Course Description:

This course provides a review of pharmacology and other related areas of patient drug therapy and interaction. Therapeutic categories of drugs included. Designed for the RN/LPN re-entering the nursing field or other health care professionals with an interest in acquiring a current overview of pharmacology.

CEU: 9971

Required text as of Spring 2005:
(May order Books on line through PCC, also available at any book store as well as OHSU book store)

- Basic Pharmacology for Nurses, Clayton & Stock, 13th Ed.
- Lippincott Williams and Wilkins, Clinical Pharmacology made Incredibly Easy!, 2nd Ed.
- Davis’s Drug Guide For Nurses, Deglin & Vallerand, 9th Ed.

Recommended Drug ID website: www.drugs.com

Course Requirements:

1. Required Reading Assignments on Syllabus
2. Required Assignments: **Math Review, **Critical Thinking, **Review Questions for each section marked **REQUIRED
3. 8 Chapters marked **OPTIONAL:
   As well as the **Math Review, **Critical Thinking, and **Review Questions for each of the Chapters that you choose.
The following Syllabus completely outlines the main text “Basic Pharmacology for Nurses, with the supporting chapters from Clinical Pharmacology. You may choose to read both texts in their entirety. But only the 22 Chapters and sections marked **REQUIRED** must be read with any **Math Review** Critical Thinking Exercises**Review Questions completed and submitted by email to: linda.schneider@pcc.edu. These **REQUIRED** sections must be completed and submitted before any work will be evaluated from your personally chosen sections. A total of 8 **OPTIONAL** chapters in Unit II, that are not designated as **REQUIRED**, must be chosen to be read in addition. The ending exercises must also be completed and submitted to be eligible to take the final exam.

You must submit all work and questions by email, hard copy material will not be accepted, and neither will it be returned. Your emailed information must always contain your full name date and chapter assignment. Work containing only your email address will be returned to you without evaluation. Assignments are available on “My Web Site”.

The following is the weekly assignment of the **REQUIRED** Chapters/sections:

- Week 1.....Chapters ...1, 2, 4, 6 completed
- Week 2.....Chapters ...7, 8, 9 completed
- Week 3.....Chapters ...10, 11, 12 completed
- Week 4.....Chapters ...13, 20, 27 completed
- Week 5.....Chapters ...28, 29, 30 completed
- Week 6.....Chapters ...35, 37, 43 completed
- Week 7.....Chapters ...44, 45, 46 completed
- Week 8.....Chapters...Four **OPTIONAL** completed
- Week 9.....Chapters...Four **OPTIONAL** completed
- Week 10...............  Final Exam completed
Anything submitted between days that I am available will be evaluated on my next work day. Do to my limited working hours, I cannot answer your emails immediately. I will however, answer them ASAP and I will also make appointments to communicate with you either on phone or email.
Pharmacology

Texts: Basic Pharmacology for Nurses Clinical Pharmacology made Incredibly Easy (in parentheses)

Read all areas marked REQUIRED in Basic Pharmacology for Nurses, along with corresponding pages in Clinical Pharmacology Made Incredibly Easy – other areas are optional.
** Designates assignments for each chapter, you must complete all ** assignments in the chapters with required reading as well as the optional chapters.

REQUIRED: Drug Classifications – inside cover

UNIT 1 Foundations of Pharmacology

REQUIRED: Chapter 1 - Definition, Names, Standards and Information Sources
(Pertaining to US only)
Pages 1 – 13
Definitions 1
Drug Names (US) 1
Sources of Drug Standards US 2
Sources of Drug Information US 3 – 6
Sources of Patient Information 7
Drug Legislation US 8 – 9
New Drug Development 10-12
**Critical Thinking Exercises 13
**Review Questions 13

REQUIRED: Chapter 2 – Principles of Drug Action and Drug Interactions
Pages 14 – 21 (Chapter 1, pages 1 – 20)
Basic Principles 14 – 16
Drug Action 17
Variable Factors Influencing Drug Action 18
Drug Interactions 19 – 20
**Critical Thinking Exercises 20
**Review Questions 21

For your own interest
Chapter 3 – Drug Action Across the Life Span
REQUIRED: Chapter 4 – The Nursing Process and Pharmacology
   Pages 31 – 50
   The Nursing Process 31 – 40
      Assessment 33
      Nursing Diagnosis 34
      Planning 38
      Nursing Intervention 40
      Evaluation and Recording Therapeutic and Expected Outcomes 40
   Relating the Nursing Process to Pharmacology 41 - 49
      Nursing Diagnosis 41
      Planning 42
      Nursing Intervention or Implementation 42 – 43
      Evaluation Therapeutic Outcomes 53 – 49
   **Critical Thinking 50
   **Review Question 50

For your own interest
   Chapter 5 – Patient Education and Health Promotion
   Pages 51 – 58
   The Three Domains of Learning 51 – 55
   Patient Education Associated with Medication Therapy 55 – 58
   **Critical Thinking 58
   **Review Questions 58

UNIT 2 Illustrated Atlas of Medication Administration and Math Review
Read all areas/chapters REQUIRED. Choose 8 other chapters not marked REQUIRED that interest you or are in your chosen field.

Chapter 6 – A Review of Arithmetic
**Try Several Questions in each this section to check for your weak areas – if you find them difficult; review the section, do questions for the section then proceed to the questions in the next section. If you know that you are weak in an area review that entire area. Only calculation of IV fluids section is REQUIRED in this section.**

Pages 59 – 77

OPTIONAL: Roman Numerals 59
OPTIONAL: Fractions 59 – 63
OPTIONAL: Decimal Fractions 64 – 65
OPTIONAL: Percents 65 – 67
OPTIONAL: Ratios 66 – 67
OPTIONAL: Systems of Weight and Measures 67 – 73

REQUIRED section Calculation of Intravenous Fluid and Medication Administration Rates 66 – 67

OPTIONAL: Fahrenheit and Centigrade (Celsius) Temperatures 76 – 77

REQUIRED **Critical Thinking 77**

REQUIRED: Chapter 7 – Principles of Medication Administration
Pages 78 – 99
Legal and Ethical Considerations 78
Patient Charts 79 – 89
Drug Distribution Systems 89 – 93
The Drug Order 93
Medication Errors 93 – 94
The Six Rights of Drug Administration 95 – 98
**Critical Thinking 98**
**Review Question 98 – 99**

REQUIRED: Chapter 8 Percutaneous Administration
(*Except for those Pages 100 – 117 Areas marked OPTIONAL)

REQUIRED Administration of Creams, Lotions, and Ointments 100 – 101
OPTIONAL: Patch Testing for Allergens 101 – 103
OPTIONAL: Administration of Nitroglycerin Ointment 103 – 105
REQUIRED Administration of Transdermal Drug Delivery Systems 105 – 106
OPTIONAL:  Administration of Topical Powders  106

REQUIRED  Administration of Medications to Mucous Membranes  107 – 116

REQUIRED  **Critical Thinking #2 & 3

REQUIRED  **Review Questions #2 & 3

REQUIRED:  Chapter 9 Enteral Administration
Pages 118 – 131
Administration of Oral Medications  118 – 120
Administration of Solid-form Oral Medications  121 – 122
Administration of Liquid-form Oral Medications  123 – 125
Administration of Medications by Naso-Gastric Tube  125 – 126
Administration of Enteral Feedings via Gastrostomy Tube or Jejunostomy  126 – 128
Administration of Rectal Suppository  128 – 129
Administration of Disposable Enema  130 – 131
**Critical Thinking  131
**Review Questions  131

REQUIRED:  Chapter 10 Parenteral Administration: Preparation of Parenteral Medications
Pages 132 – 148
Safe Preparation, Administration, and Disposal of Parenteral Medications and Supplies  132
Equipment used in Parenteral Administration  132 – 141
Preparation of Parenteral Medications  142 – 148
**Critical Thinking 148
**Review Questions 148

REQUIRED:  Chapter 11 Parenteral Administration: Intradermal, Subcutaneous, and Intramuscular Routes
Pages 149 – 159
Administration of Medication by the Intradermal Route  149 – 151
Administration of Medication by the Subcutaneous Route  151 – 152
Administration of Medications by the Intramuscular Route  153 – 159
**Critical Thinking 159
**Review Questions 159

REQUIRED:  Chapter 12 Parenteral Administration: Intravenous Route
Pages 160 – 188
Intravenous Therapy  160
Equipment Used for Intravenous Therapy  160 – 165
Intravenous Dose Forms  165 – 168
Administration of Medications by the Intravenous Route  168 – 172
Basic Guidelines of Intravenous Administration of Medications  172 – 183
Monitoring Intravenous Therapy  183 – 187
**Critical Thinking  188
**Review Questions  188

REQUIRED:  Chapter 13 Drugs Affecting the Autonomic Nervous System
Pages 189 – 198  (Ch 2, pages 21-48)

The Central and Autonomic Nervous System  189 – 191
Autonomic Nervous System  190 – 191

**DRUG CLASS:**
Adrenergic Agents 191 – 193
Alpha and Beta – Adrenergic Blocking Agents 193 – 195
Cholinergic Agents 195 – 196
Anticholinergic Agents 196 – 197

**Math Review**
**Critical Thinking**
**Review Questions**

OPTIONAL:  Chapter 14 Sedative – Hypnotics
Pages 199 – 208  (Ch 3, pages 49-62, 68-90)

Sleep and Sleep Pattern Disturbance  199
Sedative – Hypnotic Therapy  200 – 201
Drug Therapy for Sleep Disturbance

**DRUG CLASS:**
Barbiturates 201 – 204
Benzodiazepines 204 – 206
Nonbarbiturate, Nonbenzodiazepine, Sedative – Hypnotic Agents 206 – 207

**Math Review  208
**Critical Thinking  208
**Review Questions  208

OPTIONAL:  Chapter 15 Drugs Used for Parkinson’s Disease
Pages 209 – 224  (Ch 3, pages 62-68)

Parkinson’s Disease  209
Drug Therapy for Parkinson’s Disease 210 – 213

**DRUG CLASS:**
- Dopamine Agonists 213 – 220
- COMT Inhibitor 220 – 221
- Anticholinergic Agents 221 – 222
- Miscellaneous Antiparkinsonian Agents 223

**Math Review 224**
**Critical Thinking 224**
**Review Questions 224**

**OPTIONAL:** Chapter 16 Drugs Used for Anxiety Disorders
Pages 225 – 234 (Ch 11, pages 291-297, 300-301)

Anxiety Disorders 225 – 226
Drug Therapy for Anxiety Disorders 226 – 229

**DRUG CLASS:**
- Benzodiazepines 229 – 231
- Azaspirones 231
- Sedative Serotonin Reuptake Inhibitors 231
- Miscellaneous Antianxiety Agents 232 – 233

**Math Review 233**
**Critical Thinking 234**
**Review Questions**

**OPTIONAL:** Chapter 17 Drugs Used for Mood Disorders
Pages 235 – 253 (Ch 11, pages 301-312)

Mood Disorders 235 – 237
Drug Therapy for Mood Disorders 237 – 240
Drug Therapy for Depression 240

**DRUG CLASS:**
- Monoamine Oxidase Inhibitors 240 – 242
- Selective Serotonin Reuptake Inhibitors 242 – 244
- Tricyclic Antidepressants 244 – 246
- Miscellaneous Agents 246 – 250
- Antimanic Agents 250 – 252

**Math Review**
**Critical Thinking 252**
**Review Questions 253**

**OPTIONAL:** Chapter 18 Drugs used for Psychoses
Pages 254 – 263 (Ch 11, 312-320)

Psychosis 254 – 255
Drug Therapy for Psychosis  255 – 260

**DRUG CLASS:**
- Antipsychotic Agents  260 – 262

**Math Review  262**
**Critical Thinking  263**
**Review Questions  263**

**OPTIONAL:**  Chapter 19 Drugs Used for Seizure Disorders
Pages 264 – 281   (Ch 11, 298-300)

Seizure Disorders  264 – 265
Anticonvulsant Therapy  266
Drug Therapy for Seizure Disorder  268

**DRUG CLASS:**
- Barbiturates  268
- Benzodiazepines  268 – 271
- Hydantoins  271 – 272
- Succinimides  272 – 273
- Miscellaneous Anticonvulsants  273 – 281

**Math Review  281**
**Critical Thinking  281**
**Review Question  281**

**REQUIRED:**  Chapter 20 Drugs Used for Pain Management
Pages 282 – 307   (Ch 4, 91-113)

Pain  282
Pain Management  282 – 291

**DRUG CLASS:**
- Opiate Agonists  292 – 294
- Opiate Partial Agonists  294 – 296
- Opiate Antagonists  296 – 298
- Salicylates  299 – 302
- NSAID’s  303 – 304
- Miscellaneous Analgesics  304 – 306

**Math Review  306**
**Critical Thinking  306**
**Review Questions  307**

**OPTIONAL:**  Chapter 21 Drugs Used to Treat Hyperlipidemias
Pages 308 – 316   (Ch 5, pages 147-150)
Atherosclerosis 308
Treatment of Hyperlipidemias 308–311

**DRUG CLASS:**
- Bile Acid – Binding Resins 311–312
- Niacin 312
- HMG – CoA 313–314
- Fibric Acids 314
- Miscellaneous Antilipemic Agent 314–315

**Math Review 316**
**Critical Thinking 316**
**Review Questions 316**

**OPTIONAL:** Chapter 22 Drugs Used to Treat Hypertension
Pages 317–340 (Ch 5, pages 132-147)

Hypertension 317–320
Drug Therapy for Hypertension 320–324

**DRUG CLASS:**
- Diuretics 324
- Beta-Adrenergic Blocking Agents 325
- Angiotensin-Converting Enzyme Inhibitors 326–328
- Angiotensin II Receptor Blockers 328–329
- Aldosterone Receptor Antagonist 329–331
- Calcium Ion Antagonists 331–332
- Alpha-1 Adrenergic Blocking Agents 332–334
- Central-Acting Alpha-2 Agonists 334–335
- Peripheral-Acting Adrenergic Antagonists 335–337
- Direct Vasodilators 337–339

**Math Review 339**
**Critical Thinking 340**
**Review Questions 340**

**OPTIONAL:** Chapter 23 Drugs Used to Treat Heart Failure
Pages 341–351 (Ch 5, pages 113-118)

Heart Failure 341–342
Drug therapy for Heart Failure 342–345

**DRUG CLASS:**
- Digitalis Glycosides 345–348
- Phosphodiesterase Inhibitors 348–350
- Natriuretic Peptides 350–351

**Math Review 351**
**Critical Thinking 351**
**Review Questions 351**
OPTIONAL: Chapter 24 Drugs Used to Treat Arrhythmias
Pages 352 – 367 (Ch 5, pages 119-128)

Arrhythmias 352 – 353
Drug Therapy for Arrhythmias 353 – 355

DRUG CLASS:
- Antiarrhythmic Agents 355 357
- Beta-Adrenergic Blocking Agents 357 – 366

**Math Review 367
**Critical Thinking 367
**Review Questions 367

OPTIONAL: Chapter 25 Drugs Used to Treat Angina Pectoris
Pages 368 – 376 (Ch 5, pages 129-135)

Angina Pectoris 368
Drug Therapy for Angina Pectoris 369 - 371

DRUG CLASS:
- Nitrates 371 – 373
- Beta-Adrenergic Blocking Agents 373 -374
- Calcium Ion Antagonists 374 – 375

**Math Review 376
**Critical Thinking 376
**Review Questions 376

OPTIONAL: Chapter 26 Drugs Used to Treat Peripheral Vascular Disease
Pages 377 - 385
Peripheral Vascular Disease 377 – 378
Drug Therapy for Peripheral Vascular Disease 378 - 380

DRUG CLASS:
- Hemorrheologic Agent 380 – 383
- Platelet Aggregation Inhibitor 383 -384

**Math Review 385
**Critical Thinking 385
**Review Questions 385

REQUIRED: Chapter 27 Drugs Used for Diuresis
Pages 386 – 400 (Ch 5, pages 142-147)

Drug Therapy with Diuretics 386 – 389

DRUG CLASS:
- Carbonic Anhydrase Inhibitor 389
- Methylxanthines 389
- Loop Diuretics 391 – 397
- Potassium-Sparing Diuretics 397 – 400

**Math Review 400
**Critical Thinking 400**  
**Review Questions 400**

**REQUIRED:** Chapter 28 Drugs Used to Treat Thromboembolic Disorders  
Pages 401 – 415  
(Ch 6, 161-173)

Thromboembolic Diseases 401 - 402  
Drug Therapy for Thromboembolic Diseases 402 – 404  
**DRUG CLASS:**  
Platelet Inhibitors 404 - 408  
Anticoagulants 408 – 414  
**Math Review 415**  
**Critical Thinking 415**  
**Review Questions 415**

**REQUIRED:** Chapter 29 Drugs Used to Treat Upper Respiratory Disease  
Pages 416 - 425  
(Ch 7, pages 190-193 & Ch 10, pages 275-279)

Upper Respiratory Tract Anatomy and Physiology 416  
Common Upper Respiratory Diseases 417 – 420  
**DRUG CLASS:**  
Sympathomimetic Decongestants 420 – 421  
Antihistamines 421 – 422  
Respiratory Antiinflammatory Agents 422 – 424  
**Critical Thinking 424 - 425**  
**Review Questions 425**

**REQUIRED:** Chapter 30 Drugs Used to Treat lower Respiratory Disease  
Pages 426 – 451  
(Ch 7, pages 175-190 & Ch 10, pages 279-287)

Lower Respiratory Tract Anatomy and Physiology  426 – 427  
Common Lower Respiratory Diseases 428 -432  
Drug Therapy for Lower Respiratory Diseases 432 – 436  
**DRUG CLASS:**  
Expectorants 436 – 438  
Antitussive Agents 439  
Mucolytic Agents 439 – 442  
Anticholinergic Bronchodilating Agents 442 – 443  
Respiratory Antiinflammatory Agents 443 – 445  
Antileukotriene Agents 445 – 446  
Immunomodulator Agent 447  
Miscellaneous Antiinflammatory Agents 448 – 449  
**Math Review 450**  
**Critical Thinking 450**  
**Review Questions 451**
OPTIONAL: Chapter 31 Drugs Used to Treat Oral Disorders
Pages 452 – 457
Mouth Disorders 452 – 453
Drug Therapy for Mouth Disorders 453 – 456
**DRUG CLASS:**
- Dentrifrices 456
- Mouthwashes 456 – 457
**Critical Thinking 457
**Review Questions 457

OPTIONAL: Chapter 32 Drugs Used to Treat Gastroesophageal Reflux and Peptic Ulcer Disease (Ch 8, pages 195-205)
Pages 458 – 471
Physiology of the stomach 458 – 459
Drug Therapy for Gastroesophageal Reflux and Peptic Ulcer Disease 459 – 461
**DRUG CLASS:**
- Antacids 461 – 463
- Histamine (H2) Receptor Antagonists 463 – 465
- Gastrointestinal Prostaglandins 465
- Gastric Acid Pump Inhibitors 466
- Coating Agents 467
- Prokinetic Agents 467 – 469
- Antispasmodic Agents 469 – 470
**Math Review 471
**Critical Thinking 471
**Review Questions 471

OPTIONAL: Chapter 33 Drugs Used to Treat Nausea and Vomiting
Pages 472 – 484 (Ch 8, pages 214-218)
Nausea and Vomiting 472 – 474
Drug Therapy for Selected Causes of Nausea and Vomiting 474 – 476
**DRUG CLASS:**
- Dopamine Antagonists 476 – 477
- Serotonin Antagonists 477
- Anticholinergic Agents 477 – 482
- Corticosteroids 482 – 483
- Cannabinoids 483
**Math Review 484
**Critical Thinking 484
**Review Questions 484
OPTIONAL: Chapter 34 Drugs Uses to Treat Constipation and Diarrhea  
Pages 485 – 492  
(Ch 8, pages 205-214)  
Constipation/Diarrhea  485 – 486  
Treatment of Altered Elimination  486 – 488  
**Critical Thinking  492  
**Review Questions  492

REQUIRED: Chapter 35 Drugs Used to Treat Diabetes Mellitus  
Pages 493 – 515  
(Ch 12, pages 321-328)  
Diabetes Mellitus  493 – 494  
Drug Therapy for Diabetes Mellitus  495 – 503  
**Math Review  515  
**Critical Thinking  515  
**Review Questions  515

OPTIONAL: Chapter 36 Drugs Used to Treat Thyroid Disease  
Pages 516 – 525  
(Ch 12, pages 334-338)  
Thyroid Gland  516 – 517  
Drug Therapy for Thyroid Diseases  517 – 519  
**Math Review  525  
**Critical Thinking  525  
**Review Questions  525

REQUIRED: Chapter 37 Corticosteroids  
Pages 526 – 533  
(Ch 10, pages 279-283)  
Corticosteroids  526 – 529
Drug Therapy with Corticosteroids 529

**DRUG CLASS:**
- Mineralocorticoids 529 – 530
- Glucocorticoids 530 -532

**Math Review 533**
**Critical Thinking 533**
**Review Questions 533**

**OPTIONAL:** Chapter 38 Gonadal Hormones
Pages 534 – 540  
(Ch 12, pages 329-330)

The Gonads and Gonadal Hormones 534 – 535
Drug Therapy with Gonadal Hormones 535 537

**DRUG CLASS:**
- Progestins 537
- Androgens 537 – 540

**Math Review 540**
**Critical Thinking 540**
**Review Questions 540**

**OPTIONAL:** Chapter 39 Drugs Used in Obstetrics
Pages 541 – 561

Obstetrics 541 – 549
Drug Therapy in Pregnancy 549

**DRUG CLASS:**
- Uterine Stimulants 549 – 554
- Uterine Relaxants 554 – 556
- Other Agents 556 – 559
- Neonatal Ophthalmic Solutions 559 – 560

**Math Review 561**
**Critical Thinking 561**
**Review Questions 561**

**OPTIONAL:** Chapter 40 Drugs Used in Men’s and Women’s Health
Pages 562 – 579

Drug Therapy for Leukorrhea and Genital Infections 562 – 567
Drug Therapy for Contraception 567

**DRUG CLASS:**
- Oral Contraceptives 567 – 571
- Transdermal Contraceptives 571 – 573
- Intravaginal Hormonal Contraceptive 573 -574

Drug Therapy for Benign Prostatic Hyperplasia (BPH) 574

**DRUG CLASS:**
- Alpha-1 Adrenergic Blocking Agents 575
- Antiandrogen Agents 576
- Phosphodiesterase Inhibitors 577 -578
OPTIONAL: Chapter 41 Drugs Used to Treat Disorders of the Urinary System
Page 580 – 590 (Ch 9, pages 239-244)

Urinary Tract Infections 580 – 583
Drug Therapy for Urinary Tract Infections 584

*DRUG CLASS:*
- Fosfomycin Antibiotics 584
- Quinolone Antibiotics 584 – 587
- Bladder-Active Drugs 587 -589

OPTIONAL: Chapter 42 Drugs Used to Treat Glaucoma and Other Eye Disorders
Page 591 – 608

Anatomy and Physiology of the Eye 591 -592
Glaucoma 592
Drug Therapy for Glaucoma 593 – 595

*DRUG CLASS:*
- Osmotic Agents 595 – 597
- Carbonic Anhydrase Inhibitors 598 – 599
- Cholinergic Agents 599
- Cholinesterase Inhibitors 599 – 601
- Adrenergic Agents 601
- Beta-Adrenergic Blocking Agents 602
- Prostaglandin Agonists 602 -603

Other Ophthalmic Agents

*DRUG CLASS:*
- Anticholinergic Agents 604
- Antifungal Agents 605 -606
- Antibacterial Agents 606
- Corticosteroids 606

Ophthalmic Antiinflammatory Agents 606
Antihistamines 607
Antiallergic Agents 607
REQUIRED: Chapter 43 Drugs Affecting Neoplasms
Page 609 – 623   (Ch 14, pages 353-392)
Cancer and the Use of Antineoplastic Agents  609
Drug Therapy for Cancer  610 -614
**DRUG CLASS:**
Alkylating Agents  614
Natural Products 614 – 620
Antineoplastic Antibiotics 620 – 621
Hormones 621
**Math Review 623
**Critical Thinking 623 - 624
**Review Questions 624

REQUIRED: Chapter 44 Drugs Used to Treat the Muscular System
Page 625 – 633   (Ch 3, pages 49-59)
Muscle Relaxants and Neuromuscular Blocking Agents  625 -628
Drug Therapy for Muscle Disorders 628
**DRUG CLASS:**
Centrally Acting Skeletal Muscle Relaxants 628 – 630
Direct-Acting Skeletal Muscle Relaxant 630
Neuromuscular Blacking Agents 631 – 632
**Math Review 633
**Critical Thinking 633
**Review Questions 633

REQUIRED: Chapter 45 Antimicrobial Agents
Page 634 – 678   (Ch 9, pages 221-240 & 259-273)
Antimicrobial Agents 634 – 638
Drug Therapy for Infectious Disease
**DRUG CLASS:**
Aminoglycosides 638 – 640
Carbapenems 641 – 642
Cephalosporins 642 – 645
Penicillins 645 - 646
Quinolones 646 – 650
Sulfonamides 650 – 651
Tetracyclines 651 – 652
Antitubercular Agents 652 – 655
Miscellaneous Antibiotics 655 – 659
Topical Antifungal Agents 659 – 662
Systemic Antifungal Agents 662 – 667
Antiviral Agents 667 – 676

**Math Review 677
**Critical Thinking 677 - 678
**Review Questions 678

Chapter 46 Nutrition
Page 679 - 700

**OPTIONAL:** Principles of Nutrition 679 – 680
**OPTIONAL:** Dietary Reference Intakes 681 – 691
**REQUIRED:** Malnutrition 691 – 699
  Therapy for Malnutrition 691 - 694
  Laboratory/Diagnostic Tests 692
  Monitoring Tube Feedings 693
  Monitoring Peripheral Parenteral Nutrition (PPN) 693
  Monitoring Total Parenteral Nutrition (TPN) 693 – 694
  Therapeutic Outcomes 694 – 697
  Side Effects to Report 697
  Parenteral Nutrition 697 – 698
  Therapeutic Outcomes 698

**Math Review 700
**Critical Thinking 700
**Review Questions 700

**OPTIONAL:** Chapter 47 Herbal and Dietary Supplement Therapy
Page 701 – 714
Herbal Medicines, Dietary Supplements, and Rational Therapy 701 - 703
Herbal Therapy 703 – 710
Other Dietary Supplements 710 – 713
**Critical Thinking 714
**Review Questions 714

**OPTIONAL:** Chapter 48 Substance Abuse
Page 715 – 730
Definitions of Substance Abuse 715
Substances of Abuse 715 -716
Theories on Why Substances are Abused 716
Signs of Impairment 716
Screening for Alcohol and Substance Abuse 717
Health Professionals and Substance Abuse 717 – 721
Principles of Treatment for Substance Abuse  721 – 729
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**Critical Thinking  730
**Review Questions  730

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Chapter 59 Miscellaneous Agents
Page 731 – 736

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