



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

Syllabus

Finalized by: 713, 2022-03-24

Valid from: 2022V

Level within study regulation:

Third cycle

Subject:

- Biomedical science

Grading scale:

Pass / Failed

Course language:

Swedish

Entry requirements:

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.

Objectives:

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, including 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.

Modes of assessment:

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. - If a student has failed an examination, the examiner has the right to issue supplementary assignments. This applies if it is possible and there are grounds to do so.

- The examiner can provide an adapted assessment to students entitled to study support for students with disabilities following a decision by the university. Examiners may

also issue an adapted examination or provide an alternative way for the students to take the exam.

- If this syllabus is withdrawn, SLU may introduce transitional provisions for examining students admitted based on this syllabus and who have not yet passed the course.
- For the assessment of an independent project (degree project), the examiner may also allow a student to add supplemental information after the deadline for submission. Read more in the Education Planning and Administration Handbook.

Organisation:

Department of Biomedicin Sciences and Veterinary Public health

Supplementary information

Other information:

- The right to participate in teaching and/or supervision only applies for the course instance the student was admitted to and registered on.
- If there are special reasons, students are entitled to participate in components with compulsory attendance when the course is given again. Read more in the Education Planning and Administration Handbook.