



# *The Hebrew University of Jerusalem*

## *Syllabus*

### *ANIMAL HEALTH - 73806*

*Last update 27-04-2020*

*HU Credits: 3*

*Degree/Cycle: 2nd degree (Master)*

*Responsible Department: Animal Sciences - International Program*

*Academic year: 0*

*Semester: 2nd Semester*

*Teaching Languages: English*

*Campus: Rehovot*

*Course/Module Coordinator: dina Zilberg*

*Coordinator Email: [dzilberg@bgu.ac.il](mailto:dzilberg@bgu.ac.il)*

*Coordinator Office Hours: flexible*

*Teaching Staff:*

---

Dr.

Course/Module description:

*In the course health maintenance and major diseases affecting cattle, chicken and fish in commercial production are presented*

Course/Module aims:

*The aim of the course is to provide knowledge in the field of animal health management and knowledge on major diseases affecting cattle, chicken and fish. The knowledge aids in the understanding of host-pathogen interactions. The course provides background for diagnostics of the different diseases as well as understanding research on diseases in these farmed animals*

Learning outcomes - On successful completion of this module, students should be able to:

- Identifying the symptoms of diseases in the farmed animals*
- Understanding the interaction between the host and pathogen*
- Knowledge in the prevention and treatment of diseases in the farmed animals*
- Familiarizing with bacterial viral and parasitic diseases of the farmed animals*
- Familiarizing with non infectious diseases and the conditions to their development*

Attendance requirements(%):

*no*

*Teaching arrangement and method of instruction: lecture*

Course/Module Content:

*DISEASES OF FISH:  
Principals of fish health maintenance  
Bacterial diseases of fish  
Viral diseases of fish  
Protozoan parasites of fish  
Fungal diseases of fish; monogenean parasites of fish;  
Non-infectious diseases in fish*

*DISEASES OF POULTRY*

*World Poultry industry, Poultry diseases-introduction, bacterial poultry diseases  
Mycoplasma in the poultry industry, viral diseases, Newcastle disease, Turkey  
respiratory diseases.*

---

*Viral diseases of poultry, Avian influenza.  
Protozoal diseases, Fungal diseases ,Non-infectious diseases of poultry  
Disease control in the poultry industry, biosecurity, vaccinations.*

#### *DISEASES of DAIRY CATTLE IN ISRAEL*

*introduction on the structure of the dairy farming in Israel*

- *Neonatology*
- *Diseases of calves – diarrhea and pneumonia management and prevention.*
- *PRODUCTION DISEASES*
- *Management- Herd Health Program*
- *Milk fever in dairy cows*
- *Ketosis as a metabolic disease example*
- *INFECTIOUS DISEASES*
- *Foot and Mouth Disease*
- *Paratbc*
- *Rabies*
- *LUMPY SKIN DISEASE*
- *MCF*
- *BLV*
- *antrax*
- *ARBO- Bovine Ephemerial fever, Blue Tong. EHDV, Akabane,*
- *Abortion causes: Neospora, BVD, IBR, leptospira, brucella*
- *INTOXICATIONS .*
- *Botulism*
- *Water intoxication.*

#### *Required Reading:*

*no*

#### *Additional Reading Material:*

*Fish Diseases Diagnosis and Treatment, E.D. Noga*

*Diseases of poultry, 14th edition, David E. Swayne*

#### *Grading Scheme:*

#### *Additional information:*