



The Hebrew University of Jerusalem

Syllabus

NATURAL BIOLOGICAL COLLECTIONS AND THE HUMAN CONNECTION - 71154

Last update 08-10-2018

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: Animal & Veterinary Science

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Rehovot

Course/Module Coordinator: Prof. Gila Kahila Bar-Gal

Coordinator Email: gila.kahila@mail.huji.ac.il

Coordinator Office Hours:

Teaching Staff:

Prof Gila Kahila
Dr. Efrat Gavish-Regev
Dr. Dror Hawlena
Prof
Prof Rivka Rabinovich

Course/Module description:

Since the dawn of history humans interacted with their surrounding including with animals. Human development, especially urbanization, has led to environmental changes, destruction of ecosystems and habitats leading to reduction of biodiversity. The biological and palaeontological collections at the Hebrew University contain a unique diverse collection of flora and fauna of the Middle East and its adjacent seas, assembled over a period lasting more than one hundred years. The Biblical Zoo in Jerusalem is a living collection that represents biodiversity in Israel and around the world. Both collections are evidence of the ongoing relationships between human society and wildlife. The knowledge obtained from research in both collections has a strong impact in understanding the impact of anthropogenic effect on biodiversity over time and shed light on conservation of wildlife in Israel. Hence, in addition to animal display, the Biblical Zoo in Jerusalem is also used as a breeding facility and safe habitat for wild species, especially endangered species that are under the threat of extinction.

Course/Module aims:

The goal of this course is to understand the importance of biological collections in the study of the anthropogenic forces impact on biodiversity and its use in conservation acts.

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

Understanding the importance of nature collections for nature conservation

Attendance requirements(%):

Teaching arrangement and method of instruction:

Course/Module Content:

Introduction and history of animal collections and zoos
Modern zoos - types of zoos and animal collections in the world (safari, bearers, large, small, etc.)
Nature collections - types of collections and their various uses (research, education, and information)
Nature conservation in zoos - ex situ
Nature conservation in zoos - in situ
Case Study - Elephants in Zoos
Public aquariums
Research in zoos - different types of research
Zoos as a profession - who works in zoos
Research in natural collections and their contribution to various fields of research such as taxonomy, ecology, evolution, ecology and nature conservation.
Discuss the advantages and disadvantages of nature collections and zoos

Required Reading:

Baratay, Eric, and Elisabeth Hardouin-Fugier. 2003. *Zoo: A History of Zoological Gardens in the West*. illustrated ed. London: Reaktion Books. Print.

Beardsworth, Alan, and Alan E. Bryman. 2014. The wild animal in late modernity: the case of the Disneyization of zoos. *Tourist Studies* 1(2001): 83-104.

Bechtel, Stefan 2012. *Mr. Hornaday's War: How a Peculiar Victorian Zookeeper Waged a Lonely Crusade for Wildlife that Changed the World?* Beacon Press.

Braverman, Irus. *Zooland: The Institution of Captivity*. Stanford: Stanford University Press, Print.

Bryan S. McLean, Kayce c. BeLL, Jonathan L. Dunnum, Bethany Brahamson, Jocelyn P. Colella, Eleanor R. Deardorff, Jessica a. Weber, Amanda K. Jones, Fernando Salazar-Miralles, and Joseph. A. Cook 2016. Natural history collections-based research: progress, promise, and best practices. *Journal of Mammalogy* 97(1): 287-297.

Croke, Vicki. 1997. *The Modern Ark: The Story of Zoos: Past, Present, and Future*. New York: Scribner, Print.

Coe. Jon 1985. Design and Perception: Making the Zoo Experience Real. *Zoo biology* 4:197-208.

Frost, Warwick 2010. *Zoos and Tourism: Conservation, Education, Entertainment?* Channel View Publications.

Hanson, Elizabeth. 2002. *Animal Attractions: Nature on Display in American Zoos*. illustrated ed. N.p: Princeton University Press, Print.

Hancocks, David. 2001. *A Different Nature: The Paradoxical World of Zoos and Their Uncertain Future*. illustrated ed. London: University of California Press, Print.

Hoage, Robert J and Deiss William A.N. 1996. *New Worlds, New Animals: From Menagerie to Zoological Park in the Nineteenth Century*. Baltimore: Johns Hopkins University Press,

Hoage, Robert J., Anne Roskell, and Jane Mansour. 1996. *Menageries and Zoos to 1900. New Worlds, New Animals: From Menagerie to Zoological Park in the Nineteenth Century*.

Robert J. Hoage and William A. Deiss. Baltimore: Johns Hopkins University Press, 8-18. Print.

Kawata, Ken. 2011. Romancing the Celluloid Nature: A Review of American Zoo Exhibits, Part I." *Der Zool. Garten* 80.5: 239-53.

Kisling Jr., Vernon N., 2000. *Zoo and Aquarium History: Ancient animal collections to Zoological Gardens.* illustrated ed. Gainesville: CRC press, Print.

Mehos, Dana C. 2006 *Science and Culture for members only: The Amsterdam Zoo Artis in the nineteenth century.* Amsterdam University Press: Amsterdam.

Mullan, Bob, and Garry Marvin. 1999. *Zoo Culture.* illustrated ed. N.p.: University of Illinois Press, Print

Rothfels, Nigel. 2002. *Savages and Beasts: The Birth of the Modern Zoo.* illustrated ed. Baltimore: JHU Press, Print.

Smith, Diane Marie, 2012. *Animals and Artifacts: Specimen exchanges and displays in Yellowstone National Park, The National Museum and the National Zoo 1846 to 1916,* Doctorat thesis, Montana State University.

Stearn W. T. 1959. The Background of Linnaeus's Contributions to the Nomenclature and Methods of Systematic Biology. *Systematic Zoology*, 8(1): 4-22

Tribe, Andrew, 2004. "Zoo tourism" *Wildlife tourism: impacts, management and planning* ed. Karen Higginbottom, Common Ground Publishing.

Additional Reading Material:

Course/Module evaluation:

End of year written/oral examination 0 %

Presentation 100 %

Participation in Tutorials 0 %

Project work 0 %

Assignments 0 %

Reports 0 %

Research project 0 %

Quizzes 0 %

Other 0 %

Additional information: