**FOM 2213 COMMUNITY DIAGNOSIS AND COMMUNICATIONS**

**Course description:**

This course is intended to expose students to applications of Epidemiological methods and steps in carrying out a community diagnosis. The course will also highlight practical aspects of communication, practical application of computer skills and basic methods of epidemic investigations and assessment of nutritional status.

**Course Objectives:**

1. To describe epidemiological and statistical methods of investigations

2. To describe the principles of community diagnosis

3. To describe the methods used in the assessment of nutritional status

4. To describe steps in community diagnosis in order to understand the health requirements of a community

5. To demonstrate ability to use computer programs and statistical packages.

6. To describe the application of computer programs in statistical analysis

7. To demonstrate communication and counseling skills in the community

Content:

Epidemiology: surveys designs (case-control and cohort), content surveys, epidemics, outbreaks, verification of diagnosis, establishment of outbreak existence, investigation and management of epidemics

Bio-statistics: application of statistical method in health and diseases, parametric and non-parametric methods, testing of hypothesis, statistical tests;

Nutritional assessment of individuals and a community, dietary assessment, anthropometric assessment of growth. Prevalence of various forms of malnutrition

Microbiology, hematology and Biochemistry: common lab tests done at health centers and others.

Pharmacology: essential national drug list, guidelines for drug use and rational for drug use

Nursing science/Family/School Health: vaccine handling and immunization programs, family planning, counseling, adolescent friendly health services

Communication and counseling skills

Community Research methods: design and use of data collection tools, PRA (Participatory Research Appraisal), design and use of data collection tools, secondary data review, data analysis and report writing

Community activities: collection of data from a health center, community by observation, participatory assessment techniques, questionnaire and other methods, Data analysis, report writing, dissemination (oral presentation)

Computer literacy: Power point presentation techniques, Internet use – Info search

Statistical packaging

Information, Education, Communication material development

**Requirements:**

**5weeks, 75 CH**

**Mode of assessment**

Progressive assessment 40%

Written summative examination 60%

**Course coordinator**

Dr. Isaac Okullo

**Reading materials**

1. [Epidemiology : study design and data analysis /](http://81.199.17.5:8000/cgi-bin/gw_42_20a/chameleon?host=81.199.17.5%2b1111%2bDEFAULT&search=SCAN&function=INITREQ&SourceScreen=INITREQ&sessionid=2006101809571219106&skin=default&conf=.%2fchameleon.conf&lng=en&itemu1=4&u1=4&t1=Epidemiology%20%3a%20study%20design%20and%20data%20analysis%20%2f&pos=1&prevpos=1&beginsrch=1)[Boca Raton, FL : Chapman & Hall/CRC Press, c1999.](http://81.199.17.5:8000/cgi-bin/gw_42_20a/chameleon?host=81.199.17.5%2b1111%2bDEFAULT&search=SCAN&function=INITREQ&SourceScreen=INITREQ&sessionid=2006101809571219106&skin=default&conf=.%2fchameleon.conf&lng=en&itemu1=2009&u1=2009&t1=Boca%20Raton,%20FL%20%3a%20Chapman%20%26%20Hall%2fCRC%20Press,%20c1999.&pos=1&prevpos=1&beginsrch=1)

2. Survey methods in community medicine/Churchill livingstone, 1999

3. Epidemiology in medical practice/Churchill livingstone, 1998