Global Learning Semesters
Course Syllabus
Course: Animal Health and Disease
Department: Biology
Host Institution: University of Nicosia, Nicosia, Cyprus

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Recommended Credit Hours</th>
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<td>BIOL-315</td>
<td>Animal Health and Disease</td>
<td>3</td>
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<tr>
<th>Subject</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
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<tr>
<td>Animal Science</td>
<td>42-45</td>
<td>Junior standing, two biology courses</td>
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<tr>
<th>Department</th>
<th>Level of Course</th>
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<tr>
<td>Biology</td>
<td>Upper-Division</td>
<td>English</td>
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Course Description
This course is designed for the pre-veterinary, animal science or zoology student to gain working knowledge of the health issues confronting animals in Cyprus and the Mediterranean region. The course is introductory but intense with field studies intentionally built into the schedule to accommodate individual interests of the students taking the course. Classroom sessions on biosecurity systems, animal health, and animal welfare lay the foundation of knowledge needed to explore animal disease issues. About half of the students' time will be spent at field studies involving cattle, sheep goat poultry and swine, as well as companion animals.

Prerequisites (if applicable)
Junior standing and two college-level biology courses.

Instructor Information
Klitos ANDREOU  DVM MSc
Graduate of the Veterinary school  Aristotelian University Greece
Post Graduate studies at the University of Surrey  UK
Practical experience in production and control of biological products, Budapest Hungary and Brescia Italy
Head of Office on Animal health and animal welfare MANRE Cyprus
Member of the team for the implementation of surveillance, eradication and monitoring programs for animal diseases.
Member of the Committee for the control of vet medicinal products  MANRE Cyprus
Member of the team for the organization of educational seminars a) for the staff of Veterinary Services MANRE Cyprus.b) for the members of the pancyprian cattlemen association c) for the staff of animal feed producers.
Learning Outcomes

The aim of the course is to provide students with a general knowledge on health protection and safeguard of the wellbeing of animals in the Mediterranean region. Additionally, veterinary care such as preventive medicine, reproduction management, surveillance, eradication and monitoring programs on animal diseases and treatment of animal waste will be observed. Field studies will provide students with hands-on experience and problem-solving skills that will assist them while developing careers related to animal health.

Course Outline

Topic areas to be covered are selected from the following depending on the needs and characteristics of the class:
1. General knowledge of pharmacology and therapeutics;
2. Good Hygiene Practice: Cleaning, Disinfection, Sanitation, Animal Health Management Effect of environment on animal function and performance; Animal housing requirements, and animal welfare aspects.
4. Animal disease management (biosecurity measures, management of pregnant and lactating animals,)
5. Classification of animal diseases – Study of major diseases
6. Parasitic Diseases
7. Diseases and disorders of lactating cow (mastitis, Udder edema, dystokia, milk fever, ketosis), and calves (pneumonia, diarrhea)
8. Poultry Diseases
9. Swine diseases
10. Reproduction (reproductive anatomy and physiology, mating systems)
11. Waste, carcasses disposal

Evaluation and Grading

Grading
Midterm exam: 20%
Final exam: 40%
In-class participation: 20%
Field Study participation: 20%

Readings and Resources

Required Texts
Handouts and Articles provided

Optional Reading

- Animal Sciences: The Biology, Care and Production of Domestic Animals (4th edition), J.R. Campbell, M. D.
• Council directive 91/630/EEC of 19 Nov. 1991 laying down minimum standards for the protection of pigs

Other Academic Policies

Attendance is compulsory.

If unable to attend a class, students must inform the course lecturer in advance. A maximum of 20% excused absences is tolerated; however beyond this percentage, students will be withdrawn from the course. Moreover, any work missed due to absence must be completed on return to class.