SYLLABUS

DATE OF LAST REVIEW: 02/11/2013

CIP CODE: 24.0101

SEMESTER: Departmental Syllabus

COURSE TITLE: Drugs and Dosages II (online)

COURSE NUMBER: ALHT0111

COURSE HOURS: 1

INSTRUCTOR: Department Syllabus

OFFICE LOCATION: Department Syllabus

OFFICE HOURS: Department Syllabus

TELEPHONE: Department Syllabus

PREREQUISITE(S): ALHT0110 or previous experience.

REQUIRED TEXT AND MATERIALS: Please see bookstore for current textbook(s) and other current material.

COURSE DESCRIPTION: Drugs and Dosages II continues the study of the pharmaceutical arithmetic that assists students in solving the mathematics of drugs and solutions encountered in the everyday routine of administering medications. This course is designed for the student who has prior experience with and/or has taken the introductory course. The previous course concepts will be briefly reviewed. The emphasis will be on pediatric dosage and intravenous dosage calculations.

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://support.kckcc.edu
COURSE OUTLINE:
I. Review
II. Pediatric Drug Dosages
   A. Body Weight Method
   B. Safe Dosage
   C. Body Surface Area

III. Intravenous Calculations
   A. Milliliters per Hour
   B. Drops per Minute
   C. Infusion Time and Fluid Volumes
   D. Pediatric Infusion Control Sets
   E. Children’s Maintenance Fluids
   F. Heparin
   G. Critical Care IV Medications
   H. Primary IV and IV Piggyback

EXPECTED LEARNER OUTCOMES:
I. The student will be able to use appropriate material from Drugs and Dosages I in calculating dosages.
II. The student will be able to calculate pediatric drug dosages.
III. The student will be able to perform intravenous solution calculations.

COURSE COMPETENCIES:
I. The student will be able to use appropriate material from Drugs and Dosages I in calculating dosages.
   A. The student will be able to demonstrate basic arithmetic skills.
   B. The student will be able to perform drug dosage calculations using appropriate conversions and methods.

II. The student will be able to calculate pediatric drug dosages.
   A. The student will be able to calculate pediatric drug dosages using the body weight method.
   B. The student will be able to determine if the prescribed pediatric dosage is a safe dosage.
   C. The student will be able to calculate pediatric drug dosages using the body surface area (BSA) method.

III. The student will be able to perform intravenous solution calculations.
   A. The student will be able to calculate IV flow rate in milliliters per hour (mL/h).

   B. The student will be able to calculate IV flow rate in drops per minute (gtts/min).
   C. The student will be able to calculate IV infusion time and fluid volumes.
   D. The student will be able to calculate IV medications to be used with pediatric infusion control sets.
E. The student will be able to calculate the daily rate of children’s maintenance fluids.
F. The student will be able to calculate and assess safe hourly heparin dosages.
G. The student will be able to calculate flow rate and assess safe dosages for critical care IV medications administered over a specified time period.
H. The student will be able to calculate the flow rate for primary IV and IV piggyback solutions for patients with restricted fluid intake.

ASSESSMENT OF LEARNER OUTCOMES:
Assessment methods may include but are not limited to homework, quizzes, class participation, chapter tests, and the final exam.

The course grade is determined by this grading scale:
A = 90% and above
B = 89% - 80%
F = 79% and below
There is no grade of C or D in Drugs and Dosages II

SPECIAL NOTES:
This syllabus is subject to change at the discretion of the instructor. Material included is meant 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 Valerie Webb, Room 3354 or 288-7670 V/TDD.