

Course Detail

Master of Science in Occupational and Environmental Health (International Program)

Course Title:	Master of Science (Occupational and Environmental Health) (International Programme)
Master Degree:	Master of Science (Occupational and Environmental Health) M.Sc. (Occupational and Environmental Health)
Academic Institution:	Faculty of Public Health, Thammasat University
Duration:	18 months (minimum)

Background and Rational

This course aims to produce researchers with special skills in these areas equipped with up-to-date knowledge of relevant technological innovations. There is comprehensive coverage of theory and practice and an emphasis on the development of research skills enabling students to apply their knowledge to find practical solutions to real public health issues.

The M.Sc. provides the necessary skills, knowledge, and competencies to enable students to critically evaluate risk posed by the full range of occupational and environmental health hazards, or stressors, which have impacts on human health and well-being. Courses will be delivered by academic staff with wide practical experience as well as active research interests.

The course is conducted using a practically-based teaching and learning processes including lectures, workshops, group work, case studies, practical assignments, site visits, and student centered learning. This ensures graduates to gain experience on the challenge of current problem-based research and state of the art methods.

This program offers several specialized subjects in three fields; occupational health, ergonomics, and safety and environmental health. It will be conducted in a semester system with 36 credits in total. For the first two semesters, students focus on core compulsory courses and scientific topics related to their selected fields of study. Elective courses complement the core courses and their interested research topics.

Objective:

The M.Sc. (Occupational and Environmental Health) provides graduates with: 1) developing technical competence necessary to successful academic and professional work; 2) acquiring and integrating knowledge and skills from a variety of occupational and environmental health perspectives in order to become effective problem solvers, innovators, and decision makers; and 3) mastering the knowledge and practice in occupational and environmental health through the process of research and field practice.

STUDY PLAN**Course Content/Study Topic:***a. Pre-program workshop*

FIRST YEAR	
Plan A (Thesis Track)	
First semester	
OE60 Statistics and Research Methodology 1	3 credits
OE61 Occupational and Environmental Epidemiology 1	3 credits
OE63 Occupational and Environmental Health 1	3 credits
OE66 Occupational and Environmental Health Seminar (non-credit) 1	1 credit
OE6x Compulsory in concentration x	3 credits
Total	13 Credits
Second semester	
OE6x Compulsory in concentration x	3 credits
OE6x Compulsory in concentration x	3 credits
OE6x Electives x	3 credits
OE6x Electives x	3 credits
OE80 Thesis 0	3 credits
Total	15 credits
SECOND YEAR	
First semester	
OE80 Thesis 0	9 credits
Total	9 credits

Although the pre-program workshop is considered as a non-credit co-curricular learning experience, all enrolled students are expected to participate prior to registration in the 1st semester of the academic year.

b. Core compulsory courses

Students must complete a total of 9 credits and Occupational and Environmental Health Seminar (credit not counted) of the following Occupational and Environmental Health core courses:

OE 611: Occupational and Environmental Epidemiology	3 (3-0-9)	Credits
OE 601: Statistics and Research Methodology	3 (3-0-9)	Credits
OE 631: Occupational and Environmental Health	3 (3-0-9)	Credits

Compulsory course (credit not counted)

OE 661: Occupational and Environmental Health Seminar 1 (0-2-4) Credits

c. Compulsory in field courses

Students must complete a total of 9 credits of the following compulsory courses:

Concentration on Occupational Health

OE 621: Occupational and Environmental Toxicology 3 (3-0-9) Credits

OE 632: Occupational and Environmental Sampling and Analysis
3 (2-3-7) Credits

OE 633: Workplace Exposure Assessment and Control 3 (3-0-9) Credits

Concentration on Environmental Health

OE 621: Occupational and Environmental Toxicology 3 (3-0-9) Credits

OE 632: Occupational and Environmental Sampling and Analysis
3 (2-3-7) Credits

OE 651 Environmental Health Technology 3 (3-0-9) Credits

d. Elective courses

Plan-A: Students opting for Plan-A must select at least 6 credits of coursework from either minor concentration courses or the following set of free electives courses.

OE 602 : Advanced Statistics for Occupational and Environmental Health
Research 3 (3-0-9)
Credits

OE 612 Molecular Epidemiology 3 (3-0-9) Credits

OE 634 Risk Assessment and Management 3 (3-0-9)
Credits

OE 635 Air Pollution and Control 3 (3-0-9) Credits

OE 636 Indoor Air Quality and Control 3 (3-0-9) Credits

OE 641 Safety Engineering 3 (3-0-9) Credits

OE 642 Safety, Health and Environmental Management 3 (3-0-9) Credits

OE 643 Human Factors and Ergonomics 3 (3-0-9) Credits

OE 644 Task Analysis and Design 3 (3-0-9) Credits

OE 652 Environmental and Health Impact Assessment 3 (3-0-9) Credits

OE 653 Waste Management 3 (3-0-9) Credits

OE 654 Water and Waste Water management 3 (3-0-9) Credits

OE 655 Disaster Management 3 (3-0-9) Credits

Thesis (Plan-A)

OE 800: Thesis 12

Credits

Application and Qualification :

- Hold a B.Sc. or equivalent fields and must have taken at least 2 of the following courses: Chemistry and Analytical Chemistry, Biology, Industrial Hygiene, Occupational Health and Safety, Environmental Health, Toxicology and Statistics.
- Have a minimum grade point average of 2.75

- Have a proven minimum of two years professional experience in Occupational Health and Safety or Environmental Health.
- Minimum TOEFL score of 500 (paper-based) or 173 (computer-based) or IELTS not less than 6.0 or TU-GET not less than 500.
- For all non-native speakers, proven English language proficiency is a precondition for program enrolment.

Document Required:

- Completed application form
- Copy of degree certificates
- Copy of degree transcripts
- Copy of TUGET or TOEFL or IELTS test score sheet
- Copy of valid passport
- Letter of reference
- Medical certificate
- Concept paper

Contact:

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Coordinators

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For more information:

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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.