SYLLABUS

DATE OF LAST REVIEW: 02/11/2013
CIP CODE: 51.1601
SEMESTER: Departmental Syllabus
COURSE TITLE: General Pharmacology
COURSE NUMBER: BIOL-0116
CREDIT HOURS: 3
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
OFFICE HOURS: Departmental Syllabus
TELEPHONE: Departmental Syllabus
EMAILS: DEPARTMENTAL SYLLABUS

PREREQUISITES: Basic computer skills are necessary. Please review the On-Line Course Requirements.

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, http://www.kckccbookstore.com/, for the required texts for your particular class.

COURSE DESCRIPTION:
The General Pharmacology course provides students with a concise introduction to pharmacology. The mechanisms of action, sites of action, and side effects of drugs will be presented. Emphasis will be placed on toxic signs, adverse drug reactions, and any special management issues relevant to the various classes of drugs.

METHOD OF INSTRUCTION:
A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, and panels, conferencing, learning experiences, and performances outside the classroom. Methodology will be selected to best meet student needs.
COURSE OUTLINE:

I. Foundations of Clinical Pharmacology
II. Drugs That Affect the Neurological System
III. Drugs That Affect the Respiratory System
IV. Drugs That Affect the Cardiovascular System
V. Drugs That Affect the Gastrointestinal and Urinary System
VI. Drugs That Affect the Endocrine and Reproductive System
VII. Drugs That Affect the Immune System
VIII. Drugs That Affect Other Body Systems

EXPECTED LEARNER OUTCOMES:

A. The student will be able to explain the general concepts and principles of pharmacology.
B. The student will be able to discuss the types of drug reactions that may occur.
C. The student will be able to discuss the various types of drug reactions produced in the body.
D. The student will be able to identify factors that influence drug action.
E. The student will be able to discuss the use and interactions associated with each class of drugs.

COURSE COMPETENCIES:

The student will be able to explain the general concepts and principles of pharmacology.

1. The student will be able to define key terminology specific to the basic principles of pharmacology.
2. The student will be able to name and describe the major classes of drugs.

The student will be able to discuss the types of drug reactions that may occur.

3. The student will be able to describe actions of the major classes of drugs.

The student will be able to discuss the various types of drug reactions produced in the body.

4. The student will be able to discuss the activity of the central nervous system, the peripheral nervous system, the sympathetic and parasympathetic nervous systems.
5. The student will be able to name and describe the major classes of drugs affecting the neurological system.
6. The student will be able to name and describe the major classes of drugs affecting the respiratory system.
7. The student will be able to name and describe the major classes of drugs affecting the cardiovascular system.
8. The student will be able to name and describe the major classes of drugs affecting the gastrointestinal system.
9. The student will be able to name and describe the major classes of drugs affecting the urinary system.
10. The student will be able to name and describe the major classes of drugs affecting the endocrine system.
11. The student will be able to name and describe the major classes of drugs affecting the reproductive system.
12. The student will be able to name and describe the major classes of drugs affecting the immune system.
13. The student will be able to name and describe the major classes of drugs affecting the musculoskeletal system.

The student will be able to identify factors that influence drug action.

14. The student will be able to describe various side effects of drugs.
15. The student will be able to identify factors that may affect drug response.
16. The student will be able to discuss the use of the major classes of drugs.

The student will be able to discuss the use and interactions associated with each class of drugs.

17. The student will be able to discuss common symptoms/disorders for which each pharmacological agent is used.
18. The student will be able to recall key points to know about using each pharmacological agent.
19. The student will be able to identify and discuss the mechanisms that produce unwanted drug reactions.
20. The student will be able to select authoritative sources of drug information.
21. The student will be able to explain how the half-life of a drug influences the time required to attain a steady state concentration in the body.
22. The student will be able to identify factors that may result in altered drug effects in special populations.
23. The student will be able to identify those at risk for drug toxicities.
24. The student will be able to identify the pharmacokinetic phase of drug action.
25. The student will be able to identify the pharmacodynamic phase of drug action.

ASSESSMENT OF LEARNER OUTCOMES:

Quizzes, examinations, projects, case studies, assigned readings, research, and assignments. Attention is placed on punctuality in meeting assigned deadlines.

All assignments are to be completed by the specified deadline. Zero points are given for work that is turned in after time specified.

EVALUATION OF STUDENT PROGRESS:

90 – 100% = A
89 - 80% = B
79 - 70% = C
69 – 60% = D
Below 60% = F

**SPECIAL NOTES:**
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of the Academic Resource Center, in room 3354 or call at: 913-288-7670.