## PUBLIC HEALTH (AS DEGREE S0428)

## Natural Sciences Division Degree S0428

The AS degree in Public Health at Mt San Antonio College is an interdisciplinary program grounded in the biological sciences and designed to prepare students for entry level employment in public health fields. Students completing this program will exemplify a high level of health literacy and will be exposed to a large variety of disciplines. Through this preparation, they will improve their understanding of the relationship of the environment to health, recognize and evaluate the economic impact of changing demographics on health care, identify and control disease outbreaks, and develop interventions to promote healthy behavior. Successful completion of this degree can lead to employment opportunities as a community or public health care worker, health educator, epidemiologist, and occupational and safety technician, as well as other health-related careers. In addition, this program can provide advancement opportunities for those completing other CTE programs in health care, such as nursing. In order to ensure adequate preparation in this field and to allow for training in specialty areas, such as environmental health, program completion requires a minimum of 61 and maximum of 64 unit credits, depending on which required courses students complete.

This suggests that some students may require an additional semester or more for completion, depending on their level of preparation on entering the program. Community college programs in public health are not yet accredited by ASPPH. This program follows the guidelines of the ASPPH in hopes that accreditation will follow as more associate level students enter the public health workforce.

This degree requires the completion of General Education coursework plus the following:

## **Required Courses**

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Course Prefix	Course Name	Units
Select one of the fo	llowing sequences:	8-10
ANAT 10A	Introductory Human Anatomy	
or ANAT 35	Human Anatomy	
ANAT 10B	Introductory Human Physiology	
or ANAT 36	Human Physiology	
ANTH 5	Cultural Anthropology	3
or SOC 1	Introduction to Sociology	
or SOC 1H	Introduction to Sociology - Honors	
BIOL 1	General Biology	4
or BIOL 4	Biology for Majors	
or BIOL 4H	Biology for Majors - Honors	
CHEM 10	Chemistry for Allied Health Majors	5
or CHEM 40	Introduction to General Chemistry	
MATH 110	Elementary Statistics	3-4
or MATH 110H	Elementary Statistics - Honors	
or PSYC 10	Statistics for the Behavioral Sciences	
or SOC 23	Introduction to Statistics in Sociology and Social Science	es
MICR 1	Principles of Microbiology	4 - 5
or MICR 22	Microbiology	
PUBH 22	Introduction to Epidemiology	3
PUBH 24	Introduction to Public Health	3
PUBH 26	Introduction to Global Public Health	3
PUBH 27	Public Health and the Environment	3

Total Units		48-52
PUBH 30	Infectious Disease Epidemiology and Outbreak Investigation	
PUBH 29	Public Health Microbiology	
PUBH 20	History of Western Medicine	
or NF 25H	Introduction to Nutrition Science - Honors	
NF 25	Introduction to Nutrition Science	
MICR 26	Introduction to Immunology	
BIOL 5	Contemporary Health Issues	
ANAT 38	Pathophysiology	
Choose two courses	s from the following	6
PUBH 28	Public Health and Bioethics	3

## **Program Learning Outcomes**

Upon successful completion of this program, a student will be able to:

- Explain how the history, philosophy, and literature of public health reflect broader social influences and movements that influence our view of health.
- Explain the population health perspective and the methods used in public health to define and address population-wide/social concerns and the needs of vulnerable populations through the provision of essential services.
- Apply options for intervention frameworks including when (primary, secondary, tertiary), who (individual, population at risk, general population), and how (education, motivation, obligation) to intervene.
- Explain principles of epidemiology that are necessary in order to understand health and impairments of health, including the uses of rates, the meaning of causation, and the evaluation of the effectiveness of interventions.
- Apply the principles of epidemiology to assigned reading of research articles, including case-control, cohort studies, and randomized clinical trials.
- Explain from a global perspective the burden of disease, socioeconomical determinants of health, the links between health and development, and approaches to global cooperation to monitor, promote, and protect health.
- Describe biological principles needed to understand public health issues across the life span and apply these principles to public health interventions to eliminate, prevent, and control disease and to minimize the impact of disease on health.
- Explain the use of clinical interventions for assessing, protecting, and improving health and preventing, detecting, treating, and minimizing the impact of disease.
- Explain the way biological, environmental, and social/cultural factors interact in disease production and understand how these influences can impact prevention strategies.
- Describe the historical examples of the changing definitions of public health in a variety of cultures and times, including major scientific advancements.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program. 1