

International Program – Global Health Leadership (2-10-15)

Course Name: Vaccines

Course Number: xxx.xx

Credit hours: 2 hours (26-28 hours of frontal lectures in one semester)

Lecturer's name: Manfred Green

Contact details: manfred.s.green@gmail.com

Course description:

This course will provide students with an overview of vaccines for viral and bacterial diseases. An introduction to vaccine development will be given including the history of vaccines. The course will include discussions of the vaccine-preventable diseases (such as measles, mumps, rubella, polio, diphtheria, tetanus, pertussis, HPV and hepatitis A and B). The approach to the role of vaccines in the eradication of diseases such as smallpox, polio, and measles will be discussed. Controversies on the safety and vaccines will be discussed including the area of risk communication.

Course objectives (for students):

- To understand the process of the function and development of vaccines
- To gain a knowledge of the safety and efficacy of selected vaccines
- To know the approach to the use of vaccines for the eradication of diseases
- To be able to assess the controversies on vaccines include anti-vaccine groups
- To be exposed to several approach to risk communication surrounding vaccines

Dates: Second semester

Times:

Prerequisites: None

Course requirements:

1. **Attendance at lectures and seminars**
2. **Assignments and exercises**
3. **Final exam**

Calculation of final grade:

- 1. Assignments and exercises: 50%**
- 2. Final exam: 50%**

Research Methods
First Semester 2015

| No. | Day | Date | Time | Subject | Lecturer |
|------------|------------|----------------|-------------|--|-----------------|
| 1 | Tues | Mar 7, 2017 | 10.15-11.45 | Course description – history of vaccines | Prof. Green |
| 2 | Tues | Mar 14, 2017 | 10.15-11.45 | Measles vaccines | Prof. Green |
| 3 | Tues | Mar 21, 2017 | 10.15-11.45 | Polio vaccines | Prof. Green |
| 4 | Tues | Mar 28, 2017 | 10.15-11.45 | Hepatitis A vaccines | Prof. Green |
| 5 | Tues | April 4, 2017 | 10.15-11.45 | Hepatitis B vaccines | Prof. Green |
| 6 | Tues | April 11, 2017 | 10.15-11.45 | HPV vaccines | Prof. Green |
| 7 | Tues | April 18, 2017 | 10.15-11.45 | Vaccines and eradication of diseases | Prof. Green |
| 8 | Tues | April 25, 2017 | 10.15-11.45 | DTP vaccines | Prof. Green |
| 9 | Tues | May 2, 2017 | 10.15-11.45 | Controversies on vaccines | Prof. Green |
| 10 | Tues | May 9, 2017 | 10.15-11.45 | Use of adjuvants in vaccines | Prof. Green |
| 11 | Tues | May 16, 2017 | 10.15-11.45 | Student presentations | Prof. Green |
| 12 | Tues | May 23, 2017 | 10.15-11.45 | Student presentations | Prof. Green |
| 13 | Tues | May 30, 2017 | 10.15-11.45 | Student presentations | Prof. Green |
| 14 | Tues | June 6, 2017 | 10.15-11.45 | Student presentations | Prof. Green |