

## Course Overview

### BSPH 3100 Introduction to Public Health

Introduction to Public Health introduces the history, philosophy and concepts of public health. This course will focus on the population perspective of health and approaches and strategies to identify health problems, develop strategies to reduce adverse health problems and improve the health of population. The course will explore health issues, past and present, in order to gain an understanding of the disease or condition, gain a better understanding of how health and community issues are intertwined and outline possible next steps to address these issues.

Type of Assessment	#	Weight (%)
Discussion forums	(3)	15%
Quizzes	(1)	10%
Exams	(3)	45%
Assignments	(2)	10%
Project paper	(1)	15%
Reflection	(1)	5%
Total		100%

### BSPH 3102 Public Health Writing

Effective communication in public health through writing is a vital skill, and the primary aim of this course is to develop each student's ability to make technical information available to diverse audiences. This course focuses on written communication for public health professionals, with particular emphasis on effectively conveying information to technical audiences and translating that information for general audiences in the public arena. We will explore the principles of effective writing for technical articles, proposals, and reports with attention to structure, clarity, style, and language usage. Writing assignments stress the importance of the writing process in a range of assignments, enabling students to build writing proficiency through a combination of writing and revising assignments, selected readings, discussion sessions, and hands-on activities.

#### Total Points

Component	Points
9 Assignments	50
3 Discussion Forums (6 Discussion; 1 course reflection)	10
3 Reflections	10
Final Project	30
<b>Total = total points earned</b>	<b>100</b>

### BSPH 3200 Essential Global Health

The course introduces global public health. The course will provide the students the opportunity to consider health from a world perspective, and contrast it to public health in the US and Louisiana. Students will learn to recognize the interrelationship between the environment, culture and economics, politics and policies, living and working conditions, health care services, ethics, and personal risk factors.

Assessment	Number	Points	% of Grade
Assignment	10	310	45%
Discussion Forums	5	120	17%
Lesson	1	100	14%
Quiz	1	10	1%
Mid-term	1	50	7%
Final Exam	1	100	14%
Total		690	100%

### **BSPH 3300 Introduction to Biostatistics**

This course will serve as your introduction into statistics. All public health fields use statistics in some way. Most of the time, you simply cannot make a strong case for a cause and effect relationship without looking at statistics. We will dig into the justification for the statements that people make about the world using statistics. This course is made up of 7 modules, with an untimed quiz attached to the first 6. There are 2 exams that are also structured as Moodle quizzes, and they have time limits of 90 minutes for each. There will also be two discussion forums so that we can talk about statistics a little bit

<b>Component (#)</b>	<b>Points</b>
Quizzes (6)	60
Forums (2)	20 (1 Discussion; 1 course reflection)
Midterm Exam	40
Final Exam	40
Total	160

### **BSPH 3302 Data Analysis in Public Health**

In this course, students will learn how to use R statistical software to explore data and perform statistical analyses. By the end of the course, students will be able to read and manipulate data to answer different questions - while choosing appropriate statistical tests.

Component	#	Points
Assignments	6	66
Final Project	1	30
Discussion Forums	3	6
Module 1 Quiz	1	2
Total = total points earned 100 + 4 bonus points		

### **BSPH 3400: Introduction of Environmental Science**

This course provides a broad overview of environmental science which covers key areas associated with natural resources, environmental quality, and the human impacts on environment. This course will assist student to understand the current environmental crisis and opportunities, with a focus on sustainability.

Assessment	Percent
Midterm exam	15%
Final exam	15%
Quizzes (2%×14)	28%
Discussion forums (3%×14)	42%
Total	100%

### **BSPH 3500 Health Communication**

Health communication is now widely accepted as an important specialty within the broader spectrum of communication and public health. Through theoretical and applied foundations, this course will provide students with the basic understanding of how to effectively contextualize health communications through strategic choice of media and develop public health campaigns. Students will attain the knowledge, skills and abilities to effectively influence health behavior, enrich public discourse and health policy.

Module	Assessment	Points	% of grade
1	Quiz #1 (AEA)	15	3.9
1	Discussion Forum	20	5.2
2	Reflection	20	5.2
3	Discussion Forum	20	5.2
4	Reflection	20	5.2
5	Discussion Forum	20	5.2
6	Presentation	50	13.0
7	Reflection (AEA)	20	5.2
E1	Midterm	100	26.0
E2	Final	100	26.0

### **BSPH 3600 U.S. Health Care Systems**

This course is designed to give you an overview of the structure and functions of the U.S. health care system and the relationship between the health care delivery system and public health. We will explore the logistics of the health care system, including how it is organized, who makes up the workforce, how health care is financed, the costs and value of health care, how it is managed, and the role of information technology in this sector. Finally, we will take a look at the future of health care delivery in the U.S. and of health care policy.

Assessment	%
Module Quizzes (1, 3, 5) Quiz 1 is an Academic Engagement Activity (AEA)	3 x 10% each = 30%
Module Post and Reply (2, 4, 6)	3 x 10% each = 30%
Mid-term Exam	20%
Final Exam The Final Exam is an Academic Engagement Activity (AEA)	20%
Total	100%

### **BSPH 3700 Essentials of Epidemiology**

Essentials of Epidemiology introduces the basic concepts, methods and tools of data collection to describe and analyze public health problems. This course will focus on the principles and methods of epidemiologic investigation, appropriate summaries and displays of data, and the use of statistical approaches to describe the health of populations. Topics include the usage of rates, ratios and proportions; methods of adjustment; basic study designs; and methods and processes for addressing population health needs and challenges.

<b>Assessment</b>	<b>(#)</b>	<b>% of Grade</b>
Assignments	(5)	25%
Quizzes	(2)	20%
Discussion Forums/Journals	(3)	15%
Exams	(2)	40%
Total		100%

### **BSPH 4100 Public Health in Action**

Public health in action is an experiential learning course that will allow students to explore the principles of public health learned in the first-year course work within a community setting and reflect on those experiences. This course utilizes a service-learning approach. Service-learning is defined by the LSU Center for Community Engagement, Learning, and Leadership as “a method of teaching and learning in which students fulfill the learning goals of their academic courses while serving the community. Service-learning emphasizes hands-on experiences that address real-world concerns. The service experience provides a context for testing, observing, or trying out discipline-based theories, concepts, or skills. Likewise, the academic context enriches the service experience by raising questions about real-world concerns and providing a forum for probing these concerns in-depth. Service-learning fosters reciprocal learning and critical engagement, preparing students to be full and responsible participants in both their profession and their communities.

<b>Assignment</b>	<b>%Point</b>
40 hours of service	40
Forum & Reflection Entries	20
Write an Advocacy Letter	10
Communication Products	15
Final Project	15
Total	100

### **BSPH 4102 Health Equity**

Health Equity is a lecture-based and class participation course designed to increase the Bachelor of Science in Public Health student’s understanding of health, culture and diversity in populations. This course will explore health disparities, diversity and inclusion and encourage students to explore their own cultural experiences and bias. The goal of this course is to explore cultural diversity and the challenges presented to health professionals and to increase the cultural competency of the students as developing public health practitioners.

<b>Assessment</b>	<b>#</b>	<b>Points</b>
Assignments	7	275
Quizzes	7	70
Forums	3	35
Mid-Term	1	100
Final	1	100
Total	=	580

### **BSPH 4104 Evidence-based Public Health**

This course is the culminating, interdisciplinary experience for students enrolled in the Bachelor of Science in Public Health program. The students will be required to incorporate knowledge and prior training in the five public health disciplines – biostatistics, community and behavior health, environmental and occupational health sciences, epidemiology and health policy and systems management to analyze a current health problem and propose an intervention. During the course the students will complete an individual capstone project paper as well as a final project presentation.

<b>Assessment (#)</b>		<b>% of Grade</b>
Discussion Forums (4)		30
Reflections (3)		15
Project (5 milestones)	Outline	5
	Introduction and background	10
	Program description and implementation plan	10
	Final paper	15
	Media product	5
	Project Total	55

### **BSPH 4400: Climate Change a Public Health Perspective**

Climate change is a critical public health problem that makes many existing health conditions and diseases worse, and probable future health impacts include the introduction of new pathogens and pests into new regions. The warming climate will likely cause more frequent and intense droughts and floods, more severe heat waves and hurricanes, and environmental impacts that adversely affect air and water quality. Furthermore, vulnerable populations are at increased risk for climate change related health effects. This course aims to provide students with an assessment of the current state of climate change science and the associated current and future predicted public health impacts. Adaptation and mitigation strategies on the local, regional, and national level will be explored that can increase the resiliency and sustainability of communities in the context of climate change impacts.

Assessment	Percent
Midterm exam	15%
Final exam	15%
Quizzes (2%×11)	22%
Discussion forums (3%×11)	33%
Reflection papers (5%×3)	15%
Total	100%

### **BSPH 4402: Environmental Justice**

This course introduces undergraduate students to environmental justice. The field of environmental justice asks for fair treatment of all people regardless of race, ethnicity, gender, economic capacity, national origin, and education level with respect to environmental policies and their implementation. Topics include the susceptible and vulnerable populations; risk assessment and environmental justice analyses; climate justice; and specific EJ cases in Louisiana and other places. Online models, resources and tools will be used to evaluate EJ and explore policy solutions. Assignments include two reflections (10% of the grade), a digital story telling (35%), an EJ evaluation report (40%), one quiz (5%), and a policy brief (10%).

#### Assessment and Points

Discussion Forums = **10** points each or **30** points total (Modules 1, 2 and 7)

Quiz = **10** points (Module 3)

Policy Brief = **10** points (Module 4)

EJ Screen Report #1 = **15** points (Module 5)

EJ Screen Report #2 = **15** points (Module 6)

Final Project Digital Story = **20** points (Module 7)

**Total = 100** sum of points earned

### **BSPH 4500 Project Assessment and Implementation**

Project Assessment and Implementation will provide undergraduate students in public health with the fundamental background for the effective delivery of public health services. Students will be introduced to the fundamental concepts and features of project implementation, including planning, assessment, and evaluation needed for the practice of public health.

<b>Component</b>	<b>Points</b>
Quizzes (5)	75
Discussion Forums (3)	30
Written Assignments (2)	40
Exams (2)	55
Total	200

### **BSPH 4502 Foundations of Maternal and Child Health**

The course will introduce students to the maternal, child and adolescent health (MCH) programs and public health services in the U.S and to understand the history, principles, function, and organization of MCH services at the local, state, and federal levels. The course will emphasize the health, social, and economic issues currently affecting reproductive age women, infants, children, and adolescents with a focus on disparities in health among low income, minority families.

<b>Graded Assessment</b>	<b>Points</b>
Forum Module 1	15
Quiz Module 1	15
Forum Module 2	15
Written Assignment Module 2	10
Quiz Module 2	15
Mid Term Exam (Module 3)	25
Video or Podcast Module 4	15
Quiz Module 4	10
Adolescent Discussion Forum Module 5	15
Quiz Module 5	10
Journal activity sugary drinks Module 6	10
Quiz Module 6	10
Quiz Module 7	10
Final Project	25
Total Points	200

### **BSPH 4600 Public Health Policy and Advocacy**

Public Health Policy and Advocacy provides students with an engaging and innovative introduction to public health policy and advocacy. Specifically, it provides knowledge on the purpose of public health policy and advocacy, its origins and how it is implemented in practice. The course will provide the underlying theories and analytical tools needed for effective advocacy and communication. The course will use real examples from practice to aid with transferring this knowledge to students. Prerequisites: BSPH 3600

### **BSPH 4602 Public Health Organizations and Leadership**

Public Health Organizations and Leadership examines management functions, concepts and principles as well as the manager's role within the new and changing health care delivery systems with particular attention to the public health arena. This course provides the students with a base of knowledge regarding the principles of management, the legal and ethical bases for public health, and skills for communicating and building partnerships with community partners. Prerequisites: BSPH 3600 AND BSPH 4600

<b>Module</b>	<b>Assessment</b>	<b>Description</b>	<b>Percent</b>
1	Quiz	Module 1 Quiz	10
2	Discussion Forum	Skills	10
2	Project	Project Topic	5
3	Project	Draft paper	10
4	Quiz	Module 4 Quiz	10
5	Discussion Forum	Servant Leadership	10
6	Project	Final paper	20
7	Discussion Forum	Emergency preparedness	10
Final	Exam	Final Exam	15
	Total		100

### **BSPH 4604 Fundamentals of Healthcare Analytics**

Fundamentals of Health Analytics introduces to common types of health data along with data storage, retrieval and management. The course will include how to use different analytic tools to transform data into useful information and report the health data to stakeholders. Students will have the opportunity to explore data through in-class exercises and homework assignments. In the final project students will produce a report portfolio designed for a stakeholder/industry category. Prerequisites: BSPH 3600 AND BSPH 4600

#### **Grade Breakdown**

##### **Percent**

Lessons (7 lessons worth 2% each)	14%
Discussion Forums (7 forums worth 2 % each)	14%
Quizzes (7 quizzes worth 6% each )	42%
Midterm Exam	15%
Final Exam	15%
Total	100%



### **BSPH 4702 GIS and Public Health**

This course examines geographic information systems (GIS) applications in public health. Classwork will be presented in the form of health-related case studies based on research topics pertinent to students in the School of Public Health, where GIS is used to formulate and address scientific hypotheses. Specifically, the ArcGIS software will be presented as a tool for integrating, manipulating, and displaying spatial health data. Topics include understanding spatial data, mapping, topology, spatial manipulations related to data structures, online data, geocoding, remote sensing imagery, and mobile technology.

Category	Number	Weight
Assignments	6	40
Forums	3	10
Quizzes	3	10
Project	4	30
Reflections	3	10
Total		100

### **BSPH 4704 Outbreak!**

This course is an introduction to infectious disease outbreaks for undergraduate students interested in learning more about epidemiology, outbreaks, and public health. Students will explore tools and methods used by outbreak investigators to stop the spread of outbreaks in populations and to prevent future outbreaks. Students learn about outbreak detection, investigation and response activities and methodologies through a combination of lectures, activities, and assignments.

<b>Course Assessments</b>	<b>% of Grade</b>
Assignments (6)	30%
Quizzes (2)	15%
Discussion Forums/Journals (3)	15%
Exams (2)	40%
Total	100%