

**Course Detail**  
**Master of Science Program in Epidemiology**

<b>Course Title:</b>	Master of Science Program in Epidemiology
<b>Master Degree:</b>	Master of Science (Epidemiology)
<b>Academic Institution:</b>	Epidemiology Unit, Faculty of Medicine, Prince of Songkla University (Designated as WHO Collaborating Centre for Research and Training on Epidemiology)
<b>Duration:</b>	2 years (June 2024 - March 2026)

**Background and Rationale:**

Epidemiology is defined as “the study of the distribution and determinants of health-related states or events (including disease), and the application of this study to the control of diseases and other health problems”. Knowledge of epidemiology can be integrated into various kinds of research, such as medical or clinical, public health, social health, education or health economics, which can be applied with global health, clinical medicine, genetic epidemiology, health sciences or zoonosis. Therefore, this epidemiology program is useful for diverse health professionals and researchers who aim to systematically develop the research that fully impacts on health.

The epidemiology program has been organized around research-based knowledge and skills incorporating learning and teaching methods that integrate both theory and practice. This experience will help the students to achieve high levels of expertise as well-trained researchers who can conduct research of international standard that has a beneficial impact on public and global health. Strong point of the program is emphasized on the field work and training in research methodology and use of open source software for analysis of research data. This program is the first in the country to develop a package designed specifically to meet the need for epidemiological data. The program also provides the training in-class and online in the use of an epidemiological statistics package in open source software. To date, training has been provided numerous countries principally in Asia and Africa. The teaching staff of the program have extensive experience in different continents and are well recognized by the international research community. The staff also have extensive experiences of teaching, supervising and taking care of students from diverse cultural and educational background including both medical, public health and social science disciplines. To these activities, the program has a significant impact on development of human resources for health research both nationally and internationally. So far, 85 M.Sc. students have graduated from the program. They were accepted from their work places and have become leaders in research and academic activities in their country.

**Objectives:**

1. To conduct morally and ethically sound research.
2. To design studies in response to the needs of stakeholders.
3. To search information using skills in information technology.
4. To integrate theoretical health concepts in order to solve health problems systematically through critical appraisal of the evidence.
5. To conduct community-based, community-oriented, community-participating field research.
6. To appropriately interpret the analytical outputs, and discuss the findings amidst the evolving state of knowledge.
7. To demonstrate mastery of principles of epidemiology and statistics in relation to health research.
8. To collect and analyze data properly with clear presentation in academic fashion.
9. To produce research by integration of multiple disciplines, and interpret and apply the results in a stakeholder-friendly manner, leading to solutions for the organization or the community, and publish the findings as a research article.

#### **Course Synopsis & Methodology:**

##### **1<sup>st</sup> Semester / 2024 academic year**

Medical Statistics and Statistical Computing I

Epidemiological Methods I

Appraisal of Articles in Journals

##### **2<sup>nd</sup> Semester / 2024 academic year**

Seminars in Research Methodology

Epidemiological Methods II

Field Work Research

Biostatistics and Statistical Computing II

##### **1<sup>st</sup> Semester / 2025 academic year**

Thesis

##### **2<sup>nd</sup> Semester / 2025 academic year**

Thesis

**Grand total**

**36 credits**

**Graduation Conditions:** To fulfill the requirements, the student must follow the requirements of each graduate program.

#### **Applicants Qualifications:**

1. Direct collaboration between our institute and the institute of the applicant.
2. Research funding from the applicant's organization or a funding agency in the applicant's country which will provide administrative support for the data collection phase during the second year of study.
3. Previous work experience related to health.
4. Healthy and active.
5. Good command of English.
6. Age not more than 40 years (preferable).
7. Having publication in a peer review journal in local or international paper.



**Document Required:**

- TIPP application form (Download at: <https://tica-thaigov.mfa.go.th/en/page/75500-tipp-application-form?menu=605b13dbb6f1b76ed31778b3>)
- Medical Report which includes results of chest x-ray, complete blood count, urinalysis and HIV test. (If candidates had submitted other health certificates without the TICA medical report form, their application will not be accepted for consideration)
- Transcript of Bachelor's degree (to show the courses that you have learnt throughout Bachelor's degree)
- Certificate of Bachelor's degree
- Curriculum vitae, including a list of publications if available.
- English test score (TOFEL 500, IETLS 5.0)
- Recommendation Letter (At least 3 people)
- First page of all published articles ( If any)
- Research description/plan
- A copy of Passport
- Statement of purpose (approximately 500-800 words)

**Contact:**

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\*\*\*The application procedure will complete when TICA has received the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible countries/territories.