**BBS 3222 Physiological assessment of body systems**

**Course description**

This course covers the assessment of body systems, including the machines and materials used. It will expose the students to correctly collect the spacemen’s, store them safely, analyse them and make correct reports. The types and the operations of the machines used in these assessments. This course will cover the four systems i.e. Cardio-respiratory, renal, endocrine and gastrointestinal systems. The course involves tutorials, lectures, seminars and practical sessions.

**Course Objectives**

* To identify the physiological assessment tools of body systems
* To discuss the machines, materials and reagents used in the body systems.
* To describe the uses and maintenance of a physiology lab equipment
* To demonstrate physiological functions of body systems.

**Learning outcomes:**

At the end of the course students will be able to demonstrate physiological functions of body systems. They will be able to purchase and maintain physiology labs and will be able to interpret the results and make reports of the outcomes.

**Content outline**

Assessment of the heart, cardiovascular, respiratory, renal, reproduction and the endocrine systems. Blood pressure, ECG, Spirometry, calorimetry, Analysis of respiratory gases. Urinalysis, urine proteins and sugars, electrolytes in body fluids, Basal metabolic rate, metabolism during exercise, Measurement of body fluid components, ELISA tests, Blood grouping.

**Requirements:**

4 Weeks, 60 CH

**Mode of assessment**

Practical examination 40%

Final summative examination 60%

**Course coordinator**

Dr. Josephine Kasolo MBChB, MSc (MUK)

**Reading materials**

1. . [Textbook of medical physiology](http://81.199.17.5:8000/cgi-bin/gw_42_20a/chameleon?host=81.199.17.5%2b1111%2bDEFAULT&search=KEYWORD&function=INITREQ&SourceScreen=INITREQ&sessionid=2006101717302405175&skin=default&conf=.%2fchameleon.conf&lng=en&itemu1=2000&scant1=Textbook%20of%20medical%20physiology%20%2f&scanu1=4&u1=2000&t1=@23812&pos=1&prevpos=1&), [Philadelphia: Saunders, 2000](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=2006101717302405175&skin=default&conf=.%2fchameleon.conf&lng=en&itemu1=2009&u1=2009&t1=Philadelphia%20%3a%20Saunders,%20c2000.&pos=1&prevpos=1&beginsrch=1)