

EL CAMINO COLLEGE
COURSE OUTLINE OF RECORD

I. COURSE DESCRIPTION

Course Title and Number: Nursing 156

Descriptive Title: Advanced Nursing Pharmacology

Discipline: Nursing Division: Health Sciences and Athletics

Hours Lecture: 1 Hours Laboratory: Course Units: 1

Weeks: 18 X 9 6 Other

Grading Method: Letter X CR/NCR Both No Grade

Associate Degree Credit X Non-Degree Credit Non-Credit

Transfer CSU: No Yes X Effective Date: 11-19-01

Transfer UC: No X Yes UC Approval Date:

Pending:

Prerequisite, Corequisite, Recommended Preparation, Enrollment Limitation (Specify):

Prerequisite: Nursing 150, Nursing 151, and Nursing 152 with a minimum grade of C in prerequisite.

Catalog Description:

This course offers an in-depth study of clinical drug therapy. The knowledge and intervention needed to maximize therapeutic effects and prevent or minimize adverse effects of drugs will be emphasized. Major content areas will include advanced pharmacological principles; major drug classifications; selected individual drugs; drug effects on body tissues; human responses to drug therapy; and application of the nursing process. Anatomy, physiology, and microbiology concepts are correlated with various pathologies, emphasizing the effect(s) of drug therapy on body systems. Health teaching and legal and ethical issues are examined.

Originator: V.K. Townsend, S. Zareski Submittal Date: October, 2001

BOARD APPROVAL DATE: 11-19-01

Reviewed and/or Revised by:

K.Hellwig, S. Zareski Date: Spring 2005

 Date:

 Date:

II. COURSE OBJECTIVES AND METHODS OF EVALUATION

A. Course Objectives (List the major objectives stated as student outcomes in behaviorally measurable terms.)

1. Apply principles of pharmacology to drug therapy.
2. Apply a systematic approach when studying drug therapy, with emphasis on therapeutic classification and prototypical drugs.
3. Compare and contrast the characteristics of major drug groups and selected individual drugs as they correlate to various pathologies.
4. Analyze a client's response(s) to drug therapy.
5. Apply the nursing process to clients receiving one or more therapeutic drugs.
6. Apply principles of therapy with major drug groups in relation to drug selections, dosage, route and use in selected populations.
7. Analyze clinically significant drug-drug, drug dosage, and drug-nutrient interactions.
8. Analyze major issues and concerns in drug therapy.
9. Analyze legal, ethical, and economic aspects of drug therapy.
10. Evaluate the use and effects of alternative/complementary therapies.
11. Formulate teaching plans regarding the use of over-the-counter and prescription drugs.
12. Examine the nurse's role in relation to drug therapy and health teaching.

B. Methods of Evaluation - Associate Degree Credit Course

Students in this course will be graded, at minimum, in at least one of the following four categories. Please check the appropriate responses. The course

must have a minimum of one response in category 1, 2, or 3.

1. Substantial writing assignments, including:

- | | |
|--|---|
| <input checked="" type="checkbox"/> essay exam(s) | <input checked="" type="checkbox"/> reading report(s) |
| <input checked="" type="checkbox"/> written homework | <input type="checkbox"/> laboratory report(s) |
| <input type="checkbox"/> term or other paper(s) | <input type="checkbox"/> other (specify) |

Substantial writing assignments are inappropriate for this degree applicable course because:

- The course is primarily computational in nature
 The course primarily involves skill demonstrations or problem solving.

2. Computational or non-computational problem-solving demonstrations, including:

- | | |
|--|--|
| <input checked="" type="checkbox"/> exam | <input type="checkbox"/> homework problems |
| <input type="checkbox"/> laboratory reports(s) | <input type="checkbox"/> field work |
| <input checked="" type="checkbox"/> quizzes | <input type="checkbox"/> other (specify) |

3. Skill demonstrations, including:

- | | |
|--|--|
| <input checked="" type="checkbox"/> class performance(s) | <input type="checkbox"/> field work |
| <input checked="" type="checkbox"/> performance exam(s) | <input type="checkbox"/> other (specify) |

4. Objective examinations, including:

- | | |
|---|---|
| <input checked="" type="checkbox"/> multiple choice | <input checked="" type="checkbox"/> true/false |
| <input checked="" type="checkbox"/> completion | <input checked="" type="checkbox"/> other (specify) |
| <input checked="" type="checkbox"/> matching items | short answers |

C. Methods of Evaluation - Non-Degree Credit Course

Students will be graded, at minimum, in at least one of the following four categories. Please check the appropriate responses. The course must have a minimum of one response in category 1, 2, or 3.

1. Reading and writing assignments, including:

- | | |
|---|---|
| <input type="checkbox"/> essay exam(s) | <input type="checkbox"/> reading report(s) |
| <input type="checkbox"/> written homework | <input type="checkbox"/> laboratory report(s) |
| <input type="checkbox"/> term or other paper(s) | <input type="checkbox"/> other (specify) |

2. Computational or non-computational problem-solving demonstrations, including:

- | | |
|--|--|
| <input type="checkbox"/> exam | <input type="checkbox"/> homework problems |
| <input type="checkbox"/> laboratory reports(s) | <input type="checkbox"/> field work |
| <input type="checkbox"/> quizzes | <input type="checkbox"/> other (specify) |

3. Skill demonstrations, including:

- | | |
|---|--|
| <input type="checkbox"/> class performance(s) | <input type="checkbox"/> field work |
| <input type="checkbox"/> performance exam(s) | <input type="checkbox"/> other (specify) |

4. Objective examinations, including:

- | | |
|--|--|
| <input type="checkbox"/> multiple choice | <input type="checkbox"/> true/false |
| <input type="checkbox"/> completion | <input type="checkbox"/> other (specify) |
| <input type="checkbox"/> matching items | |

D. Methods of Evaluation - Non-Credit Course

Indicate methods used for determining whether stated objectives have been met.

III. OUTLINE OF SUBJECT MATTER

The outline of topics should be detailed enough to enable an instructor to determine the major areas of knowledge and activities that should be covered so that the course may have consistency from instructor to instructor and semester to semester.

Approximate Time (Allotted in Hours)	Major Topics
4 hours	Theory Application of the nursing process Nursing care plans and drug therapy Legal and ethical issues Nursing Practice Act Controlled substances and pain management Health teaching and drug therapy Mechanism(s) of actions Indications for use Therapeutic effects Common and serious adverse effects Accurate administration Essential client teaching Drug effects on various pathologies Hypertension, congestive heart failure coronary artery disease, diabetes mellitus, chronic obstructive pulmonary disease
12 hours	Drugs affecting the following: Central Nervous System Adrenalin, cholinergic agonists Endocrine System Insulin, oral hypoglycemic agents Respiratory System Theophylline, antitussives, decongestants Cardiovascular System Digitalis, antihypertensives, Gastrointestinal System Antacids, hydrogen receptors antagonists Antimicrobials Inflammatory response Laboratory values Intravenous administration Peak and troughs Alternative/complementary therapies Drug interactions and incompatibilities Oral Presentations
2 hours	Review Final examination

IV. READING AND WRITING ASSIGNMENTS OR, IF MORE APPROPRIATE, ASSIGNMENTS REQUIRING COMPUTATION, PROBLEM-SOLVING, OR SKILL DEMONSTRATION
Three hours of work per week, including class time, are required for each unit of credit.

A. Provide a representative example of an assignment.

In a two- to three-page paper, compare and contrast the pharmacological treatments appropriate to Type I and Type II diabetes. Outline the nurse's responsibilities in the administration of these medications for each of these conditions. Determine the expected outcomes and formulate a client health teaching plan.

B. Two hours work outside of class are required for each hour of lecture or equivalent. Each student in this course will be required to perform the following outside of regular class time:

- Study
- Answer questions
- Skill practice
- Required reading
- Problem solving activity or exercise
- Written work (essays/compositions/report/analysis/research)
- Journal (reaction and evaluation of class, done on a continuing basis throughout the semester)
- Observation of or participation in an activity related to course content (e.g. play, museum, concert, debate, meeting)
- Course is lab only - minimum required hours satisfied by scheduled lab time
- Other (specify)

V. COLLEGE-LEVEL CRITICAL THINKING ASSIGNMENTS

Cite a minimum of two specific assignments that demonstrate college-level critical thinking. (Required for degree applicable courses only.)

1. In a group, formulate a written teaching plan outlining the medications used to treat a client with an acute asthmatic attack. Give a five-minute oral presentation of your plan that includes the signs and symptoms of acute asthma, as well as the nurse's role regarding treatment, prevention, and health teaching.
2. Give a five-minute oral presentation analyzing the implications of drug effects and interactions on the nursing care of a client with chronic obstructive pulmonary disease. Cite acceptable drug resources correlating the principles of anatomy, physiology, and microbiology in your presentation.

VI. PLANNED INSTRUCTIONAL ACTIVITIES
(e.g., lecture, media, field trips)

Lecture/discussion
Multimedia
Group discussion
Case studies

VII. APPROPRIATE TEXTS AND MATERIALS

For degree applicable courses the adopted texts and/or educational materials have been certified to be primarily college level:

YES X

NO _____

- A. Required Texts (title, author, publisher, date)
If multiple selection is offered, only representative texts need be listed.*

Drug Therapy in Nursing, Aschenbrenner, Diane et al,
Philadelphia, PA., Lippincott Co., (2002)

Davis's Drug Guide for Nurses, 8th Ed., Deglin et al,
Philadelphia, PA., F. A, Davis Co., (2004)

- B. Required Supplementary Readings

- C. Other Required Materials

Nursing 156 Course Syllabus

*A complete list of required and recommended materials is maintained in the Division Office.

VIII. PREREQUISITES, COREQUISITES, AND ENROLLMENT LIMITATIONS

A. PREREQUISITE _____ COREQUISITE

1. Indicate Type:

_____ Standard Sequential _____ Health and Safety

_____ Computational/
Communication Skills _____ Non-Course

2. Standard Requisite:

Identify three UC/CSU campuses that offer the equivalent pre/corequisite course with the equivalent target course and list the number and title of each.

University Name: _____ Catalog Year _____

Equivalent Target Course: _____

Equivalent Requisite Course: _____

University Name: _____ Catalog Year _____

Equivalent Target Course: _____

Equivalent Requisite Course: _____

University Name: _____ Catalog Year _____

Equivalent Target Course: _____

Equivalent Requisite Course: _____

3. Entrance Skills/Knowledge:

List the **required** skills and/or knowledge without which a student would be **highly unlikely to receive a grade of A, B, C, or Credit** (or for Health and Safety, would **endanger self or others**) in the Target Course.

- a. Examine the physiological basis of selected disease processes.
- b. Assess the nurse's role in providing care throughout the life span.
- c. Examine client related and drug related factors that influence the effects of drugs on body systems.
- d. Describe characteristics of major drug groups.
- e. Discuss principles of therapy with major drug groups in relation to drug selections, dosage, route, and use in selected populations.
- f. Describe legal, ethical, and economic aspects of drug therapy.
- g. Describe the use and effects of alternative/complementary therapies.

(Add additional Skills/Knowledge as needed.)

B. ENROLLMENT LIMITATIONS

1. Indicate the category which describes the Enrollment Limitation for this course.

Band/Orchestra
 Theater
 Speech
 Chorus
 Journalism
 Dance
 Intercollegiate Athletics
 Honors Course
 Blocks of Courses
 Other (Specify)

2. List Degree and/or Certificate requirements that are met by this course:
3. List all El Camino College courses that also satisfy the requirements listed in Section B.2.:

