



## University of Nicosia, Cyprus

<b>Course Code</b> BIOL-441	<b>Course Title</b> Special Topics II: Communicable Diseases	<b>ECTS Credits</b> 4
<b>Department</b> Life and Health Sciences	<b>Semester</b> Spring/Fall	<b>Prerequisites</b> BIOL-231 Biostatistics; BIOL- 251 Introduction to Microbiology and Virology
<b>Type of Course</b> Health Sciences Elective	<b>Field</b> Biology, Epidemiology	<b>Language of Instruction</b> English
<b>Level of Course</b> 1 <sup>st</sup> Cycle	<b>Year of Study</b> 3 <sup>rd</sup> or 4 <sup>th</sup>	<b>Lecturer</b> Jackie England
<b>Mode of Delivery</b> Face-to-face	<b>Work Placement</b> N/A	<b>Co-requisites</b> None

### Objectives of the Course:

The course aims to provide a review of topics on the epidemiology of major infectious diseases. The main objectives of the course are to:

- Introduce the fundamental processes and procedures used to investigate and track infectious and communicable diseases
- Discuss the identification characteristics and modes of transmission of some of the major communicable diseases
- Discuss the means for prevention and control of major communicable diseases.
- Discuss the significance of communicable disease monitoring, assessment and prevention.

### Learning Outcomes:

After completion of the course students are expected to be able to:

1. Contrast and compare the procedure/methods of investigation, surveillance and monitoring steps used in the epidemiology of communicable diseases locally and in developed and developing countries.
2. Differentiate the characteristics of major communicable diseases.
3. Discuss and compare the mode of transmission of communicable diseases and control methods.
4. Discuss standard infectious disease models used to understand infectious diseases processes.
5. List data sources for disease surveillance, monitoring and control.
6. Evaluate the dependence of public health policy on communicable disease control.

**Course Contents:**

<ol style="list-style-type: none"> <li>1. Definitions in communicable disease control; microbiological testing</li> <li>2. Outbreak investigation steps and surveillance for the outbreak of infectious diseases</li> <li>3. Epidemiologic Triangle /Modes of transmission</li> <li>4. Communicable diseases of the respiratory system</li> <li>5. Enteric diseases</li> <li>6. AIDS and Hepatitis</li> <li>7. Malaria and tick-born infections</li> <li>8. Vaccine preventable diseases and immunization strategies</li> <li>9. Emerging diseases and disease with consequences for effective control</li> <li>10. Organization of infection control</li> <li>11. International aspects of communicable disease control</li> <li>12. Communicable disease control framework</li> </ol>
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**Learning Activities and Teaching Methods:**

Lectures/case studies discussions
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**Assessment Methods:**

Group Assignments, Quizzes, Final Exam
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**Required Textbooks/Reading:**

Authors	Title	Publisher	Year	ISBN
1. Nelson KE, Willaiams CM, Graham NMH	Infectious Disease Epidemiology: Theory and Practice	Aspen Publishers Inc.	2000	ISBN-10: 083421766X
2. Michael H. Merson, Robert E. Black, Anne J. Mills	International public health: diseases, programs, systems, and policies	Jones and Bartlett	2006 2 <sup>nd</sup> ed.	ISBN: 0763729671

**Recommended Textbooks/Reading:**

Authors	Title	Publisher	Year	ISBN
Jeremy Hawker, Norman Begg, Iain Blair, Ralf Reintjes	Communicable Disease Control	Wiley-Blackwell	2005, 2 <sup>nd</sup> ed.	ISBN: 9781405124249