**BBS 3203 TOXICOLOGY, SUBSTANCE ABUSE AND DRUG SAFETY ISSUES**

**Course description**

This course covers the Principals of Toxicology and Drug abuse (substance abuse). It also covers in detail, all issues of Drug safety.

 The course involves tutorials, lectures and seminars.

**Course Objectives**

To describe the principals of toxicology and drug abuse.

To describe the adverse effects of chemicals on biological systems.

To give an overview of non therapeutic use of alcohol and drugs of abuse.

To outline measures taken to treat poisoning and substance abuse

**Course outline:**

Key definitions**;** Toxicology, Drug toxicity, Drug adverse reactions, Drug/substance abuse, Poison, Poisoning.

Dose- response relationship, acute versus chronic exposure to a drug or chemical.

The various types of toxic reactions including; Local versus systemic Toxicity; Reversible and Irreversible toxic effects; Delayed Toxicity.

Allergic Reactions; Idiosyncratic Reactions; Chemical Carcinogens

Drug abuse, Drug addiction, Substance-abuse prevention, Substance-abuse rehabilitation and Substance –abuse treatment.

Drug safety issues with emphasis to:-

Medicine safety, who is at risk and what you can do.

Buying and using medicines safely.

**Course coordinator:**

Prof. Celestino Obua

**Requirements**

60 contact hours equivalent to 4 CU

**Mode of assessment**

Progressive assessment 40%

End of Semester exam 60%.

**Reading materials**

1. [Goodman and Gilman's pharmacological basis of therapeutics: /](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=Goodman%20and%20Gilman%27s%20%20pharmacological%20basis%20of%20therapeutics%3a%20%20%2f&pos=1&prevpos=1&beginsrch=1)[New York : MacGraw-Hill , 1996](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=New%20York%20%3a%20MacGraw-Hill%20,%201996&pos=1&prevpos=1&beginsrch=1)

2. Basic and clinical pharmacology/[New York : MacGraw-Hill , 2002](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=New%20York%20%3a%20MacGraw-Hill%20,%201996&pos=1&prevpos=1&beginsrch=1)

3. Pharmacology/Churchill and livingstone, 2002

4. Clinical pharmacology/ Curchill and livingstone, 2002