



CYPRUS UNIVERSITY OF TECHNOLOGY

POST-GRADUATE DEGREE PROGRAMS
Academic Year 2016-2017

- MSc in ENVIRONMENTAL HEALTH
- MSc in EPIDEMIOLOGY AND BIostatISTICS
- PhD in ENVIRONMENTAL AND PUBLIC HEALTH



CYPRUS INTERNATIONAL INSTITUTE
FOR ENVIRONMENTAL AND PUBLIC HEALTH



THE CYPRUS INTERNATIONAL INSTITUTE

The Cyprus International Institute for Environmental and Public Health (“CII” or “the Institute”) is an international research, education, and technology initiative for the environment and public health. It was established by the Government of Cyprus and Harvard University in 2004 to address environmental and public health issues in Cyprus and throughout a broad region, including the eastern Mediterranean, northern Africa, and the Middle East.

CII provides opportunities for research, education, and training in public health to students, scholars, and professionals. The primary focus of the Institute’s research is on improving understanding of the relationship between exposure to environmental contaminants and human disease. A secondary emphasis is on improving the ways that such information is used in risk and decision analysis to inform public policy. This multidisciplinary research program attracts funding and recognition from Cyprus, the European Union, the United States, and other countries. The Institute is also active in continuing professional education and community outreach. Since 2005, it has offered a series of public lectures, continuing professional education workshops, symposiums, and other events in Cyprus and the region.

The Institute operates under the aegis of the Cyprus University of Technology School of Health Sciences.

THE CYPRUS UNIVERSITY OF TECHNOLOGY

The Cyprus University of Technology (CUT) was created by law in December 2003 and accepted its first students in September 2007. It is a public, independent university. Consequently, its values, academic character, organizational and administrative structure, procedures for appointment of faculty and staff, and relationship with the state are not dissimilar from those in place at the University of Cyprus. The Cyprus University of Technology aspires to develop into a modern, pioneering university able to offer education and high-level research in leading branches of science and technology that significantly affect the economic, technical, and scientific sectors. With its orientation towards applied research, CUT seeks to establish for itself a role to support the state and society in their efforts to confront problems encompassing all areas of science and technology.

OVERVIEW OF PROGRAMS

CII offers two master’s degree programs – the Master of Science in Environmental Health and the Master of Science in Epidemiology and Biostatistics. The two programs share a similar structure and a core curriculum, and both are taught entirely in English. Both programs begin each year in September and finish in December of the following year. Both programs rely upon integrated, interdisciplinary curriculum taught by distinguished faculty from Cyprus University of Technology, and other leading schools of public health/ environmental science.

CII also offers a PhD program in Environmental and Public Health. The PhD program is limited in size and is highly selective.

Calendar for Academic Year (2016–2017)

- Fall Semester 2016 – 05 September to 16 December
- Spring Semester 2017 – 09 January to 28 April
- Summer Session 2017 – 02 May to 23 June
- Fall Semester 2017 – 04 September to 15 December

Students may pursue the MS in Environmental Health or in Epidemiology and Biostatistics as their terminal degree and elect a career in either academia or industry, or they may use this program as preparation for further studies towards a doctoral degree. After earning the MS degree, about one third of our graduates go on to doctoral research programs or seek other advanced degrees at the best universities in the world – such as Harvard, Cambridge, Stanford, and King’s College London. Other graduates return to their countries to serve in government ministries and agencies, or as academics, consultants, or health specialists in industry.

In both MS programs, the class size is small (at most twenty to twenty-five students). The small class size facilitates individualized teaching and mentoring, and the programs are highly selective. Students come from Cyprus and other parts of the world – for example, Lebanon, Egypt, Greece, Israel, Nigeria, Germany, Turkey, the United States, and Bangladesh. The student body represents many professions and academic backgrounds, including medicine, chemistry, engineering, mathematics, public health, and economics.



THE CII MASTER OF SCIENCE PROGRAMS

MASTER OF SCIENCE IN ENVIRONMENTAL HEALTH

Environmental Health is a fascinating, interdisciplinary field that explores the effects of human exposure to contaminants in the community, home, and workplace and uses this knowledge to improve public health.

The MS program is designed to equip graduates of the program with the skills and knowledge necessary for professional and research careers in environmental health. Environmental health specialists must understand sources of pollution; the physical and chemical processes that govern their fate and transport; the biological processes dictating their intake, uptake, metabolism, elimination, and toxicity; and approaches for sampling, analysis, measurement, and modeling of ambient concentrations, human exposures, and biologically relevant doses. Environmental scientists must also be familiar with the principles of biostatistics, epidemiology, and risk assessment in order to quantify risks and to characterize the state of knowledge and uncertainty underlying these estimates. Finally, they must understand the central concepts of decision analysis and administrative law in order to value health impacts, to assess the consequences of various strategies for reducing human exposures, and to design effective policies and regulations.

The program involves 42.5 credits (68 ECTS) of coursework in the biological sciences; in exposure assessment and environmental science; in the quantitative sciences; and in policy, law, and regulation. The MS experience culminates in a 20-credit (32 ECTS) practicum – in which each student integrates and applies knowledge from these courses to analyze a problem in environmental decision making or regulation. The practicum not only provides experience in quantitative analysis but also gives our graduates experience in writing scientific manuscripts and in preparing and presenting scientific talks.

The curricula of the MSc in Environmental Health is presented below, organized by discipline:

Quantitative Sciences

- CII 500 BIostatistics (5 credits/ 8 ECTS)
- CII 504 EPIDEMIOLOGY (3.75 credits/ 6 ECTS)
- CII 507 RISK ASSESSMENT (2.5 credits/ 4 ECTS)
- CII 512 ENVIRONMENTAL EPIDEMIOLOGY (2.5 credits/ 4 ECTS)
- CII 602 ADVANCED EPIDEMIOLOGICAL METHODS I (2.5 credits/ 4 ECTS)
- CII 606 REGRESSION ANALYSIS (2.5 credits/ 4 ECTS)
- CII 608 INTRODUCTION TO SAS FOR PUBLIC HEALTH (2.5 credits/ 4 ECTS)

Biological Sciences

- CII 501 BIOLOGICAL BASIS for PUBLIC HEALTH (5.0 credits/ 8 ECTS)
- CII 511 OCCUPATIONAL HEALTH (2.5 credits/ 4 ECTS)

Exposure Assessment

- CII 506 WATER POLLUTION (3.75 credits/ 6 ECTS)
- CII 508 AIR POLLUTION (3.75 credits/ 6 ECTS)
- CII 510 EXPOSURE ASSESSMENT (2.5 credits/ 4 ECTS)

Applications

- CII 514 INTRODUCTION to ENVIRONMENT & PUBLIC HEALTH (1.25/ 2 ECTS)
- CII 503 EUR. & INTERNATIONAL ENV. LAW & POLICY (2.5 credits/4 ECTS)
- CII 580 PRACTICUM in EH (20.0 credits/ 32 ECTS)

Applicants to the program should hold a bachelor's degree or its international equivalent, including preparation in biology, chemistry and calculus. Successful applicants have come from a variety of fields, including medicine/biology, engineering/physical sciences, public health/environmental sciences, and many others.



MASTER OF SCIENCE IN EPIDEMIOLOGY AND BIostatISTICS

The disciplines of epidemiology and biostatistics involve collecting, classifying, summarizing, organizing, analyzing, and interpreting numerical information relevant to biological, medical, and public health problems. Epidemiologists/biostatisticians play a central role in biomedical research; they are involved in all stages of a study – from design, to data collection, data analysis, inference, and interpretation of the results, testing hypotheses, and developing statistical models as needed in the process. Biostatisticians and epidemiologists model relationships between individual and environmental factors and health outcomes; identify risk factors for diseases; design, monitor, analyze, interpret, and report results of biomedical studies; and develop statistical methodologies to address questions arising from medical and public health data.

The program offers a regional focus. To provide the training necessary to master the fundamental skills of epidemiology and biostatistics, the master's program encompasses 42.5 credits (68 ECTS) of coursework in the key competencies of these fields and both theoretical and applied epidemiological and statistical techniques. Courses include analytic study design in epidemiologic methods; basics of statistical inference; and epidemiology of chronic and infectious disease. The program requires a year-long practicum (20 credits or 32 ECTS), in which the tools of epidemiology and biostatistics are applied to a public health problem.

The curriculum of the MSc in Epidemiology and Biostatistics is presented below, organized by discipline:

Methods

- CII 500 BIostatISTICS (5 credits/ 8 ECTS)
- CII 504 EPIDEMIOLOGY (3.75 credits/ 6 ECTS)
- CII 602 ADVANCED EPIDEMIOLOGIC METHODS: PART I (2.5 credits/ 4 ECTS)
- CII 603 ADVANCED EPIDEMIOLOGIC METHODS: PART II (2.5 credits/ 4 ECTS)
- CII 609 ADVANCED TOPICS in BIostatISTICS (2.5 credits/ 4 ECTS)
- CII 606 REGRESSION ANALYSIS (2.5 credits/ 4 ECTS)
- CII 607 BASICS OF STATISTICAL INFERENCE (2.5 credits/ 4 ECTS)
- CII 608 INTRODUCTION TO SAS FOR PUBLIC HEALTH (2.5 credits/ 4 ECTS)



Applications

- CII 514 INTRODUCTION TO ENVIRONMENT and PUBLIC HEALTH (1.25 credits/ 2 ECTS)
- CII 501 BIOLOGICAL BASIS for PUBLIC HEALTH (5.0 credits/ 8 ECTS)
- CII 507 RISK ASSESSMENT (2.5 credits/ 4 ECTS)
- CII 512 ENVIRONMENTAL EPIDEMIOLOGY (2.5 credits/ 4 ECTS)
- CII 600 EPIDEMIOLOGY OF CHRONIC DISEASE (2.5 credits/ 4 ECTS)
- CII 601 EPIDEMIOLOGY OF INFECTIOUS DISEASE (2.5 credits/ 4 ECTS)

Study Design

- CII 605 DESIGN OF EPIDEMIOLOGIC STUDIES (2.5 credits/ 4 ECTS)

Practicum

- CII 680 PRACTICUM IN EPIDEMIOLOGY & BIostatISTICS (20 credits/ 32 ECTS)

Applicants should hold a bachelor's degree or its international equivalent and have a strong background in the health sciences, biomedical sciences, social sciences, or mathematics.

PhD IN ENVIRONMENTAL AND PUBLIC HEALTH

CII also offers the PhD in Environmental and Public Health. The PhD program is limited in size and is quite competitive. Information about the PhD in Environmental Health is available at the following web site: <http://www.cut.ac.cy/cii>

FINANCIAL AND APPLICATION INFORMATION

Tuition

For academic year 2016–17, tuition for the master's programs is €4,800 for citizens of the European Union and €8,000 for students who are not European citizens.

Financial Aid

Scholarships are granted to a limited number of the most highly qualified candidates. The exact number of scholarships available varies somewhat from year to year. The sources of these funds are many and include direct tuition grants made by the Cyprus University of

Technology, charitable foundations, and various external donors.

Applying to Cyprus International Institute

The application deadline is April 8, 2016. Complete applications which are received by the deadline will be given first priority for scholarships. To apply to CII's MSc or PhD program you need to complete the online application form available at: www.cut.ac.cy/cii

The online application form is self-explanatory and asks for – (i) information about your education; (ii) information about your work experience; (iii) a statement of interest; (iv) the names, positions and contact information of three individuals who can provide letters of reference; and (v) evidence of English proficiency (IELTS score of 6.5 or more; TOEFL of 82 or better). Applicants to our PhD program are also asked for scores from the Graduate Records Examination (GRE). Finally, the online application asks for your citizenship and national ID (Cypriots) or passport number (all others).

The CII Admissions Committee will begin to review your application based on the information you provide in your online application. However, your application will not be considered complete, and no final admissions decision will be made, until all required material have been provided to the CUT Postgraduate Studies Office.

CONTACT INFORMATION

For more information about the MS and PhD programs, application and enrollment, and related issues, please consult this website:

<http://www.cut.ac.cy/cii>

For specific inquiries about the MS or PhD programs, please contact Dr. Costas Christophi (costas.christophi@cut.ac.cy), tel.: 25002393, CII Academic Coordinator.

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