

**Department** : Office Systems Technology  
**Course Title** : Pharmacology  
**Section Name** : HITT 1349  
**Start Date** : 01/18/11  
**End Date** : 05/07/11  
**Modality** : WEB Instruction  
**Credits** : 3

## Instructor Information

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**Name** : Sandie Graves  
**OC Email** : sgraves@odessa.edu  
**OC Phone #** : 432-335-6426  
Office Hours: MW 8:00 am to 12:00 pm  
TTH 11:00 am-12:00 pm  
Friday by Appointment

Monitored and open labs available daily. Help from the instructor is available at your request (appointment can be setup or you may contact instructor during office hours). Tutoring is available through the LRC.

### Course Description

An overview of the basic concepts of the pharmacological treatment of various diseases affecting major body systems.

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### Prerequisites/Corequisites

None

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### Scans

1,2,3,4,5,6,8,9,11

### Course Objectives

1. Explain the drug standard (6)
2. Summarize the drug laws for consumer safety(7)
3. Summarize the provisions of the FDA(7)
4. Differentiate between the USP and the NF(7)
5. Define schedules of controlled substances(7)
6. Summarize the Controlled Substances Act of 1970(6)
7. State the responsibilities in the dispensing of medication(6)

8. Differentiate between drug name, generic name, trade name, official name and chemical name (7)
9. Define and explain the restrictions on classifications of drugs (7)
10. Identify the types of information listed on drug cards(6)
11. Identify the 4 sources of drugs (6)
12. List several variables that may affect the action of drugs (7)
13. Identify the different routes of drug administration (8)
14. Differentiate between the various oral drug forms(6)
15. Compare IV injections (7)
16. Explain the advantages of administering drugs via dermal patches (7)
17. Identify common abbreviations and symbols used for medication orders (1,6)
18. List the 6 parts of a medication order (1,6)
19. Interpret medical orders correctly (1,9)
20. Convert dosages from one system to the other (3)
21. Describe the responsibilities of the health care provider in safe administration of drugs (2,10)
22. List the 6 rights of Medication Administration (2,7)
23. Cite three instances of medication administration that require documentation(2,6)
24. Describe the advantages and disadvantages of GI route administration (7,11)
25. Describe the advantages and disadvantages of parenteral administration(7,11)
26. List five conditions in which an emetic would not be given to induce vomiting (6)
27. Identify four routes by which poisons may be taken into the body(7)
28. Describe appropriate therapy for poisoning (7)
29. Categorize vitamins as fat soluble or water soluble( 6)
30. Identify the chemical symbol for each mineral (6)
31. List minerals and their sources function and signs of deficiency (6)
32. Identify side effects of the six major categories of skin medications and contraindications (6)
33. Explain the factors that influence the absorption of skin medication (11,6)
34. Compare and contrast scabicides and pediculicides (6)
35. Compare and contrast the characteristics of the 4 categories of autonomic nervous system drugs (6)
36. Compare and contrast the characteristics of the four types of diuretics, side effects and cautions(6)
37. Identify examples of drugs from each of the 8 categories of gastrointestinal drugs (6)
38. Identify the side effects contraindications and interactions common to each category of anti-infective drugs(7)
39. Identify the side effects contraindications and interactions common to each category of ophthalmic medications (6,7)
40. Compare and contrast the characteristics of the major analgesics, sedatives, and hypnotics (6)
41. Compare and contrast the characteristics of the most commonly used psychotropic medications (6)
42. Compare and contrast the characteristics of musculoskeletal anti-inflammatory drugs (6)
43. Compare and contrast the different kinds of seizures (6)
44. List the most common names and uses and side effects of anticonvulsant, anti-Parkinsonian and Alzheimer's drugs (7)
45. Describe the drugs for treatment of Alzheimer's disease (6)
46. Describe at least 5 conditions that can be treated with corticosteroids (6)
47. Identify the hormones secreted by the pituitary, adrenal, thyroid and islets of Langerhans (6)
48. List at least four serious side effects of long-term steroid therapy (6)

49. Explain the side effects uses and effects of oral antidiabetic drugs (6)
50. Describe the side effects uses and dosages of antithyroid agents (6)
51. Identify the symptoms of hypoglycemia and hyperglycemia, and appropriate interventions (6)
52. Explain drug therapy for infertility and impotence (6)
53. Identify the uses, side effects and precautions for the androgens (6)
54. List the uses, side effects and contraindications for estrogen and progestins (6)
55. Compare and contrast contraceptives (7)
56. Describe the action and effects of digitalis (6)
57. Describe the action and effects of Hypertensive drugs (6)
58. Describe the action and effects of Coronary vasoconstrictors (6)
59. Describe the action and effects of Vasodilators (6)
60. Describe the action and effects of oxygen therapy (6)
61. Explain the purpose of carbon dioxide inhalations (6)
62. Classify a list of respiratory system drugs according to action (7)
63. List the uses, side effects and contraindications bronchodilators and antitussitives (6)
64. List at least 10 drugs that can cause mental problems in the elderly (6)
65. Describe the dangers with NSAID and GI drugs in the elderly (6)

\*INDICATES INTEGRATED, CORE CURRICULUMSKILLS  
(Math, Reading, Communication, Technological Literacy and/or Critical Thinking)

### Required Materials

Essentials of Pharmacology for Health Professionals 5<sup>th</sup> Ed  
Ruth Woodrow  
ISBN- 1-4018-8925-5

### Assignments:

<b>All quizzes, chapter tests and assignments are due by:</b>	<b>Unit Assigned</b>	<b>Description</b>
<b>1-30</b>	<b>1</b>	<b>Consumer Safety and Drug Regulations</b>  <b>Drug names and references</b>  <b>Sources and Bodily Effects of Drugs</b>
<b>2-9</b>	<b>2</b>	<b>Medication Preparations and Supplies</b>  <b>Abbreviations and systems of measurements</b>

<b>2-19</b>	<b>3</b>	<b>Responsibilities and Principles of Drug Administration</b>  <b>Administration by Gastrointestinal Route</b>  <b>Administration by the Parenteral Route</b>
<b>3-1</b>	<b>4</b>	<b>Poison Control</b>  <b>Vitamins, Minerals, and Herbs</b>  <b>Skin Medications</b>
<b>3-11</b>	<b>5</b>	<b>Autonomic Nervous System Drugs</b>  <b>Antineoplastic Drugs</b>
<b>3-24</b>	<b>6</b>	<b>Urinary System Drugs</b>  <b>Gastrointestinal Drugs</b>
<b>4-3</b>	<b>7</b>	<b>Anti-infective Drugs</b>  <b>Eye Medications</b>  <b>Analgesics, Sedatives and Hypnotics</b>
<b>4-13</b>	<b>8</b>	<b>Psychotropic Medications, Alcohol and Drug Abuse</b>  <b>Musculoskeletal and Anti-inflammatory Drugs</b>
<b>4-23</b>	<b>9</b>	<b>Endocrine System Drugs</b>  <b>Reproductive Drugs</b>  <b>Cardiovascular Drugs</b>
<b>5-7</b>	<b>10</b>	<b>Respiratory Drugs and Antihistamines</b>  <b>Drugs and Older Adults</b>
<b>5-9</b>	<b>FINAL</b>	

## Grading Policy

This class is based on a points system. Every assignment/test/review, etc. is “worth” a specified point value. The distribution of points is as follows:

3796-4218 = A (90% of available points)

3374-3795 =B (80% of available points)

2952-3373=C (70% of available points)

2530-2951 =D (60% of available points)

2529 and Below= F

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No late work is accepted. No makeup tests will be given.

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## Special Needs

Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

## Learning Resource Center (Library)

The Library, known as the [Learning Resources Center](#), provides research assistance via the [LRC's catalog \(print books, videos, e-books\)](#) and [databases \(journal and magazine articles\)](#). [Research guides](#) covering specific subject areas, [tutorials](#), and the "[Ask a Librarian](#)" service provide additional help.

## Student E-mail

Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All correspondence will be submitted using your Odessa College email.**

## Student Portal

Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All correspondence will be submitted using your Odessa College email.**

## Technical Support

For Blackboard username and password help and for help accessing your online course availability and student email account contact the Student Success Center at 432-335-6878 or online at [https://www.odessa.edu/dept/ssc/helpdesk\\_form.htm](https://www.odessa.edu/dept/ssc/helpdesk_form.htm).

## Important School Policies

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For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or student's and instructors' right to academic freedom can be found in the [Odessa College Student Handbook](#).

**Disclaimer**

**\*Students are responsible for checking for changes frequently as this syllabus may be updated often, as needed.**