



**Course Prefix/Number/Title:**

PHARM 215/15725/Introduction to Pharmacology

**Number of Credits:** 3

**Course Description:**

This course is designed to teach students the principles of pharmacology throughout the lifespan; including mathematics and calculations, rules and regulations governing medications, medical administration and safety issues. Medications specific to various diseases and disorders will be studied emphasizing desired effects, side effects and contraindications. The course is designed to meet the needs of nursing and non-nursing students.

**Pre-/Co-requisites:** None

**Course Objectives:**

1. Classify the sources of drugs, examine their pharmacokinetic processes, and analyze the variables that affect drug actions and effects.
2. Understand the principles of safe drug administration, calculations, and pharmacological considerations throughout the lifespan.
3. Apply the principles that support the moral, ethical, and legal responsibilities of the health care practitioner in administering medications safely and accurately.
4. Identify the actions and appropriate doses of commonly used medications for common diseases and disorders of each body system.
5. Identify drug interactions, side effects, adverse reactions, and contraindications of commonly used medications and appropriate interventions.
6. Interpret medication orders correctly, and state the proper procedures for documenting drug administration and for reporting medication errors.
7. Understand the laws governing drug administration and legal implications.

**Instructor:** Susan Indvik, MSN, RN

**Office:** Knudson Student Center # 12

**Office Hours:** Monday – Friday 10:00 – 11:45 & 1:00 - 4:00

**Phone:** (701)228-5460

**Email:** susan.e.indvik@dakotacollege.edu

**Lecture/Lab Schedule:** M,W,F 12-12:50pm Class attendance and participation is mandatory.

**Textbook(s):**

*Essentials of Pharmacology for Health Professions (8th edition)* by Ruth Woodrow, Bruce J. Colbert & Davide M. Smith. ISBN-13: 978-1-285-07788-8  
Study Guide to *Accompany Essentials of Pharmacology for Health Professions (8th edition)*

Students are also required to purchase a recent drug handbook. These are available at DCB bookstore.

**Course Requirements:**

1. Classify the sources of drugs, examine their pharmacokinetic processes, and analyze the variables that affect drug actions and effects.
2. Understand the principles of safe drug administration, calculations, and pharmacological considerations throughout the lifespan.
3. Apply the principles that support the moral, ethical, and legal responsibilities of the health care practitioner in administering medications safely and accurately.
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**Tentative Course Outline:**

(Subject to change at the instructor's discretion)

Week 1 - Chapter 1 & 2

Week 2 – Chapter 3 & 4

Week 3 – Chapter 5 & 6

Week 4 - Chapter 7 & 8

Week 5 – Chapter 9 & 10

Week 6 – Chapter 11 & 12

Week 7 – Chapter 13 & 14

Week 8 – Chapter 15 & 16

Week 9 – Chapter 17 & 18

Week 10 – Chapter 19 & 20

Week 11 – Chapter 20 & 21

Week 12 - Chapter 22 & 23

Week 13 – Chapter 24 & 25

Week 14 – Chapter 26 & 27

Week 15 – Review for Final

Week 16 – Final drug cards due and Final

- Consumer Safety and Drug Regulations

- Drug Names and References
- Sources and Bodily Effects of Drugs
- Medication Preparations and Supplies
- Abbreviations and Systems of Measurement
- Safe Dosage Calculations
- Responsibilities and Principles of Drug Administration
- Administration by the Gastrointestinal Route
- Administration by the Parenteral Route
- Poison Control
- Vitamins, Minerals, and Herbs
- Skin Medications
- Autonomic Nervous System Drugs
- Antineoplastic Drugs
- Urinary System Drugs
- Gastrointestinal Drugs
- Anti-infective Drugs
- Eye and Ear Medications
- Analgesics, Sedatives, and Hypnotics

Grading Scale:

- A (94% - 100%)
- B (85% - 93%)
- C (75% - 84%)
- D (65% - 74%)
- F (0% - 64%)

**General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s):**

None

**Relationship to Campus Focus:**

This course specifically relates to the *Technology* aspect of the campus' focus. Students will recognize how technology plays an important part in the healthcare arena, including the evolution of computerized systems to improve patient safety in the use of pharmacology and medication administration.

**Classroom Policies:**

1. Class attendance is mandatory. If possible, please let the instructor know 1 hour prior to the start of class if you will be missing a class.
2. Be respectful of other students. This course is offered over IVN so there are students from multiple classrooms.
3. Personally, complete all assignments, quizzes, and exams, no plagiarism will be allowed and 1<sup>st</sup> offense will result in a zero and second offense will result in a class failure.
4. Read all assigned textbook chapters PRIOR to class.

5. Come to class prepared.
6. No cell phone use during class time.
7. Test will not be returned but will be available upon request to discuss.

### **Student Email Policy:**

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

### **Academic Integrity:**

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

### **Disabilities or Special Needs:**

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

### **Title IX:**

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.