### NUR 1142  
**Introduction to Nursing Math & Pharmacology**

**Course Description:**
Students will learn concepts of medications including history, nomenclature, sources of drug information, federal drug laws and standards, medication classifications, pharmacokinetics, pharmacodynamics, variables affecting medication actions and effects, and methods of delivery. Pre-Req: Program Admission; Co-Req: NUR 1025, 1025C, 1060C or NUR 1002, 1002L.

<table>
<thead>
<tr>
<th>Course Competency</th>
<th>Learning Outcomes</th>
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| **Competency 1:** The student will apply concepts of medication administration by: | • Numbers / Data  
• Critical thinking  
• Information Literacy  
• Ethical Issues |
| 1. Describing the routes by which medications enter the body. |  
2. Identifying and converting units of weights and measures. |  
3. Calculating dosages defining the common abbreviations used in pharmacology. |  
4. Discussing the role of the nurse in maintenance of fluid balance by recording intake and output data. |  
5. Calculating a fluid balance record in a simulated client situation. |
| **Competency 2:** The student will discuss the responsibilities relating to the nurse’s role in medication administration by: | • Numbers / Data  
• Critical thinking  
• Information Literacy  
• Ethical Issues |
| 1. Delineating legal aspects of medication administration. |  
2. Describing the five rights of medication administration. |  
3. Listing the components of a medication order. |  
4. Selecting authoritative sources for medication information. |  
5. Describing common sources of medication errors. |

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6. Discussing what to tell patients about safe medication use.  
7. Relating the nursing process to medication administration

**Competency 3:** The student will apply principles of pharmacodynamics and pharmacokinetics to safe medication administration by:

1. Describing the mechanisms by which drugs move through the body.  
2. Discussing drug actions at the cellular level explaining the variables that affect drug actions.  
3. Giving examples of client-related variables that affect drug actions.

- Critical thinking  
- Information Literacy  
- Ethical Issues