CASPER COLLEGE COURSE SYLLABUS

Calculations for Health Care

HLTK 1000  Sections 01 and 02

Term: Fall 2006

Sections: 1  Lab Hours: 0  Credit Hours: 1 Semester hour

Instructor's Name: Heather Huber, RN, MS

Instructor’s Contact Information: Office Phone: 268-2279  Email: hhuber@caspercollege.edu

Office: Health Science 205

Office Hours: Mondays from 3 to 5 p.m., and Tuesdays from 8 to 10 a.m., and by appointment on Fridays.

Course Description:
This course consists of a review of basic arithmetic, an introduction to the metric and apothecary systems, and computation of medication dosages.

Statement of Prerequisites:
Admission to the pharmacy technician, nursing program, or permission of the instructor. Students must also have a “C” or better in DVST 0920, or an ACT score of 21 within the past year, or an appropriate COMPASS Exam score of 40 or above in algebra.

Nursing student co-requisites: NRST 1615, NRST 1605, and concurrent enrollment in HLTK 1220 if not previously completed.

Course Outcomes:
Upon completion of this course, the student should be able to:
1. identify and utilize the principles of basic arithmetic
2. find the value of an unknown in a proportion
3. convert between the metric, household, and apothecary systems
4. calculate drug dosage and solution amounts using the metric and apothecary systems
5. calculate I.V. flow rates

Methodology:
Readings from text with application problems in text, on the accompanying CD-ROM and in class, discussions and assignments online, weekly quizzes, final exam.

Evaluation Criteria:
Thirteen quizzes will be given, each worth 20 points. The lowest score will be dropped for a total of 240 possible points on quizzes. A special “safety plan” assignment will be available to earn back partial credit for incorrect answers on quizzes. Absence will result in 0 points on a quiz. No make-up quizzes will be offered.

Participation in twelve of thirteen online discussion topics, each worth 5 points, totalling a possible 60 points for the semester. The final exam will cover the entire semester's material and will be worth 300 points: 75 questions, 4 points each.

A "C" or better is required to pass this course. Please note that the lowest number of points for a passing grade in this class is 480 of the total available 600 points.

Calculators will be permitted for quizzes until midway through the semester.

**Grading scale:**

Term grades will include the first 6 quizzes (including points earned from “safety plan” development) and discussions. (Note that no grades are dropped in the calculation of midterm grades.)

- 141 - 150 = A
- 131 - 140 = B
- 120 - 130 = C
- 110 - 119 = D*
- 109 and below = F*

Calculate your grade going into the final exam, add the points for 12 quizzes (including points earned from “safety plan”, discussions, having dropped the lowest grade from each category.

- 282 – 300 = A
- 261 – 281 = B
- 240 – 260 = C
- 219 – 239 = D*
- 218 and below = F*

(The final exam is graded on the scale of 300 possible points)

Final grade in the course is based on total quiz, discussion and final exam points:

- 564 - 600 = A
- 522 - 563 = B
- 480 – 521 = C
- 438 – 479 = D *
- 437 and below = F *

*Note: These 2 steps of the scale are not considered passing for this course.

Nursing Students must pass this course to progress to NRST 1625. Pharmacy Technician students must pass this course to progress to PHTK 1630.
Required Text, Readings, and Materials:

A.M., (2005). Math for Meds: Dosages and Solutions, 9th Edition, Clifton Park, NY: Thompson Delmar Learning. This text is accompanied by practice software for computer-based interactive learning. Also available in HS 211: Dosage Calculations. This program provides more problems to work, however rounds numbers differently than our book, so some answers may differ by slight amounts.

Units of Instruction and Theory Hours:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Refresher Math</th>
<th>Calculating Dosages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit I</td>
<td>2 hours</td>
<td></td>
</tr>
<tr>
<td>Unit II</td>
<td>13 hours</td>
<td></td>
</tr>
</tbody>
</table>

Last Date to Change to Audit Status or to Withdraw with a W Grade:

November 3, 2006 at 5:00 p.m.

Student Rights and Responsibilities: Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command: If you have any problems with this class, you should first contact the instructor in order to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take your problem through the appropriate chain of command starting with the department head, then the division chair, and lastly the vice president for academic affairs.

Academic Dishonesty - Cheating & Plagiarism: Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from the college. See the Casper College Student Code of Conduct, Casper College Catalog.

ADA Accommodations Policy: It is the policy of Casper College to provide appropriate accommodations to any student with a documented disability. If you have a need for accommodation in this course, please make an appointment to see me at your earliest convenience.

Conduct: There is an expectation that students will conduct themselves in a civil and respectful manner during class sessions and in interactions with their instructors and peers.