Course Data:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>No.</th>
<th>Course Title</th>
<th>Credit</th>
<th>Lecture</th>
<th>Lab</th>
<th>Clin</th>
<th>Fee</th>
</tr>
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<tbody>
<tr>
<td>MAT</td>
<td>099</td>
<td>Math for Meds</td>
<td>1.0</td>
<td>1.0</td>
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Prerequisite(s): MAT 055 (with a minimum grade “C”) or qualifying score on placement test

Catalog Course Description: Examines and teaches concepts in dosage calculations, metric system, and conversions as applied to Nursing. Clinical application is included, using simulated case situations directly related to the student’s field of study.

I. Course Objectives: For courses approved by ICCB, it is presumed students will spend a minimum of 2 hours outside study for each hour in class in order to meet the following objectives. Attach additional pages as needed.

Upon successful completion of this course, the student should be able to:

1. Identify and apply the basic properties of the metric system.
2. Convert from one metric unit to another.
3. Convert from the English to metric system and vice-versa.
4. Calculate the appropriate milligram dosage, given the mg/kg dose.
5. Use ratios, proportions decimals and percentages to calculate dosages and other physiologic calculations.
6. Analyze and solve simulated word problems that involve dosage calculations.
II. Resources Utilized:

A. Required textbook(s)/workbook(s) (list title, author, publisher, date of publication):

B. Supplementary texts/and materials:
   Videos in the nursing tutoring lab.

C. Other resources utilized:

III. Objective Instructional Strategies: Check and comment as needed on the instructional methods utilized to attain the course objectives:

   - X Lecture
   - X Lecture/Demonstration
   - X Laboratory
   - Clinical Lab
   - Internship
   - Independent Study
   - Other: ________________________________

   Comments: instructional methods utilized (optional): ________________________________
   - Computer terminal software, Videotapes, Overhead Transparencies

IV. Evaluation: Check the evaluation methods utilized to monitor progress toward attainment of course objectives:

   - X Quizzes
   - X Examinations
   - X Mid-term
   - Written assignments
   - Laboratory skills
   - Oral participation
   - Projects
   - Examination
   - Journal
   - Presentations
   - Clinical progress
   - Reports
   - Projects
   - Oral participation
   - Clinical progress
   - Journal
   - Progress report
   - Coop experience
   - Progress report
   - Coop experience
   - Other: ________________________________

   Check the evaluation method utilized to determine whether final course objectives have been attained:

   - X Final (written) examination
   - X Final (oral) examination
   - Final clinical/laboratory examination
   - Final skills test
   - Course projects
   - Term papers
   - Portfolio
   - Final coop experience
   - Other: ________________________________

   ________________________________
V. **Course Plan:** The distribution of contact hours by topic and session.

<table>
<thead>
<tr>
<th>TOPIC</th>
<th>CONTACT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Math Review/Order of Operations</td>
<td>1</td>
</tr>
<tr>
<td>Systems of Measurements</td>
<td>1</td>
</tr>
<tr>
<td>Conversions and additional systems of measure</td>
<td>2</td>
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<tr>
<td>Reading medication labels</td>
<td>1</td>
</tr>
<tr>
<td>Dosage Measurements and calculations</td>
<td>1</td>
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<tr>
<td>Oral Dosages</td>
<td>1</td>
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<tr>
<td>Parenteral or inhaled Dosages</td>
<td>2</td>
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<tr>
<td>Using Ratios and Proportions to Calculate Dosages</td>
<td>2</td>
</tr>
<tr>
<td>Pediatric Dosages</td>
<td>2</td>
</tr>
<tr>
<td>Intravenous or continuous aerosol Dosages</td>
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<tr>
<td><strong>Total</strong></td>
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