



**Division of Human Services  
Associate Degree Nursing Program**

**NDEG 26A – PHARMACOLOGY I**

**LECTURE SCHEDULE**

<b>TOTAL UNITS</b>	2.0 Unit
<b>LECTURE:</b>	4 hours per week (9 weeks) Monday, 430pm – 830pm
<b>PREREQUISITIES:</b>	Concurrent enrollment in NDEG 28 or acceptance into the evening/weekend Associate Degree nursing program.
<b>INSTRUCTOR:</b>	Eliza Rivera-Mitu, RN, MSN Office AHB # 16 Ext. 2726 E-Mail: <a href="mailto:Rivera-Mitu_E@compton.edu">Rivera-Mitu_E@compton.edu</a>

**Compton Community College**  
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DATE/TOPICS	ACTIVITIES
<p><b>WEEK 1</b>  <b>Monday, March 20, 2006</b></p> <p><b>Read:</b>  <b>Pickar</b>  <b>Chapter 3</b>                <b>Pages 59-71</b>  Systems of Measurement  <b>Chapter 4</b>                <b>Pages 73-92</b>  Metric, Apothecary, and Household Systems  <b>Chapter 6</b>                <b>Pages 101-116</b>  Equipment used in dosage measurement  <b>Chapter 8</b>                <b>Pages 133-149</b>  Understanding drug labels</p>	<p style="color: red;"><b>REVIEW OF ARITHMETIC ~ DIAGNOSTIC TEST</b></p> <p><b>Accucalc Interactive computerized program</b>  (available in media lab)</p> <ul style="list-style-type: none"> <li>• Chapter 1 – Math Review</li> <li>• Chapter 2 – System Conversion</li> <li>• Chapter 3 – Conversion</li> <li>• Chapter 6 – Understanding labels</li> <li>• Chapter 7 – Methods to calculate drug dosages</li> </ul> <p><b>Independent Media Lab Assignment:</b>  <b>DUE March 27, 2006</b>  <b>Learning System RN Dosage Calculation Tutorial &amp; Assessment:</b></p> <ul style="list-style-type: none"> <li>• Calculating Oral medications</li> <li>• Calculating injectable medications</li> <li>• Parenteral medications</li> <li>• Medication administration</li> </ul>
<p><b>WEEK 2</b>  <b>Monday, March 27, 2006</b></p> <p><b>Read:</b>  <b>Lilley, Harrington &amp; Snyder</b>  <ul style="list-style-type: none"> <li>• <b>Chapter 1</b>                <b>Pages 7-15</b>  The nursing process and drug therapy</li> <li>• <b>Chapter 2</b>                <b>Pages 16-35</b>  Pharmacological Principles</li> <li>• <b>Chapter 6</b>                <b>Pages 69-75</b>  Patient education and drug therapy</li> </ul> </p>	<p style="color: red;"><b>QUIZ #1 – DOSAGE CALCULATION EXAM</b></p> <p><b>Assignment: Due Monday, March 27, 2006</b></p> <ul style="list-style-type: none"> <li>• Complete the e-learning activities listed on pages 7, 16, &amp; 69. Print out the results of the online multiple questions and submit to Ms. Rivera-Mitu on the due date. (10 pts)</li> <li>• Explore the website of the United States Pharmacopeia, in the Safety section, (<a href="http://www.usp.org/patientsafety">www.usp.org/patientsafety</a>) or the website of the Institute for Safe Medication practices (<a href="http://www.ismp.org">www.ismp.org</a>) and report back to the class with a one-index-card report on one of the functions of the organizations. (5 pts).</li> <li>• Go to <a href="http://www.ahrq.gov/qual/errorsix.htm">www.ahrq.gov/qual/errorsix.htm</a> and read the article on Medication Errors and Safety. Submit a one-page report on what you learned from the article. (5 pts).</li> </ul>
<p><b>WEEK 3</b>  <b>Monday, April 3, 2006</b></p> <p><b>Read:</b>  <ul style="list-style-type: none"> <li>• <b>Lilley, Harrington &amp; Snyder</b>  <b>Chapter 3</b>    <b>Pages 36-46</b>  Lifespan considerations</li> <li><b>Chapter 4</b>    <b>Pages 47-58</b>  Legal, ethical, and cultural considerations</li> <li><b>Chapter 5</b>    <b>Pages 59-68</b>  Medication errors: preventing and responding</li> </ul> </p>	<p style="color: red;"><b>QUIZ #2 – CHAPTERS 1, 2, &amp; 6</b></p> <p><b>Assignment: Due Monday, April 3, 2006</b></p> <ul style="list-style-type: none"> <li>• Complete the e-learning activities listed on pages 36, 47, &amp; 59. Print out the results of the online multiple questions and submit to Ms. Rivera-Mitu on the due date. (10 pts)</li> </ul> <p><b>Independent Media Lab Assignment:</b>  <b>DUE April 3, 2006</b>  <b>Learning System RN</b></p>

**Compton Community College**  
**Division of Human Services**  
**Associate Nursing Degree Program**  
**NDEG 26A – Pharmacology I**

<p><b>Chapter 9 Pages 98-142</b> Photo Atlas of drug administration</p> <ul style="list-style-type: none"> <li>• <b>Pickar</b></li> </ul> <p><b>Chapter 7 Pages 117-132</b> Interpreting drug orders</p>	<ul style="list-style-type: none"> <li>• <b>Dosage Calculation Tutorial &amp; Assessment - Safe dose</b></li> </ul> <p><b>Watch videos:</b></p> <ul style="list-style-type: none"> <li>• 175 – Physiological changes affecting drug action (30 min)</li> <li>• 242 – Administering oral, topical, suppository, and inhalant medications (23 min)</li> </ul> <p><b>Student group assignment:</b> Defined into small groups of 2-3 students and illustrate the following principles on posters that can be displayed in the classroom for review:</p> <ul style="list-style-type: none"> <li>• Medication misadventures (adverse drug events and adverse drug interactions)</li> <li>• First-pass effect</li> <li>• Half-life (including a calculation for a specific drug, such Digoxin our warfarin)</li> <li>• Chemical, generic and trade names</li> <li>• Onset, peak, duration</li> <li>• Therapeutic index</li> <li>• Additive and synergistic effects</li> <li>• Antagonistic drug interactions</li> <li>• Contraindication</li> <li>• Drug-induced Teratogenesis</li> <li>• Iatrogenic response</li> </ul> <p><b>This project is due on April 3, 2006 and is worth a maximum of 20 pts.</b></p>
<p><b>Monday, April 10, 2006</b></p>	<p>SPRING BREAK - ENJOY</p>
<p><b>WEEK 4</b> <b>Monday, April 17, 2006</b></p> <p><b>Read:</b></p> <ul style="list-style-type: none"> <li>• <b>Lilley, Harrington &amp; Snyder</b></li> </ul> <p><b>Chapter 10 Pages 145-168</b> Analgesic agents</p> <p><b>Chapter 11 Pages 169-185</b> General and local anesthetics</p> <p><b>Chapter 8 Pages 86-97</b> Substance abuse</p> <p><b>Chapter 7 Pages 76-85</b> Over the counter drugs and herbal products</p> <p><b>Chapter 31 Pages 514-533</b> Antidiabetic Agents</p> <ul style="list-style-type: none"> <li>• <b>Pickar</b></li> </ul> <p><b>Chapter 10 Pages 199-211</b> Parenteral dosage of drugs</p>	<p><b>UNIT EXAM 1 – Chapters 4, 5, 6, 9</b></p> <p><b>Assignments due on Monday, April 17, 2006:</b></p> <ul style="list-style-type: none"> <li>• Complete the e-learning activities listed on pages 76, 86, 145 , 169. Print out the results of the online multiple questions and submit to Ms. Rivera-Mitu on the due date. (25 pts).</li> <li>• Identify the various resources, including web sites, for substance abuse information. Present this information on a one-page report and submit to class on the due date. (10 pts.)</li> <li>• Divide into small groups, select and complete one of the following student activities (15 pts): <ul style="list-style-type: none"> <li>• Interview of friends or family member regarding OTC medications used. Obtain a list of medications used and then research whether any potential interaction exist.</li> <li>• Bring in and share with the class examples of herbal/folk remedies that have been used in your families. Discuss their effectiveness and</li> </ul> </li> </ul>

**Compton Community College**  
**Division of Human Services**  
**Associate Nursing Degree Program**  
**NDEG 26A – Pharmacology I**

	<p>compare to various remedies discussed.</p> <ul style="list-style-type: none"> <li>• Research one of the following herbal products: aloe, Echinacea, garlic, ginseng, St. John's Wort, ginkgo, saw palmetto, and discuss the manufacturers claims, potential side effects, potential drug interactions, cost of the preparation, and nursing implications.</li> </ul> <p><b>Watch Videos:</b></p> <ul style="list-style-type: none"> <li>• <b>024.5</b> – Basic Clinical Skills: Administering Intramuscular, Intradermal, &amp; Subcutaneous Injections (25:01)</li> <li>• <b>242</b> – Administering Oral, Topical, Suppository and Inhalant Medications (23 min)</li> </ul> <p>100- Unit exam</p>
<p><b>WEEK 5</b>  <b>Monday, April 24, 2006</b></p> <p><b>Read:</b></p> <ul style="list-style-type: none"> <li>• <b>Lilley, Harrington &amp; Snyder</b>  <b>Chapter 31</b>            <b>Pages 514-533</b>  Antidiabetic Agents</li> </ul>	<p><b>MIDTERM EXAM (UNIT EXAM 2) – ALL CHAPTERS DISCUSSED FROM WEEKS 1-4</b></p> <p><b>Assignment due on Monday, April 24, 2006:</b>  Complete the e-learning activities listed on page 514. Print out the results of the online multiple questions and submit to Ms. Rivera-Mitu on the due date. (5 points).</p> <p><b>Independent Media Lab Assignment:</b>  <b>DUE April 24, 2006</b>  <b>Learning System RN</b></p> <ul style="list-style-type: none"> <li>• <b>Dosage Calculation Tutorial &amp; Assessment -</b>  Calculating powdered medications</li> <li>• <b>Pharmacology – Exam 4 - Analgesics, Antimicrobial &amp; Antiinfective, Endocrine Drugs</b></li> </ul>
<p><b>WEEK 6</b>  <b>Monday, May 1, 2006</b></p> <p><b>Read:</b></p> <ul style="list-style-type: none"> <li>• <b>Lilley, Harrington &amp; Snyder</b>  <b>Chapter 37</b>            <b>Pages 617-653</b>  Antibiotics</li> <li>• <b>Chapter 38</b>            <b>Pages 654-677</b>  Antiviral agents</li> <li>• <b>Chapter 39</b>            <b>Pages 678-699</b>  Anti-tubercular agents</li> <li>• <b>Chapter 40</b>            <b>Pages 700-716</b>  Antifungal agents</li> <li>• <b>Chapter 43</b>            <b>Pages 727-744</b></li> <li>• <b>Pickar</b>  <b>Chapter 11</b>            <b>Pages 221-262</b></li> </ul>	<p><b>QUIZ #3 – CHAPTER 31</b></p> <p><b>Assignment due on Monday, May 1, 2006:</b>  Complete the e-learning activities listed on pages 345, 359, 379, &amp; 477. Print out the results of the online multiple questions and submit to Ms. Rivera-Mitu on the due date.</p>

**Compton Community College  
Division of Human Services  
Associate Nursing Degree Program  
NDEG 26A – Pharmacology I**

<p><b>WEEK 7</b> <b>Monday, May 8, 2006</b></p> <p><b>Read:</b> <b>Lilley, Harrington &amp; Snyder</b> <b>Chapter 24                   Pages 395-421</b> Antihypertensive agents <b>Chapter 25                   Pages 422-436</b> Diuretics <b>Chapter 26                   Pages 437-452</b> Fluids and Electrolytes</p>	<p style="text-align: center;"><b>GROUP PRESENTATIONS DUE</b></p> <p><b>Assignment due on May 8, 2006.</b> Complete the e-learning activities listed on pages 395, 422, &amp; 437. Print out the results of the online multiple questions and submit to Ms. Rivera-Mitu on the due date.</p> <p><b>Independent Media Lab Assignment: Learning System RN</b></p> <ul style="list-style-type: none"> <li>• <b>Pharmacology-</b> Exam 1 - Fluid/Electrolyte balance agents; IV therapy</li> </ul>
<p><b>WEEK 8</b> <b>Monday, May 15, 2006</b></p> <p><b>Read:</b> <b>Lilley, Harrington &amp; Snyder</b></p> <ul style="list-style-type: none"> <li>• <b>Chapter 49                   Pages 841-856</b> Acid-controlling agents</li> <li>• <b>Chapter 50                   Pages 857-871</b> Antidiarrheal and laxatives</li> <li>• <b>Chapter 51                   Pages 872-882</b> Antiemetics and antinausea</li> </ul>	<p style="text-align: center;"><b>GROUP PRESENTATIONS DUE</b></p> <p><b>Assignment due on May 22, 2006.</b> Complete the e-learning activities listed on pages 841, 857, &amp; 872. Print out the results of the online multiple questions and submit to Ms. Rivera-Mitu on the due date.</p> <p><b>Independent Media Lab Assignment: Due May 15, 2006 Learning System RN</b></p> <ul style="list-style-type: none"> <li>• <b>Pharmacology – Exam 2 –</b> Genitourinary, Gastrointestinal, Cardiovascular</li> </ul>
<p><b>Week 9</b> <b>Monday, May 22, 2006</b></p>	<p style="text-align: center;"><b><u>LEARNING SYSTEM-RN PHARMACOLOGY COMPREHENSIVE EXAMINATION – Exam will consists of topics that were tested on the Learning System from Weeks 1-8</u></b></p> <p style="text-align: center;"><b><u>FINAL EXAMINATION – COMPREHENSIVE - Exam will consist of material presented from Weeks 5-8</u></b></p>