SYLLABUS

DATE OF LAST REVIEW: 02/11/2013
CIP CODE: 24.0101
SEMESTER: Departmental Syllabus
COURSE TITLE: Drugs and Dosages I
COURSE NUMBER: ALHT0110
COURSE HOURS: 1
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
OFFICE HOURS: Departmental Syllabus
TELEPHONE: Departmental Syllabus
EMAIL: Departmental Syllabus

KCKCC-issued email accounts are the official means for electronically communicating with our students.

PREREQUISITE(S): None

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

COURSE DESCRIPTION: Drugs and Dosages I is an introductory course in pharmaceutical arithmetic that assists students in solving the mathematics of drugs and solutions encountered in the everyday routine of administering medications. Drug actions and interactions on the human body are discussed.

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.

Online Sections: Online courses rely on the use of the Internet and a course management system for content delivery. Courses are accessible both on campus and
from most remote sites. Specific information regarding computer skills and system requirements can be found at http://helpdesk.kckcc.edu/helpdesk/

COURSE OUTLINE:
I. Basic Arithmetic Skills
   A. Fractions and Decimals
   B. Conversions
   C. Proportions
II. Conversions – Interpretation and Expression
   A. Metric
   B. Apothecary
   C. Household
III. Equipment
   A. Recognition
   B. Selection
   C. Calibrations
IV. Medication Orders
   A. Medical Notation and Administration
   B. Drug Labels
V. Drug Dosages
   A. Tablets, Capsules, and Liquids
   B. Parenteral
   C. Reconstitution
   D. Pediatric Body Weight Method and Safe Dosage

EXPECTED LEARNER OUTCOMES:
A. The student will be able to demonstrate mastery of basic arithmetic skills.
B. The student will be able to perform conversions.
C. The student will be able to measure the prescribed dosages using appropriate equipment.
D. The student will be able to interpret the medication order.
E. The student will be able to calculate drug dosages.

COURSE COMPETENCIES:

The student will be able to demonstrate mastery of basic arithmetic skills.
1. The student will be able to add, subtract, multiply, divide, compare, and round fractions and decimals.
2. The student will be able to convert among fractions, decimals, and percents.
3. The student will be able to solve proportions.

The student will be able to perform conversions.
4. The student will be able to interpret and properly express metric, apothecary, and household notation and convert units within and between systems of
The student will be able to measure prescribed dosages using appropriate equipment.

5. The student will be able to recognize and select appropriate equipment and read and interpret the calibrations on the equipment for the medication, dosage, and method of administration ordered.

The student will be able to interpret the medication order.

6. The student will be able to read, understand, and write the notation that specifies the dosage, route, and frequency of the medication to be administered.
7. The student will be able to understand and use the components of drug labels in the administration of prescribed dosages.

The student will be able to calculate drug dosages.

8. The student will be able to calculate the number of tablet/capsules or volume of liquid.
9. The student will be able to calculate the milliliters of parenteral dosages.
10. The student will be able to reconstitute medication supplied in powder or dry form.
11. The student will be able to calculate pediatric dosages using the body weight method and determine safe dosage.

ASSESSMENT OF LEARNER OUTCOMES:
Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

SPECIAL NOTES:
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, include 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, Room 3354 or call: 913-288-7670.