

Courses of Public Health Study Program, Mulawarman University

SEMESTER I				
No	Course Code	Courses	Credit Hours	Description
1	MU0000603W001	<i>Religion Education</i>	3	This course helps students apply character values based on spirituality.
2	MU0000602W004	<i>Indonesia Language</i>	2	This course helps students apply the Indonesian language according to standard rules.
3	221101603W001	<i>Biomedical I (Anatomy, Physiology, and Biochemical)</i>	3	This course explains the basic concepts of anatomy, physiology, and biochemistry. After completing this course, students will be able to perform basic health measurements.
4	221101602W002	<i>Basic of Health Policy</i>	2	This course examines the application of health policies in solving public health problems.
5	221101602W003	<i>Population Studies</i>	2	This course explains the basic concepts of demography, the use of population data, and the analysis of vital statistics.
6	221101602W004	<i>Public Health</i>	2	This course discusses the basic concepts of public health, health care systems, and current public health issues.
7	MU0000602W002	<i>Pancasila</i>	2	This course explains the application of Pancasila values in national and state life.
8	221101602W005	<i>Sociology and Health Anthropology</i>	2	This course studies social and cultural characteristics of communities, local wisdom, and socio-cultural issues to analyze and explain various public health problems.
9	221101602W007	<i>Tropical Rainforest Ecology</i>	2	This course examines the relationship between tropical rainforest ecosystems and public health determinants.
Total Credits			<b>20</b>	

SEMESTER II				
No	Course Code	Courses	Credit Hours	Description
1	221101603W006	<i>Biomedical II (Microbiology, Pathology, and Parasitology)</i>	3	This course teaches the application of microbiology, pathology, and parasitology in studying public health problems.
2	MU0000602W003	<i>Civics Education</i>	3	This course teaches the application of positive attitudes that support nationalism and patriotism, democratic values, legal awareness, and diversity.
3	221101603W008	<i>Basic Epidemiology</i>	3	After completing this course, students will master the basic concepts and scope of epidemiology, including definitions and boundaries, the natural history of disease, health indicators, concepts of health data standardization, epidemiological study designs, outbreaks and epidemics, as well as the basic concepts of screening and surveillance in public health.
4	221101602W010	<i>Basic Occupational Health and Safety</i>	2	This course explains the basic concepts of occupational health and safety, workplace hazards, and existing regulations for the development of sustainable OHS service systems.
5	221101602W012	<i>Basic Environmental Health</i>	2	This course explains the basic concepts of environmental health management and environmental agent parameters.
6	221101602W013	<i>Health Communication</i>	2	This course helps students apply health communication in health promotion activities and practice within community groups.

7	221101602W014	<i>Organization and Health Management</i>	2	This course explains organizational structures and program management systems of health services at various levels.
8	221101602W015	<i>Digital Health Technology</i>	2	This course explains opportunities, potentials, challenges, and consequences of using digital technology in health, as well as its application in public health services.
Total Credits			<b>19</b>	

SEMESTER III				
No	Course Code	Courses	Credit Hours	Description
1	221101603W017	<i>Basic Biostatistics</i>	3	This course practices and examines descriptive and inferential statistics in assessing and analyzing public health situations.
2	221101603W018	<i>Basic Reproductive Health and Family Life</i>	3	This course teaches students to design effective reproductive health education programs that address reproductive and family health issues ethically and with cultural sensitivity.
3	221101602W019	<i>Epidemiology of Communicable Diseases</i>	2	This course identifies and explains the basic concepts of communicable diseases based on epidemiology, transmission, diagnosis, risk factors, control, and prevention.
4	221101602W020	<i>Epidemiology of Non-Communicable Diseases</i>	2	This course identifies and explains the basic concepts of non-communicable diseases based on epidemiology, diagnosis, risk factors, control, and prevention.

5	221101602W021	<i>Ergonomics</i>	2	This course designs ergonomic solutions for various aspects of the work environment.
6	221101602W022	<i>Nutrition and Public Health</i>	2	This course formulates appropriate solutions to community nutrition problems through specific and sensitive nutrition programs based on scientific studies.
7	221101602W023	<i>Law and Health Regulation</i>	2	This course teaches students to apply understanding of health laws and regulations in various fields of public health, including health workforce law, reproductive health, epidemiology, food and nutrition, occupational health and safety (OHS), and environmental health.
8	221101602W024	<i>Basic Health Promotion</i>	2	This course teaches students to use health promotion strategies and partnerships in addressing public health problems.
9	221101602W044	<i>Health Advocacy</i>	2	This course explains the development of health advocacy models relevant to current public health issues.
10	221101602W009	<i>Basic Nutrition</i>	2	This course explains the basic concepts of nutrition science and nutrient requirements based on body composition, as well as calculating individual or group nutritional needs.
11	221101602W011	<i>Global Health</i>	2	This course explains the concept of global health, global health systems, and the one health approach.
Total Credits			<b>24</b>	

#### SEMESTER IV

No	Course Code	Courses	Credit Hours	Description
1	221101602W025	<i>Group Dynamics</i>	2	This course applies techniques and stages of group formation, and builds cooperation and group cohesiveness in public health efforts.
2	221101602W026	<i>Food and Nutrition Ecology</i>	2	This course designs educational strategies and develops program or food product ideas based on local potential and wisdom in a creative, ethical, and sustainable way to support community food and nutrition security.
3	221101602W027	<i>Health Economics and Financing</i>	2	This course teaches the application of techniques for planning and preparing financial budgets for health programs and institutions, including budgeting processes, cost estimation, and principles of resource allocation based on efficiency and effectiveness.
4	221101603W028	<i>Gender, Reproductive, and Sexual Healthcare Services</i>	3	This course evaluates reproductive and sexual health policies or programs using a gender mainstreaming perspective.
5	221101602W029	<i>Research Methodology</i>	2	This course explains how to design good research and prepare research proposals.
6	221101603W030	<i>Public Health Field Work I</i>	3	This course teaches students to design and implement community-based public health programs through partnerships.
7	221101603W031	<i>Planning and Evaluation of Public Health Program</i>	3	This course designs health planning documents that include problem prioritization, objectives, strategies, target setting, selection of alternative activities, financing, and

				evaluation indicators.
8	221101602W032	<i>Occupational Health and Safety Management System</i>	2	This course teaches the stages of OHSMS programs to improve occupational health and safety quality and work productivity.
9	221101603W033	<i>Public Health Surveillance</i>	3	This course examines and analyzes public health situations and applies surveillance principles and practices in addressing public health problems.
10	221101602W016	<i>Environmental Quality Analysis</i>	2	This course analyzes determinants of environmental quality and applies measurements of environmental health indicators.
Total Credits			<b>24</b>	

SEMESTER V				
No	Course Code	Courses	Credit Hours	Description
1	221101602W034	<i>Leadership and Healthcare Administration</i>	2	This course explains the basic concepts, types and styles of leadership, factors that shape leadership qualities, systems thinking, and decision-making methods within a learning organization.
2	221101602W035	<i>Disaster Management</i>	2	This course explains the concepts of disaster management, disaster management regulations and policies, and international health regulations related to disasters.
3	221101602W036	<i>Data Management and Basic Analysis</i>	2	This course teaches quantitative data analysis using descriptive and bivariate inferential statistical techniques.

4	221101602W037	<i>Outbreak Management</i>	2	This course explains the concepts of outbreaks and the planning process for community outbreak response efforts.
5	221101603W038	<i>Public Health Field Work II</i>	3	This course teaches students to design and implement public health programs in health service institutions.
6	221101602W039	<i>Community Organizing and Empowerment</i>	2	This course teaches students about community organizing and mobilization efforts to support community empowerment activities.
7	221101602W040	<i>Nutritional Status Assessment</i>	2	This course applies various methods of nutritional status assessment, and analyzes and evaluates the nutritional status of individuals and populations.
8	221101603W041	<i>Public Health Program Planning on Tropical Rainforest Areas</i>	3	This course designs public health programs in tropical rainforest areas, particularly in mining, plantation, and industrial zones.
9	221101602W042	<i>Health Information System</i>	2	This course explains health information systems, covering basic concepts, analysis of the national health system situation, and the development of health information systems and their applications in public health services.
10	221101602W043	<i>Environmental Health Technology</i>	2	This course designs appropriate technology programs to address environmental health problems.
11		<i>Introduction to Entrepreneurship</i>	2	This course explains theories and concepts of entrepreneurship.
Total Credits			<b>24</b>	

## SEMESTER VI

Specialization Courses in Health Administration and Policy				
No	Course Code	Courses	Credit Hours	Description
1		<i>Advanced Entrepreneurship</i>	2	This course develops stages of entrepreneurship advancement in the field of public health.
2	221101603P045	<i>Advanced Health Policy</i>	3	This course teaches students to prepare policy and advocacy documents such as policy briefs, academic papers, legal drafting, and other advocacy documents.
3	221101602P046	<i>Health Financing Management</i>	2	This course explains health financial management and sources of health service financing.
4		<i>Health Insurance</i>	2	This course explains the basic concepts and principles of health insurance.
5	221101602P048	<i>Health Logistics Management</i>	2	This course studies methods of planning health logistics and monitoring their utilization.
6	221101602P049	<i>Healthcare Quality Management</i>	2	This course explains the implementation of quality management in health services.
7	221101602P050	<i>Human Resources Management for Health</i>	2	This course explains health human resource management and comprehensive health workforce recruitment systems.
8	221101602P051	<i>Strategic Management for Health</i>	2	This course explains the preparation of strategic plans, operational plans, and other strategic health documents.
9	221101603P106	<i>Hospital and Public Health Services Center Management</i>	3	This course analyzes organizational systems, operational management, and strategic policies of hospitals and community health centers.
Total Credits			<b>20</b>	



<b>SEMESTER VI</b> <b>Specialization Courses in Biostatistics</b>				
<b>No</b>	<b>Course Code</b>	<b>Courses</b>	<b>Credit Hours</b>	<b>Description</b>
1		<i>Advanced Entrepreneurship</i>	2	This course develops stages of entrepreneurship advancement in the field of public health.
2	221101603P052	<i>Multivariate Analysis</i>	3	This course explains, practices, and interprets the results of multivariate tests and applies them to public health data.
3	221101602P053	<i>Population Computer</i>	2	This course applies various demographic software tools to solve public health problems.
4	221101603P054	<i>Advanced Data Management</i>	3	This course examines and analyzes the results of complex data processing to support the interpretation of public health research findings.
5	221101602P055	<i>Experimental Research Design</i>	2	This course practices statistical analysis of completely randomized designs and randomized block designs in experimental research data in public health.
6	221101602P056	<i>Sampling Design</i>	2	This course practices sampling techniques including simple random sampling, systematic sampling, stratified sampling, and cluster sampling according to public health research procedures.
7	221101602P057	<i>Geographic Information System (GIS)</i>	2	This course explains the basic concepts of GIS, including an introduction to GIS, spatial data concepts, coordinate systems, projections, datums, and cartographic principles and aesthetics in the context of public health.
8	221101602P058	<i>Rapid Survey</i>	2	This course teaches students to design rapid evaluation studies of public health

				programs.
9	221101602P059	<i>Validity and Reliability of Research Instruments</i>	2	This course teaches students to develop research instruments that meet validity and reliability testing standards.
Total Credits			<b>20</b>	

<b>SEMESTER VI</b> <b>Specialization Courses in Epidemiology</b>				
No	Course Code	Courses	Credit Hours	Description
1		<i>Advanced Entrepreneurship</i>	2	This course outlines the stages of entrepreneurship development in the field of public health.
2	221101602P060	<i>Rapid Survey of Epidemiology</i>	2	This course applies rapid epidemiological surveys to assess public health problems for monitoring and evaluation purposes.
3	221101602P061	<i>Epidemiological Scientific Review</i>	2	This course teaches techniques for preparing epidemiological research based on systematic reviews.
4	221101602P062	<i>Epidemiology of Tropical Diseases</i>	2	This course analyzes epidemiological approaches to controlling infectious tropical diseases.
5	221101603P063	<i>Outbreak Investigation Practices</i>	3	This course practices the stages of systematic outbreak investigation.
6	221101602P064	<i>Data Management and Analysis for Epidemiology</i>	2	This course manages and analyzes epidemiological data digitally.
7	221101603P065	<i>Epidemiological Surveillance Practices</i>	3	This course practices epidemiological surveillance through proposal development, field practicum implementation, and dissemination of observations.

8	221101603P109	<i>Disease Screening Application</i>	3	This course applies the concepts, principles, methods, and ethics of health screening.
Total Credits			<b>19</b>	

<b>SEMESTER VI</b> <b>Specialization Courses in Occupational Health and Safety (OHS)</b>				
No	Course Code	Courses	Credit Hours	Description
1		<i>Advanced Entrepreneurship</i>	2	This course outlines the stages of entrepreneurship development in the field of public health.
2	221101603P073	<i>Industrial Hygiene</i>	3	This course teaches the design and development of industrial hygiene programs.
3	221101602P074	<i>Workplace Accident</i>	2	This course analyzes potential hazards or accidents in the workplace.
4	221101602P075	<i>Work-related Diseases</i>	2	This course analyzes workplace environments that may cause occupational diseases.
5	221101603P076	<i>Occupational Health and Safety Practices</i>	3	This course practices workplace environmental measurements.
6	221101602P077	<i>Industrial Psychology</i>	2	This course analyzes the application of industrial psychology in solving workplace health problems.
7	221101602P078	<i>Industrial Toxicology</i>	2	This course identifies and analyzes hazard risks and designs a hierarchy of hazard control in the workplace.
8	221101602P104	<i>Occupational Health and Safety for Informal Sector Workers</i>	2	This course designs and develops problem-solving programs for OHS in the informal sector.
9	221101602P105	<i>Occupational Health and Safety Program</i>	2	This course trains students to plan occupational health and safety promotion programs.
Total Credits			<b>20</b>	

<b>SEMESTER VI</b> <b>Specialization Courses in Environmental Health</b>				
<b>No</b>	<b>Course Code</b>	<b>Courses</b>	<b>Credit Hours</b>	<b>Description</b>
1		<i>Advanced Entrepreneurship</i>	2	This course outlines the stages of entrepreneurship development in the field of public health.
2	221101602P079	<i>Environmental Pollution</i>	2	This course explains control programs for environmental pollution and the application of technological innovations as solutions to environmental health problems.
3	221101602P080	<i>Wastewater and Solid Waste Treatment</i>	2	This course explains the classification of solid waste and wastewater, as well as standards for their management.
4	221101602P081	<i>Vector-Borne and Zoonotic Diseases Control</i>	2	This course explains integrated programs for controlling vectors and zoonotic diseases.
5	221101602P082	<i>Planning and Evaluation in Environmental Health Program</i>	2	This course explains programs to improve environmental quality and control environmental pollution.
6	221101602P083	<i>Environmental Health Practices</i>	2	This course practices measuring environmental health parameters.
7	221101602P084	<i>Hygiene and Sanitation Food and Beverage</i>	2	This course teaches monitoring of food quality and investigating foodborne outbreaks.
8	221101602P085	<i>Sanitation of Public Places</i>	2	This course explains monitoring sanitation quality in public places.
9	221101602P086	<i>Environmental Toxicology</i>	2	This course explains the application of environmental toxicology in providing solutions to environmental health problems.
10	221101602P107	<i>Environmental Impact Assessment(EIA) and</i>	2	This course explains the stages of preparing EIA and

		<i>Environmental Health Risk Assessment (EHRA)</i>		EHRA documents.
Total Credits			<b>20</b>	

<b>SEMESTER VI</b> <b>Specialization Courses in Health Promotion</b>				
No	Course Code	Courses	Credit Hours	Description
1		<i>Advanced Entrepreneurship</i>	2	This course outlines the stages of entrepreneurship development in the field of public health.
2	221101602P087	<i>Individual Education for Public Health</i>	2	This course teaches counseling and interview techniques in individual education.
3	221101602P088	<i>Community-based interventions</i>	2	This course designs and evaluates community-based health interventions to address health problems.
4	221101602P089	<i>Equality and Justice in Tropical Rainforest Areas</i>	2	This course analyzes current situations regarding gender-based, fair, and equal health development in tropical rainforest regions.
5	221101602P090	<i>Public Communication and Public Speaking</i>	2	This course carries out public speaking activities and monitoring and evaluation of public communication programs.
6	221101603P091	<i>Development Media for Public Health</i>	3	This course teaches the stages of developing health promotion media.
7	221101602P092	<i>Behaviour Assessment and Public Health Indicator</i>	2	This course teaches the preparation of valid and reliable instruments for measuring behavior and health indicators to support public health research.
8	221101602P093	<i>Health Psychology</i>	2	This course analyzes psychological approaches to solving public health problems.
9	221101603P120	<i>Health Promotion</i>	3	This course implements

		<i>Application in Primary Healthcare Services</i>		priority health promotion program planning in primary healthcare facilities.
Total Credits			<b>20</b>	

<b>SEMESTER VII</b> <b>Specialization Courses in Health Administration and Policy</b>				
No	Course Code	Courses	Credit Hours	Description
1	221101603W103	<i>Community Service Program</i>	3	This course designs, implements, and evaluates public health programs and education based on tropical rainforest environments.
2	221101602W104	<i>Internship</i>	2	This course designs and implements public health programs in the institution where the internship takes place.
3	221101602P107	<i>Research Methodology for Health Administration and Policy</i>	2	This course designs and conducts research in the field of health administration and policy.
Total Credits			<b>7</b>	

<b>SEMESTER VII</b> <b>Specialization Courses in Biostatistics</b>				
No	Course Code	Courses	Credit Hours	Description
1	221101603W103	<i>Community Service Program</i>	3	This course designs, implements, and evaluates public health programs and education based on tropical rainforest environments.
2	221101602W104	<i>Internship</i>	2	This course designs and implements public health programs in the institution where the internship takes place.

3	221101602P108	<i>Research Methodology for Biostatistics</i>	2	This course designs and conducts research in the field biostatistics.
Total Credits			7	

SEMESTER VII Specialization Courses in Epidemiology				
No	Course Code	Courses	Credit Hours	Description
1	221101603W103	<i>Community Service Program</i>	3	This course designs, implements, and evaluates public health programs and education based on tropical rainforest environments.
2	221101602W104	<i>Internship</i>	2	This course designs and implements public health programs in the institution where the internship takes place.
3	221101603P110	<i>Research Methodology for Epidemiology</i>	2	This course designs and conducts research in the field epidemiology.
Total Credits			7	

SEMESTER VII Specialization Courses in Occupational Health and Safety				
No	Course Code	Courses	Credit Hours	Description
1	221101603W103	<i>Community Service Program</i>	3	This course designs, implements, and evaluates public health programs and education based on tropical rainforest environments.
2	221101602W104	<i>Internship</i>	2	This course designs and implements public health programs in the institution where the internship takes place.
3	221101602P106	<i>Research Methodology for Occupational Health</i>	2	This course designs and conducts research in the field

		<i>and Safety</i>		occupational health and safety.
Total Credits			<b>7</b>	

<b>SEMESTER VII</b> <b>Specialization Courses in Environmental Health</b>				
No	Course Code	Courses	Credit Hours	Description
1	221101603W103	<i>Community Service Program</i>	3	This course designs, implements, and evaluates public health programs and education based on tropical rainforest environments.
2	221101602W104	<i>Internship</i>	2	This course designs and implements public health programs in the institution where the internship takes place.
3	221101602P108	<i>Research Methodology for Environmental Health</i>	2	This course designs and conducts research in the field environmental health.
Total Credits			<b>7</b>	

<b>SEMESTER VII</b> <b>Specialization Courses in Environmental Health</b>				
No	Course Code	Courses	Credit Hours	Description
1	221101603W103	<i>Community Service Program</i>	3	This course designs, implements, and evaluates public health programs and education based on tropical rainforest environments.
2	221101602W104	<i>Internship</i>	2	This course designs and implements public health programs in the institution where the internship takes place.
3	221101602P110	<i>Research Methodology for Health Promotion</i>	2	This course designs and conducts research in the field health promotion.



Total Credits	<b>7</b>	
---------------	----------	--

<b>SEMESTER VIII</b>				
<b>No</b>	<b>Course Code</b>	<b>Courses</b>	<b>Credit Hours</b>	<b>Description</b>
1	221101606W112	<i>Undergraduate Final Paper</i>	6	This course involves the design of research proposals, the implementation of research, and the publication of the research.
Total Credits			<b>6</b>	