITLE:				

MINIMUM TOTAL HOURS = 42

MPH Concentration: Biostatistics		
Competency	**Course**	**Assessment**
1. Evaluate statistical associations based on multivariate methods.	BIOS 5212 Biostatistics II: Advanced Linear Models	Exams. Students will have two in-class exams and a final exam. Questions on these exams present scenarios in which a study must evaluate and interpret associations between sets of outcomes and predictors for various research settings. Assessment. A student will be evaluated based on correctly identifying the importance of associations in terms of statistical significance within the exam case studies. Grading. Grading will be performed as described in the course syllabus.
2. Produce computer code for data management and statistical analyses.	BIOS 5213 Biostatistics Computing with SAS I	Exams. Students will have 2 exams during which they are given data and asked to create computer code to process, recode, or summarize the data. Grading will focus on whether students can accomplish each data management task and produce appropriate descriptive statistical results. Grading will be performed as described in the course syllabus.
3. Choose the appropriate assumptions of fundamental linear models.	BIOS 5212 Biostatistics II: Advanced Linear Models	Exams. Students on exam 2 and 3 will be asked to choose the appropriate assumptions for fundamental statistical tests. Assessment. Students will be evaluated by correctly mapping the statistical assumptions to particular statistical tests. Grading will be performed as described in the course syllabus.
4. Examine graphical displays of data that accompany statistical analysis.	BIOS 5223 Biostatistics III: Multivariate Analysis & Linear Models	Exams. Students will be given multiple case studies on exams in which various statistical analyses and corresponding graphical displays are presented. Assessment. The student will be evaluated by correctly interpreting and stating the important elements of the graph based on the analysis of each case study. Grading. Grading will be performed as described in the course syllabus.
5. Evaluate hypothesis tests for comparing two or more groups with respect to a covariate.	BIOS 5212 Biostatistics II: Advanced Linear Models	Exams. Students will be given various case studies on exams in which two or more groups are being compared while accounting for one or more covariates. Assessment. Evaluation will focus on the student's ability to correctly determine the difference between groups while adjusting for the covariates. Grading. Grading will be performed as described in the course syllabus.