Master of Public Health (MPH) Curriculum

Effective Fall 2022

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General Information

The Master of Public Health (MPH)

SPPH 5307: Introduction to Epidemiology
This course will introduce students to the fundamental principles of epidemiology. Students will be introduced to quantitative data collection methods as well as being taught how to interpret results of data analysis for public health research, policy, or practice. Ultimately, this course will equip students with the necessary information to apply epidemiological methods to the breadth of settings and situations in public health practice.

SPPH 5310: Public Health Policy
This course presents competencies surrounding public health policy formulation. The main focus will be on the policy issues in the U.S. health care system, but some global health will be explored. The course will include application of principles of policy formulation, development budgeting, implementation, evaluation and analysis. An historical overview of seminal health policy events in U.S. history is also explored through competing stakeholder dynamics. (

SPPH 5311: Introduction to Biostatistics
This course will introduce students to basic biostatistics as used in public health practice. Through the utilization of SPSS software, students will learn to interpret their statistical analysis result

SPPH 5337: The U.S. Healthcare System
This course provides an overview of healthcare in the United States. The historical context as well as trends that could impact the healthcare system is presented. Several aspects of health care systems and services are explored

SPPH 5350: Public Health Ethics and Law
This course will address epis intended to introduce students to key concepts of law and ethics as applied to public health. It seeks to demonstrate, with both current and historical examples, constrains in public health decision making and actions. This course will help students identify and appropriately assess legal and ethical issues that underlie the field of public health.

communication strategies; and engagement of rural and urban communities using theory-informed models.

SPPH 5314: Planning and Developing Health Promotion Interventions

This course will take the student through the process of intervention development, beginning with the assessment needed to understand determinants of health and behavior through the mapping of determinants, development of strategies and methods, and preparing for evaluation. Students will work in small groups on a complex public health problem and will develop an intervention to address that problem.

SPPH 5321: Program Evaluation

Students will learn the basics of public health program evaluation. Combining the CDC Framework for Program Evaluation with theory-based evaluation principles, students will learn how to engage stakeholders, describe public health programs, design evaluations, gather credible evidence, and justify conclusions to ensure maximum use of evaluation findings for program stakeholders and evidence-based public health programming.

SPPH 5327: Social Epidemiology

This class focuses on social, behavioral, and environmental contributors to population health and well-being. This course will include analysis and discussion of the data, methods, and research ethics relevant to social epidemiology, and students will be expected to develop and refine population-based solutions to complex social and structural factors that impact population health. The course examines how structural biases and social inequality impact health at the local, national, and global level, and considers how issues of cultural competence are relevant to addressing health disparities.

SPPH 5317: Health Communication

SPPH 5308: Advanced Epidemiology Methods
This three-semester hour course will review selected articles from the epidemiologic and biostatistical literature that are of historical importance.

SPPH 5309: Basic Environmental Health Sciences
This course is an overview of the major areas of environmental health and provides students with an understanding of hazards in the environment, the effects of environmental contaminants on health, and various approaches to address major environmental health problems. Areas of emphasis are environmental epidemiology, toxicology, agents of environmental disease and policy and regulation.

SPPH 5312: Intermediate Biostatistics
The objective of this course is to expand upon the basic concepts of statistical reasoning developed in SPPH 5311 (Introduction to Biostatistics) to selected applications of biostatistical analysis: simple and multiple linear regression, contingency table analysis, logistic regression, and analysis of variance. The course also includes introductions to survival analysis, repeated measures data, and nonparametric methods.

SPPH 5314: Planning and Development Health Promotion Interventions
This course will take the student through the process of intervention development, beginning with the assessment needed to understand determinants of health and behavior through the mapping of determinants, development of strategies and methods, and preparing for evaluation. Students will work in small groups on a complex public health problem and will develop an intervention to address that problem.

SPPH 5316: Responsible Conduct of Research and Communication in Public Health
This course applies an active, participatory approach to help public health and health care professionals learn about the regulatory environment as well as the norma12 0 612 7(ee)4(thi)-3(c)4(p publi)-3(c

SPPH 5321: Program Evaluation
Students will learn the basics of public health program evaluation. Combining the CDC
Framework for Program Evaluation with theory-

complications of pregnancy, infections in pregnancy, maternal mortality, adverse pregnancy outcomes, and birth defects. The course focuses on methodological issues in studying reproductive and perinatal outcomes using epidemiologic study designs, while incorporating life course and global health perspectives.

SPPH 5336: Digital Health: Foundation and Applications
This class will explore the use of digital health technologies as they are currently being used in the field of public health. Class will include discussions of innovative public health programming ideas, and evidence-based practices using digital health technologies.

SPPH 5337: The U.S. Healthcare System
This course provides an overview of healthcare in the United States. The historical context as well as trends that could impact the healthcare system is presented. Several aspects of health care systems and services are explored.

SPPH 5340: Data Management and Analysis for the Health Sciences.

related to public health design, data management, and data analysis using SPSS and SAS software packages.

SPPH 5341: Applied Statistics for Epidemiology and Health Sciences
This course is designed for students who seek to develop statistical reasoning in epidemiology, as well as skills in data analysis, interpretation, and presentation. This course places special emphasis on applied statistics and modeling techniques. Common statistical models for continuous, categorical and count data from both cross-sectional and longitudinal studies will be implemented. During this course, students will discuss advanced epidemiologic methods issues that one may encounter during data analysis with guidance from the course director. Theoretical principles will be demonstrated with real world examples from biomedical studies. This course requires substantial statistical computing in software packages SPSS and/or SAS.R: some familiarity with one of these packages is recommended but not required. (F, O, H, IVC)

important political instrument allowing communities and regions to tell their stories
(Geo)graphically representing data social and environmental d
simple programming language, is extremely useful in terms of GIS since many
(or most) of the different GIS Software packages (such as ArcGIS, QGIS, PostGIS etc.) provide
an interface to do analysis using Py

Schedule of core and required courses

The following table shows the semesters in which the core and required courses are offered. All courses in the summer semester are offered only online. Most courses in the fall and spring semesters are offered concurrently in face-to-face and online formats.

Summer	Fall	Spring
SPPH 5313: Introduction to Public Health *	SPPH 5304: Social & Behavioral Sciences	SPPH 5307: Introduction to Epidemiology
SPPH 5304: Social & Behavioral Sciences	SPPH 5311: Introduction to Biostatistics	SPPH 5310: Public Health Policy
SPPH 5310: Public Health Policy	SPPH 5313: Introduction to Public Health	SPPH 5314: Planning and Developing Health Promotion Interventions
SPPH 5311: Introduction to Biostatistics	SPPH 5315: Organizational Leadership and Management	SPPH 5318: Health Promotion and Communication Seminar
SPPH 5334: Community Based Methods and	SPPH 5316: RCR & Communication in Public Health	SPPH 5327: Social Epidemiology
SPPH 5337: US Healthcare system	SPPH 5317: Health Communication	SPPH 5337: US Healthcare system
SPPH 5307: Introduction to Epidemiology	SPPH 5321: Program Evaluation	SPPH 5334: Community Based Methods and Practice
SPPH 5315: Organizational Leadership and Management	SPPH 5350: Public Health Ethics and Law	Elective
SPPH 5316: RCR & Communication in Public Health	Elective	Elective
SPPH 5321: Program	Elective	Elective
	Elective	
Electives		
Applied Practice Experience*	Applied Practice Experience	Applied Practice Experience
Integrated Learning Experience*	Integrated Learning Experience	Integrated Learning Experience

* Course is always offered in the summer semester regardless of odd- or even-year;   Course is only offered in even-year summer semesters;   Course is only offered in odd-year summer semesters

The table below shows the schedule of core and required courses for the Master of Public Health program by academic years (AY).

Courses	AY22-23			AY23-24		
	Fall	Spring	Summer	Fall	Spring	Summer
SPPH 5313: Introduction to Public Health [a] [d]	X	X	X	X	X	X
SPPH 5307: Introduction to Epidemiology [a] [d]		X	X		X	
SPPH 5310: Public Health Policy [a] [d]		X			X	X
SPPH 5311: Introduction to Biostatistics [a] [d]	X			X		X
SPPH 5315: Organizational Leadership and Management [a] [d]	X		X	X	■	
SPPH 5334: Community Based Methods and Practice [a]		X			X	X
SPPH 5319: Applied Practice Experience [a]	X	X	X	X	X	X
SPPH 5399: Integrated Learning Experience [a]	X	X	X	X	X	X
SPPH 5316: RCR and Communication in Public Health [b]	X		X	X		
SPPH 5337: The U.S. Healthcare System [b]		X			X	X
SPPH 5350: Public Health Ethics and Law [b]	X		X	X		
SPPH 5304: Social and Behavioral Sciences [c]	X			X		X
SPPH 5314: Planning and Developing Health Promotion Interventions [c]		X			X	
SPPH 5321: Program Evaluation [c]	X		X	X		
SPPH 5327: Social Epidemiology [c]		X			X	
SPPH 5317: Health Communication [c]	X					

Degree plans:

General Public Health focus

A. Accelerated online program

A.1 Even-year summer start

Semester	Credit hours
Summer	
SPPH 5313-Introduction to Public Health	3
SPPH 5311-Introduction to Biostatistics	3
SPPH 5310-Public Health Policy	3
SPPH 5334-Community Based Methods and Practice	3
	12
Fall	
SPPH 5315-Organizational Leadership and Management	3
SPPH 5316-Responsible Conduct of Research and Communication in Public Health	3
SPPH 5350-Public Health Ethics and Law	3
Elective	3
Elective	3
	15
Spring	
SPPH 5337-US Healthcare system	3
SPPH 5307-Introduction to Epidemiology	3
SPPH 5319-Applied Practice Experience	3
Elective	3
Elective	3
	15
Summer	
SPPH 5399-Integrated Learning Experience	3
	3
Total credit hours	**45**

B. Regular online program

B.1 Even-year summer start

Semester	Credit hours
Summer	
SPPH 5313-Introduction to Public Health	3
SPPH 5310-Public Health Policy	3

B. Regular online program

B.

B. Regular online program

B.4 Odd-year fall start

B. Regular online program

B.5 Even-year spring start

Semester	Credit hours
Spring	
SPPH 5307-Introduction to Epidemiology	3
SPPH 5337-US Healthcare system	3
SPPH 5310-Public Health Policy	3
	9
Summer	
SPPH 5313-Introduction to Public Health	3
	3
Fall	
SPPH 5311-Introduction to Biostatistics	3
SPPH 5350-Public Health Ethics and Law	3
SPPH 5316-Responsible Conduct of Research and Communication in Public Health	3
3-Hours	3
	12
Spring	
SPPH 5334-Community Based Methods and Practice	3
Elective	3
Elective	3
	9
Summer	
SPPH 5319-Applied Practice Experience	3
	3
Fall	
SPPH 5315-Organizational Leadership and Management	3
SPPH 5399-Integrated Learning Experience (capstone course)	3
Elective	3
	9
Total credit hours	**45**

C. Regular face-to-face program

C.2 Odd-year fall start

Semester	Credit hours
Fall	
SPPH 5350-Public Health Ethics and Law	3
SPPH 5311-Introduction to Biostatistics	3
SPPH 5313-Introduction to Public Health	3
SPPH 5316-Responsible Conduct of Research and Communication in Public Health	3
	12
Spring	
SPPH 5307-Introduction to Epidemiology	3
SPPH 5337-US Healthcare system	3
SPPH 5310-Public Health Policy	3
SPPH 5334-Community Based Methods and Practices	3
	12

C. Regular face-to-face program

C.3 Even-year spring start

Semester

C. Regular face-to-face program

C.4 Odd-year spring start

C. Regular face-to-face program

C.5 Even-year summer start

Semester	Credit hours
Summer	
SPPH 5313-Introduction to Public Health	3
SPPH 5310-Public Health Policy	3
	6
Fall	
SPPH 5350-Public Health Ethics and Law	3
SPPH 5311-Introduction to Biostatistics	3
SPPH 5316-Responsible Conduct of Research and Communication in Public Health	3
	9
Spring	
SPPH 5307-Introduction to Epidemiology	3
SPPH 5334-Community Based Methods and Practice	3
SPPH 5337-US Healthcare system	3
	9
Summer	
SPPH5399-Applied Practice Experience	3
	3
Fall	
SPPH 5315-Organizational Leadership and Management	3
Elective	3
Elective	3
	9
Spring	
SPPH 5399-Integrated Learning Experience	3
Elective	3
Elective	3
	9
Total Credits	**45**

Degree plans:

Health Promotion and Communication Concentration

D. Health Promotion and Communication Concentration

D.2 Odd-year fall start

Semester	Credit hours
Fall	
SPPH 5311-Introduction to Biostatistics	3
SPPH 5313-Introduction to Public Health	3
SPPH 5304-Social and Behavioral Sciences	3
SPPH 5317-Health Communication	3
	12
Spring	
SPPH 5307-Introduction to Epidemiology	3
SPPH 5310-Public Health Policy	3
SPPH 5314-Planning and Developing Health Promotion Interventions	3
SPPH 5334-Community Based Methods and Practices	3
	12
Summer	
SPPH 5319-Applied Practice Experience	3
	3
Fall	
SPPH 5315-Organizational Leadership and Management	3
SPPH 5321-Program Evaluation	3
Elective	3
	9
Spring	
SPPH 5399-Integrated Learning Experience	3
SPPH 5327-Social Epidemiology	3
SPPH 5318-Health Promotion and Communication Seminar	3
	9
Total credit hours	**45**

D. Health Promotion and Communication Concentration

D.3 Even-year spring st/F13ation

D. Health Promotion and Communication Concentration

D.4 Odd-

Degree plans:

Dual-degree programs

E.1 MPA-MPH degree program

E.1.1 Even-year summer start

Summer

E.1 MPA-MPH degree program

E.1.2 Odd-year summer start

Semester	Credit hours
Summer	
SPPH 5313-Introduction to Public Health	3
SPPH 5350-Public Health Ethics and Law	3
	6
Fall	
PUAD 5340-Public Administration Theory and Practice	3
PUAD 5319-Research Methods in Public Administration	3
SPPH 5311-Introduction to Biostatistics	3
	9
Spring	
PUAD 5345-Administrative Ethics and Leadership	3
SPPH 5307-Introduction to Epidemiology	3
SPPH 5337-US Healthcare system	3
	9
Summer	
Elective	3
	3
Fall	
PUAD 5352-Public Policy Analysis	3

PUAD 5337-Public Org熇ℰ䔀倄᐀̄唄¥àÈ

	9
Summer	
PUAD 5347-Internship in Public Administration/SPPH 5319-Applied Practice Experience	3

E.2 PharmD-MPH degree program

E.2.1 Even-year summer start

Semester	Credit hours
1st Summer--P-0	
SPPH 5311-Introduction to Biostatistics	3
SPPH 5337-US Healthcare system	3
SPPH 5310-Public Health Policy	3
SPPH 5334-Community Based Methods and Practice	3
	12
2nd Summer--P-1	
SPPH 5350-Public Health Ethics and Law	3
SPPH 5307-Introduction to Epidemiology	3
SPPH 5313-Introduction to Public Health	3
SPPH 5316-Responsible Conduct of Research and Communication in Public Health	3
	12

3rd Summer--P-2

E.3 MD-MPH degree program

E.3.1 Even-year summer start

Semester	Credit hours

E.3 MD-MPH degree program