



# DOCTOR OF PHILOSOPHY PROGRAM IN PUBLIC HEALTH

■ FACULTY OF PUBLIC HEALTH

## DOCTOR OF PHILOSOPHY PROGRAM IN PUBLIC HEALTH

Through the integration and application of a broad range of knowledge and analytical skills applicable to problem-based localized research, the faculty is renowned for its networking with health service providers and public health institutions in the locality of both the lower northern region and the country. Internationally, we are partnered with leading public health organizations, such as SEARO (Southeast Asia Regional Office) of the World Health Organization and the Australasian College of Health Service Management (ACHSM).

Our program attracts national experts to serve on the teaching staff, flexible in handling research interests in any current public health issues.

The Doctoral Program in Public Health prepares mid-career professionals for senior-level positions in organizations working to improve the public's health.



## Objectives

The program targets diverse individuals working as health professionals responsible in communities, organizations, and institutions. Examples include domestic and international health directors, mid-career managers in government agencies or foundations, leaders within nonprofit and nongovernmental organizations, program officers and other mid-level or senior managers, and others working within the health field, including entrepreneurs and individuals working in nontraditional settings affecting the health of the public.

In a specific disciplinary public health field, graduates of our Ph.D. Program end up on the front lines of public health practice with the following qualifications:

- Making a difference in the health domain as change agents.
- Possessing advanced knowledge and research capacities to arrive at solutions and development in public health.
- Competent in policy-making and implementation regarding public health.
- Good at communications, culturally-oriented to factors affecting public health in diverse contexts, and adaptable in multicultural settings.
- Mastering analytical skills in knowledge integration, a necessity for interdisciplinary practice.
- Adhering to professional ethics.

## Admission

In accordance with the Graduate School Rules and Regulations. The program committee reserves the rights to require more qualifications as deemed appropriate.

## Medium of Instruction

Thai and English

## Research Focus

- Primary Health Care
- Health Promotion
- Health Services Management

## Requirement for Graduation

In accordance with the Graduate School Rules and Regulations.



# Doctor of Philosophy Program in Public Health

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### Structure of the Program

#### 1. Credit Requirements. \*

Requirements	Option 1.1	Option 2.1	Option 2.2
Coursework	-	12	24
Core Courses	-	9	21
Electives	-	3	3
Required Non-credit Courses	3	3	12
Dissertation	48	36	48
<b>Total</b>	<b>48</b>	<b>48</b>	<b>72</b>

\* Minimum credits required.

#### 2. Core Courses

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Cr.	Course No.	Cr.	Course No.	Cr.
Environmental and Occupational Health	-	-	-	-	551516	3
Behavioral Sciences and Health Education	-	-	-	-	551517	3
Epidemiology	-	-	-	-	551518	3
Population and Community Health	-	-	-	-	551523	3
Public Health Philosophy, Policies, and Administration	-	-	553612	3	553612	3
Advanced Biostatistics for Public Health Research	-	-	553613	3	553613	3
Global Health Promotion	-	-	553614	3	553614	3
<b>Total</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>9</b>	<b>7</b>	<b>21</b>

### 3. Electives

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Cr.	Course No.	Cr.	Course No.	Cr.
Health Promotion Service Management	-	-	-	-	551524	3
Advanced Research Methodology in Epidemiology	-	-	553621	3	553621	3
Evaluation of Primary Health Service	-	-	553622	3	553622	3
Qualitative Research in Public Health	-	-	553623	3	553623	3
Strategic Planning in Public Health	-	-	553624	3	553624	3
Analysis and Planning in Demography	-	-	553625	3	553625	3
Environmental, Social and Health Impact Assessment (ESHIA)	-	-	553626	3	553626	3
Planning and Evaluation of Behavioral Change Programme	-	-	553627	3	553627	3
<b>Total</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>≥3</b>	<b>8</b>	<b>≥3</b>

### 4. Required Non-credit Courses.

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Cr.	Course No.	Cr.	Course No.	Cr.
Biostatistics in Public Health Research	-	-	-	-	551514	3
Public Health Administration	-	-	-	-	551515	3
Research Methodology in Health Sciences	-	-	-	-	551591	3
Seminar 1	553692	1	553692	1	553692	1
Seminar 2	553693	1	553693	1	553693	1
Seminar 3	553694	1	553694	1	553694	1
<b>Total</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>7</b>	<b>12</b>

### 5. Dissertation Credit Requirements.

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Cr.	Course No.	Cr.	Course No.	Cr.
Dissertation 1 Option 1.1	553661	3	-	-	-	-
Dissertation 2 Option 1.1	553662	9	-	-	-	-
Dissertation 3 Option 1.1	553663	9	-	-	-	-
Dissertation 4 Option 1.1	553664	9	-	-	-	-
Dissertation 5 Option 1.1	553665	9	-	-	-	-
Dissertation 6 Option 1.1	553666	9	-	-	-	-
Dissertation 1 Option 2.1	-	-	553671	6	-	-
Dissertation 2 Option 2.1	-	-	553672	6	-	-
Dissertation 3 Option 2.1	-	-	553673	6	-	-
Dissertation 4 Option 2.1	-	-	553674	6	-	-
Dissertation 5 Option 2.1	-	-	553675	6	-	-
Dissertation 6 Option 2.1	-	-	553676	6	-	-
Dissertation 1 Option 2.2	-	-	-	-	553681	8
Dissertation 2 Option 2.2	-	-	-	-	553682	8
Dissertation 3 Option 2.2	-	-	-	-	553683	8
Dissertation 4 Option 2.2	-	-	-	-	553684	8
Dissertation 5 Option 2.2	-	-	-	-	553685	8
Dissertation 6 Option 2.2	-	-	-	-	553686	8
<b>Total</b>	<b>6</b>	<b>48</b>	<b>6</b>	<b>36</b>	<b>6</b>	<b>48</b>

## Course Descriptions

### 551514 Biostatistics for Public Health Research (Non-credit) 3(2-2-5)

Principles of statistics, coding and importation of data in statistical programs, hypothesis testing, bivariate analysis by parametric and nonparametric statistics, such as Z-test, t-test, F-test,  $\chi^2$  -test, Wilcoxon test, Mann-Whitney test, Kruskal-Wallis test, simple regression analysis, multiple regression analysis, and applied statistics in public health research; computer skills for data analysis and data analysis presentation.

### 551515 Public Health Administration (Non-credit) 3(2-2-5)

Concepts of public health and public health practices, theories and definitions of management, principles and methods of public health administration, organizational development, team management, financing management, information management, concepts and theories of health policy, policy processes including problem identification, policy formulation, adoption, evaluation, and quality assurance in public health.

### 551516 Environmental and Occupational Health 3(2-2-5)

Principles and concepts of ecology and environmental health, food sanitation and food safety, insect and animal carrier control, solid waste management system, housing sanitation and environmental pollution, environmental policy: concepts and principles in risk assessment in environmental health, environmental impact assessment: concepts and importance of occupational health and safety, hazardous working environment, prevention and control due to working environment, current issues in environmental and occupational health, and preparatory and disaster awareness.



**551517 Behavioral Sciences and Health Education****3(2-2-5)**

Factual situations and trends in public health problems, relationship between public health problems and health behavior, scope of behavioral sciences and health education, theories and models of behavioral sciences and health education, planning and programming application for health-behavioral change, and planning and evaluation of health education program.

**551518 Epidemiology****3(2-2-5)**

Significance and scope of epidemiology determinants of diseases, natural history of diseases, emerging and reemerging diseases, measurement and frequency of diseases, disease development processes in human, surveillance, investigation, epidemiological studies, and the application and epidemiological methods for public health approaches.

**551523 Population and Community Health****3(2-2-5)**

Factual situations and trends in population, population changes, impact of population changes in public health problems, principles of population and community health, significant development in population health problems, reproductive health, maternal and child health, problems and health of teenagers, working age group health, aging group health, lifestyle, health and quality of life of the population, networks and organization of health services in the community.

**551524 Health Promotion Services Management****3(2-2-5)**

Concepts and theories of health promotion, reorientation of health services to health promotion covering individual family and community, the challenges of changing health services to health promotion, organizational development as an approach to health promotion, concepts and principles of management emphasizing planning, organizing, leading, controlling, and evaluating; integration of concepts and theories from health promotion and management to practice; and information and financial management in health promotion.

**551591 Research Methodology in Health Sciences (Non-Credit) 3(2-2-5)**

Definitions, aims of research, types and research methodologies, development of research questions, variables, hypothesis, data collection and analysis, writing of research proposal and report, research implementation, and ethics in research.

**553612 Public Health Philosophy, Policies and Administration 3(2-2-5)**

Philosophies and concepts in public health, Thailand and global health policies and comparative history, service and public health system components, comparison of national and global health, Thailand's health system development, theories and definitions of management, principles and processes in public health administration, public health organizational development, policy development assessment, and quality assurance in public health.

**553613 Advanced Biostatistics for Public Health Research 3(2-2-5)**

Logistic analysis, discriminant analysis, factor analysis, path analysis, multilevel analysis, survival analysis, generalized estimating equation, applied advanced statistics in public health research, and skills in using computer programs for data analysis and presentation.

**553614 Global Health Promotion 3(2-2-5)**

Emerging health issues, policies and trends in global health promotion, equality in health promotion approaches, promoting mental health, health promotion in Thailand, integrated health promotion strategies, community capacity building and health promotion, and global capacity to engage in health promotion.

**553621 Advanced Research Methodology in Epidemiology 3(2-2-5)**

In-depth study and examination of errors, confounding variables, biases, effects of modification, sample sizes, sampling methods, power of tests, epidemiological methods, case studies, cross-sectional studies, case control studies, cohort studies, longitudinal studies, and prognosis and linkage studies.

**553622 Evaluation of Primary Health Service 3(2-2-5)**

Concepts and theories in evaluation, evaluation models, evaluation methods including planning, methods and tools in measuring health services, statistics for evaluation, application of evaluation theories in primary health care, principles of quality development and improvement, and sustainable development of quality services.

**553623 Qualitative Research in Public Health 3(2-2-5)**

Methodological frameworks in qualitative research, sampling, sampling strategies, sample sizes, how to access research participants, rigor and ethics in qualitative research, in-depth interviewing method, practical issues in interviewing, types of qualitative methods, qualitative data analysis, writing a qualitative research proposal, and writing a qualitative research report.

**553624 Strategic Planning in Public Health 3(2-2-5)**

Extensive study of theories and concepts in strategic planning, definitions and types of strategic decisions, image building, vision determination, strategic planning components, organization vision in a strategic planned setting, strategic planning in public health, and the development of a strategic plan for public health.

**553625 Analysis and Planning in Demography** 3(2-2-5)

Meanings, scope, and methodologies in analyzing demography, demographic data source, quality and quality evaluation of demographic data, techniques in the analysis of demography, and population planning and its application to public health.

**553626 Environmental, Social and Health Impact Assessment (ESHIA)** 3(2-2-5)

Overview of the principles, importance, variables, methods, and equipment of EIA, HIA, and SIA; practices of HIA and SIA and the relationship of environmental, social, and health impact.

**553627 Planning and Evaluation of Behavioral Change Programme** 3(2-2-5)

Health promotion planning in individual, family, and community health promotion planning in schools and workplaces; strategies to minimize health risks, behavior change programme, health behavior evaluation, and planning and evaluating of a health promotion project.

**553661 Dissertation I, Option 1.1** 3 Credits

Identifying an interesting research topic related to public health issues, definition of research problems and research significance, writing a research proposal, and literature review.

**553662 Dissertation II, Option 1.1** 9 Credits

Presentation of the research topic and designation of the dissertation advisor.

**553663 Dissertation III, Option 1.1** 9 Credits

Development of a research proposal, presentation of the research progress, and completing the qualifying exam.

<b>553664</b> Dissertation IV, Option 1.1	<b>9 Credits</b>
Presentation of the progress of the research and completing a defense examination of the research proposal.	
<b>553665</b> Dissertation V, Option 1.1	<b>9 Credits</b>
Conducting extensive research, presentation of the research progress, and preparing for publication of the research.	
<b>553666</b> Dissertation VI, Option 1.1	<b>9 Credits</b>
Summary of the research findings, preparation of the publication of research, competing a proposal defense examination, and submission of the completed dissertation to the Graduate School.	
<b>553671</b> Dissertation I, Option 2.1	<b>6 Credits</b>
Identifying an interesting research topic related to public health issues, defining research problems and research significance, writing a research proposal, and literature review.	
<b>553672</b> Dissertation II, Option 2.1	<b>6 Credits</b>
Presentation of the research topic and designation of dissertation advisor.	
<b>553673</b> Dissertation III, Option 2.1	<b>6 Credits</b>
Presentation of the progress of the research and completing a qualifying exam.	
<b>553674</b> Dissertation IV, Option 2.1	<b>6 Credits</b>
Developing a research proposal, presentation of research progress, and completing a defense examination of the research proposal.	
<b>553675</b> Dissertation V, Option 2.1	<b>6 Credits</b>
Conducting extensive research, presentation of the research progress, and preparing for publication of the research.	

**553676 Dissertation VI, Option 2.1****6 Credits**

Summary of the research findings, preparation for the publication of research, completing a proposal defense examination, and submission of the completed dissertation to the Graduate School.

**553681 Dissertation I, Option 2.2****8 Credits**

Identifying an interesting research topic related to public health issues, defining research problems and research significance, writing the research proposal, and literature review.

**553682 Dissertation II, Option 2.2****8 Credits**

Presentation of the research topic, designation of dissertation advisor, and completing the qualifying exam.

**553683 Dissertation III, Option 2.2****8 Credits**

Presentation of the progress of the research and completing a defense examination of the research proposal.

**553684 Dissertation IV, Option 2.2****8 Credits**

Conducting extensive research and presentation of the research progress.

**553685 Dissertation V, Option 2.2****8 Credits**

Conducting extensive research, presentation of the research progress, and preparing for publication of the research.

**553686 Dissertation VI, Option 2.2****8 Credits**

Summary of the research findings, preparing for publication of the research, completing a proposal defense examination, and submission of the completed dissertation to the Graduate School.

**553692 Seminar I (Non-credit)****1(0-3-1)**

Citations of health sciences and public health research, global and national health problem search, development of appropriate research proposal, and presentation of health problems.

**553693 Seminar II (Non-credit)****1(0-3-1)**

Citations of information, seminar techniques, and examination of health research articles.

**553694 Seminar III (Non-credit)****1(0-3-1)**

Research results presentation, manuscript presentation for publication, manuscript submission, and presentation techniques in health research.