Syllabus for Pharmacology

The following syllabus outlines the required course of study. There will be 30 assigned chapters (in some chapters, certain sections are optional; please consult the detailed syllabus) and four additional chapters of your choice to be covered in the “Basic Pharmacology for Nurses” text. The assigned corresponding info in the supplementary text is in italics at the end of each Basic chapter description; try to answer the chapter-end questions in the “Incredibly Easy” book without looking at the answers provided. This material will be helpful for your understanding of drug actions and interactions. In addition, you may consult a drug handbook, such as Davis or Springhouse, for details of how particular drugs are prepared and given, cautions re: interactions, etc.

For each Basic chapter covered, please complete and submit the Math Review and Content Review Questions at the end of each chapter, via e-mail, to p.ramey@pcc.edu

You must complete and submit all assignments to be eligible for the final exam. Please do not fall behind, as the material builds in volume through the middle of the course and it will quickly become difficult to do more than one week’s assignment in the course of one week’s time. The final exam will be e-mailed to you at the beginning of Week 10 and must be submitted for grading by e-mail by March 20, 2008.

You must submit all work and questions by e-mail. No hard copy material will be accepted. At the head of each assignment, type your full name, the date, and chapter numbers. Work containing only your e-mail address will be returned to you ungraded.

The following is the weekly assignment sequence for the chapters.

- **Week 1**  Chapters 1, 2, 4, 6
- **Week 2**  Chapters 7, 8, 9
- **Week 3**  Chapters 10, 11, 12
- **Week 4**  Chapters 13, 14, 16, 20
- **Week 5**  Chapters 21, 22, 23, 25, 27
- **Week 6**  Chapters 29, 30, 31
- **Week 7**  Chapters 34, 36, 38, 45
- **Week 8**  Chapters 46 and two chapters of your choice as outlined below
- **Week 9**  Chapters 44, 47, 48 and two chapters of your choice
- **Week 10**  FINAL EXAM

My “office hours” during which I will download completed work and answer questions, will be Tuesday and Friday between 10 a.m. and 12 noon. I will pick up and answer questions during those times. I will make additional times available during the week in which you are working on the Final Exam, and let you know those in early March.

Welcome to the course!

P. Anne Ramey, RN, MN
Pharmacology

Supplementary text: *Clinical Pharmacology Made Incredibly Easy* by Lippincott, Williams, and Wilkins, 2nd Edition.

Read all areas marked **REQUIRED** in the text. Then do the assigned Content Review Questions and Math Review Questions at the end of the chapter; if no details are provided, **ALL** the questions are assigned; submit via e-mail as instructed above. The chapters marked **YOUR CHOICE** are those to be covered in weeks 9 and 10. Choose four, based on your area of specialty or where you wish to develop expertise.

The page numbers to cover in the supplementary text will be in italics following the corresponding assignment in the main text. These are very helpful for comprehension of complex pharmacokinetic concepts in regard to drug actions and interactions.

**REQUIRED:** Drug Classifications – inside cover, 2 pages

### Part 1: Foundations of Pharmacology

**REQUIRED:** Chapter 1 – Definition, Names, Standards and Information Sources (pertaining to US only): Pages 1-14
- Definitions 1
- Drug Names (US) 1
- Sources of Drug Standards (US) 2
- Sources of Drug Information (US) 3-7
- Sources of Patient Information 9
- Drug Legislation (US) 9-11
- New Drug Development 12-14

*** Content Review Questions *** 15

**REQUIRED:** Chapter 2 – Principles of Drug Action and Drug Interactions: Pages 16-23
- Basic Principles 16-18
- Drug Action 19-20
- Variable Factors Influencing Drug Action 20-21
- Drug Interactions 21-23

*** Content Review Questions *** 24

*Chapter 1, pages 1-20*

**For your own interest:** Chapter 3 – Drug Action Across the Life Span

**REQUIRED:** Chapter 4 – The Nursing Process and Pharmacology: Pages 36-56
- The Nursing Process 36-46
- Assessment 38
- Nursing Diagnosis 39-41
### Part 2: Medication Administration and Math Review

#### Chapter 6 – A Review of Arithmetic:  Pages 67-83

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<th>Type</th>
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<td>Systems of Weight and Measures</td>
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<td>Calculation of Intravenous Fluid and Medication Administration Rates</td>
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<tr>
<td>Fahrenheit and Centigrade (Celsius) Temperatures</td>
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*** For this chapter, ALL questions for each of the required sections are to be submitted as your assigned work.***

#### Required: Chapter 7 – Principles of Medication Administration: Pages 85-108

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<td>The Drug Order</td>
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<td>Medication Errors</td>
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<td>The Six Rights of Drug Administration</td>
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#### Chapter 8 – Percutaneous Administration:  Pages 110-128

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<tr>
<td>Administration of Creams, Lotions, and Ointments</td>
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<tr>
<td>Patch Testing for Allergens</td>
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<tr>
<td>Optional:</td>
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<tr>
<td>Administration of Nitroglycerin Ointment</td>
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<td>Required:</td>
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<tr>
<td>Administration of Transdermal Drug Delivery Systems</td>
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REQUIRED: Administration of Medications to Mucous Membranes 118-128
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REQUIRED: Chapter 9 – Enteral Administration: Pages 130-144
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REQUIRED: Chapter 10 – Parenteral Administration: Safe Preparation of Parenteral Medications: Pages 145-162
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Preparation of Parenteral Medication 155-162
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REQUIRED: Chapter 11 – Parenteral Administration: Intradermal, Subcutaneous, And Intramuscular Routes: Pages 163-174
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REQUIRED: Chapter 12 – Parenteral Administration: Intravenous Route: Pages 175-205
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Basic Guidelines of Intravenous Administration of Medicines 188-200
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Alpha- and Beta-Adrenergic Blocking Agents 212-214
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REQUIRED: Chapter 14 – Sedative-Hypnotics:
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REQUIRED: Chapter 16 – Drugs Used for Anxiety Disorders:
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Drug Therapy for Anxiety Disorders 252-256
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Azaspirones 258
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REQUIRED: Chapter 20 – Drugs Used for Pain Management
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REQUIRED: Chapter 22 – Drugs Used to Treat Dyslipidemias: Pages 352-362
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Treatment of Hyperlipidemias 353
Drug Therapy for Hyperlipidemias 353-356
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REQUIRED: Chapter 25 – Drugs Used to Treat Angina Pectoris: Pages 408-418
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  Treatment of Upper Respiratory Diseases 482-484
  Drug Class: Sympathomimetic Decongestants 484-486
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Treatment of Lower Respiratory Diseases 495-498
Drug Therapy for Lower Respiratory Diseases 449-503
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REQUIRED: Chapter 44 – Drugs Affecting Neoplasms Pages 714-733
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Drug Therapy for Cancer 716-729
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REQUIRED: Chapter 46 – Antimicrobial Agents  Pages 745-802
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REQUIRED: Chapter 48 – Herbal and Dietary Supplement Therapy:  Pages 828-843
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- Parkinson’s Disease: Pages 231-232
- Drug Therapy for Parkinson’s Disease: Pages 232-236
- Drug Class: Dopamine Agonists Pages 236-245
  - COMT Inhibitor Pages 245-246
  - Anticholinergic Agents Pages 246-248
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**YOUR CHOICE:** Chapter 17 – Drugs Used for Mood Disorders:
- Mood Disorders: Pages 262-264
- Treatment of Mood Disorders: Pages 264
- Drug Therapy for Mood Disorders: Pages 264-268
- Drug Class: Monoamine Oxidase Inhibitors Pages 268-272
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  - Tricyclic Antidepressants Pages 273-275
  - Miscellaneous Agents Pages 275-280
  - Antimanic Agents Pages 280-282
- *** Math Review Questions ***: Pages 282
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**YOUR CHOICE:** Chapter 18 – Drugs Used for Psychoses:
- Psychosis: Pages 284
- Treatment of Psychosis: Pages 285
- Drug Therapy for Psychosis: Pages 285-287
- Adverse Effects of Antipsychotic Drug Therapy: Pages 287-289
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- *** Math Review Questions ***: Pages 295
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**YOUR CHOICE:** Chapter 19 – Drugs Used for Seizure Disorders:
- Seizure Disorders: Pages 296
- Descriptions of Seizures: Pages 297
- Anticonvulsant Therapy: Pages 297-300
- Drug Therapy for Seizure Disorders: Pages 300
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YOUR CHOICE: Chapter 32 – Drugs Used to Treat Oral Disorders: Pages 520-526
Mouth Disorders 520-521
Drug Therapy for Mouth Disorders 522-525
YOUR CHOICE: Chapter 33 – Drugs Used to Treat Gastroesophageal Reflux and Peptic Ulcer Diseases

Physiology of the Stomach
Common Stomach Disorders
Treatment of Gastroesophageal Reflux and Peptic Ulcer Diseases
Drug Therapy for Gastroesophageal Reflux and Peptic Ulcer Diseases

Drug Class: Antacids
Histamine (H2)-Receptor Antagonists
Gastrointestinal Prostaglandins
Proton Pump Inhibitors
Coating Agents
Prokinetic Agents
Antispasmodic Agents

YOUR CHOICE: Chapter 35 – Drugs Used to Treat Constipation and Diarrhea

Constipation
Diarrhea
Treatment of Altered Elimination
Drug Class: Laxatives
Antidiarrheal Agents

YOUR CHOICE: Chapter 37 – Drugs Used to Treat Thyroid Disease

Thyroid Gland
Thyroid Diseases
Treatment of Thyroid Diseases
Drug Therapy for Thyroid Diseases
Thyroid Replacement Hormones
Antithyroid Medicines

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WOW, you made it through all this material! Give yourself a big hand and do something nice for yourself once you submit your final exam!!!