Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

SLUkurs

Syllabus

PVG0047 One Health: concept, cases and methodology, 3.0 credits

Syllabus approved

2022-03-24

Subjects

Biomedical science

Education cycle

Third cycle

Grading scale

Pass / Failed
The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

Admitted to a postgraduate program in animal science, biology, veterinary medicine, food science, nutrition, nursing, or other one health related subjects, or to a residency program in veterinary science.

Objective, including learning outcomes

After completing the course the student shall be able to:
- Understand the One Health concept and its transdisciplinary perspectives, and

discuss One Health issues
• Describe One Health cases within various areas
• Identify important methods used to analyze one health impacts on animal, human and ecosystem health
• Explain the principles for prevention and control of infectious diseases, food safety threats, antimicrobial resistance and other One Health hazards
• Understand the advantages and challenges of applying One Health approaches
• Identify challenges that need One Health approaches to be solved or mitigated
• Be a valuable collaborator in One Health projects by being aware of the core competences that different participants bring into One Health collaborations

Content

We will give a theoretical overview of what the One Health concept is, and why a one health approach is necessary to provide efficient solutions to the global challenges of our time. We will describe the benefits (and drawbacks) of transdisciplinary research and how transdisciplinarity is used in this context. Theoretical lectures will be mixed with presentations of successful one health
cases. Methods commonly used within the one health concept will be presented, e.g. including artificial intelligence, epidemiology, bioinformatics, and qualitative research methods.

Participants will present their own research project to the group and after the first course week they will give a second presentation describing how the project could be developed using one health concept and methodology. The second week, students will be divided into groups and given the task to come up with a one health research project, and a skeleton for a research application. The second
week will also include lectures on how to write a transdisciplinary research application, with emphasis on impact and communication.

Requirements for examination

To pass the course, the participants must have attended at least 80% of the scheduled activities, and completed and passed all assignments in the course.

Additional information

International and national lecturers, as well as lecturers from SLU, will be
invited as lecturers. The course will be held digitally to facilitate participation for SLU's PhD students at all campuses.

Responsible department

Department of Biomedical Sciences and Veterinary Public Health