HS M23: PHARMACOLOGY FOR ALLIED HEALTH PROFESSIONALS

Originator
clee

Co-Contributor(s)

Name(s)
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College
Moorpark College

Discipline (CB01A)
HS - Health Sciences

Course Number (CB01B)
M23

Course Title (CB02)
Pharmacology for Allied Health Professionals

Banner/Short Title
Pharm/For Allied Health

Credit Type
Credit

Start Term
Fall 2020

Catalog Course Description
Introduces pharmacology to allied health professionals. Includes basic pharmacological terminology and concepts, and common generic and trade name medications.

Additional Catalog Notes
This course does not include medication dosage calculations.

Taxonomy of Programs (TOP) Code (CB03)
1201.00 - *Health Occupations, General

Course Credit Status (CB04)
D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)
B (Transferable to CSU only)

Course Basic Skills Status (CB08)
N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)
D - Possibly Occupational

Course Cooperative Work Experience Education Status (CB10)
N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)
Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)
N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)
Y - Not Applicable

Course Noncredit Category (CB22)
Y - Credit Course

Funding Agency Category (CB23)
Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)
2 - Not Program Applicable

General Education Status (CB25)
Y - Not Applicable

Support Course Status (CB26)
N - Course is not a support course

Field trips
Will not be required

Grading method
Letter Graded

Alternate grading methods
Student Option- Letter/Pass
Pass/No Pass Grading

Does this course require an instructional materials fee?
No

Repeatable for Credit
No

Is this course part of a family?
No

Units and Hours

Carnegie Unit Override
No

In-Class

Lecture
Minimum Contact/In-Class Lecture Hours
35
Maximum Contact/In-Class Lecture Hours
35

Activity

Laboratory

Total in-Class

Total in-Class
Total Minimum Contact/In-Class Hours
35
Total Maximum Contact/In-Class Hours
35

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class
Minimum Outside-of-Class Hours
70
Maximum Outside-of-Class Hours
70

Total Student Learning

Total Student Learning
Total Minimum Student Learning Hours
105
Total Maximum Student Learning Hours
105

Minimum Units (CB07)
2
Maximum Units (CB06)
2

Advisories on Recommended Preparation
Recommended Preparation: NS M19 Medical Terminology

Student Learning Outcomes (CSLOs)

	Upon satisfactory completion of the course, students will be able to:
1	demonstrate the knowledge of basic pharmacological terminology, concepts, and uses for various disease processes and conditions.
2	describe the therapeutic action of commonly prescribed drug categories.

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1	describe the pharmacodynamics and pharmacokinetics of drugs.
2	define pharmacological terminology and drug abbreviations.
3	identify dosage forms in which drugs are manufactured.
4	identify routes of drug administration.
5	describe therapeutic action of commonly prescribed drug categories.
6	identify units of measure for drug dosages.
7	group drugs by pharmacological categories.
8	identify several drugs used to treat common diseases.
9	demonstrate techniques of obtaining accurate drug information from drug references in a timely manner.
10	apply knowledge of drugs to the analysis of health care records.

Course Content

Lecture/Course Content

1. **(15%) - Pharmacological terminology and abbreviations, classifications, methods of delivery, and substance abuse**
2. **(15%) - Medications for endocrine disorders, reproductive system, muscle spasms, bone disorders, skin disorders, eye disorders, and ear disorders**

3. **(15%) - Medications for neoplasia, pulmonary disorders, GI disorders, vitamins, minerals, herbs, kidney disorders, and electrolyte disorders**
4. **(15%) - Medications for chest pain, myocardial infarction, stroke, shock, anaphylaxis, lipid disorders, inflammation, allergies, immune disorders, and infections**
5. **(15%) - Medications for control of pain, fever, hypertension, heart failure, dysrhythmias, general anesthesia, and coagulation disorders**
6. **(15%) - Medications for the autonomic nervous system, anxiety, sedation, insomnia, seizures, behavioral/emotional disorders, mood disorders, psychoses, Parkinson's, and dementia**
7. **(10%) - Group discussion and analysis**

Laboratory or Activity Content

Not applicable.

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Skills demonstrations
Written expression

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Classroom Discussion
Computational homework
Essay exams
Group projects
Individual projects
Objective exams
Projects
Problem-solving exams
Participation
Quizzes
Reports/Papers/Journals
Reports/papers
Research papers

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Audio-visual presentations
Computer-aided presentations
Class activities
Class discussions
Case studies
Distance Education
Group discussions
Internet research
Lecture
Small group activities

Describe specific examples of the methods the instructor will use:

- Powerpoint presentation on emerging anti-infective medications' mechanisms of actions and adverse effects.
- Demonstration of dosage calculations utilizing dimensional analysis, the formula method, and ratio-proportion.

Representative Course Assignments

Writing Assignments

1. Explain the special considerations for drug therapy in the pediatric and geriatric populations.
2. Describe the commonly-prescribed drug's classification and its relevant core drug knowledge (pharmacokinetics, pharmacodynamics, contraindication, precautions, and adverse effects).

Critical Thinking Assignments

1. Evaluate a sample patient's medical record to determine the drug therapies used for treating particular disorders.
2. Analyze a case study on a patient's drug regimen for potential drug interactions.
3. Research and write an analytic report on current drug therapies.

Reading Assignments

1. Read the assigned content from the textbook.
2. Read an assigned drug monograph and be prepared to discuss necessary patient education.

Skills Demonstrations

1. Demonstrate calculation of the safe dose range for a client, based on the client's weight.

Outside Assignments

Representative Outside Assignments

1. Investigate the pharmacologic actions of five drugs per week in drug reference resources.
2. Use the Internet and/or library resources to determine the effects of common drugs for diseases and disorders.

Articulation

C-ID Descriptor Number

HIT 107X

Status

Approved

Equivalent Courses at 4 year institutions

University	Course ID	Course Title	Units
CSU Long Beach	NURS 245	Pharmacology	3
CSU Channel Islands	NRS 204	Pharmacology of Nursing Practice I	1.5
CSU Bakersfield	NURS 245	Pharmacology	3
CSU East Bay	NURS 2015	Pharmacology	3

Comparable Courses within the VCCCD

NS V07 - Pharmacology

Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
American River College	NURSE 310	Pharmacology and Implications for Health Care Practitioners	3
San Diego Mesa College	HEIT 125	Basic Pharmacology for Allied Health	2
Cerro College	HCRS C230	Pharmacology for Health Professionals	3

District General Education

A. Natural Sciences

B. Social and Behavioral Sciences

C. Humanities

D. Language and Rationality

E. Health and Physical Education/Kinesiology

F. Ethnic Studies/Gender Studies

Course is CSU transferable

Yes

CSU Baccalaureate List effective term:
Fall 1998

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

IGETC

Area 1: English Communication

Area 2A: Mathematical Concepts & Quantitative Reasoning

Area 3: Arts and Humanities

Area 4: Social and Behavioral Sciences

Area 5: Physical and Biological Sciences

Area 6: Languages Other than English (LOTE)

Textbooks and Lab Manuals

Resource Type
Textbook

Classic Textbook
No

Description
Holland, Norman, Michael Patrick Adams, and Jeanine Brice. *Core Concepts in Pharmacology.* 5th ed. Pearson, 2017.

Resource Type
Textbook

Description
Turley, Susan. *Understanding Pharmacology for Health Professionals.* 5th ed. Prentice Hall, 2015.

Resource Type
Textbook

Classic Textbook
No

Description
Danielson, Jennifer, Jill Marquiz, and Skye A. McKennon. *Pharmacology Essentials for Allied Health.* Medtech, 2017.

Library Resources

Assignments requiring library resources

Using the Library's print and online resources, complete medication research assignments.

Sufficient Library Resources exist

Yes

Example of Assignments Requiring Library Resources

Research a medication released within the past two years used to treat auto-immune disorders, and write a 1 page summary of the drugs mechanisms of actions and administration considerations.

Distance Education Addendum

Definitions

Distance Education Modalities

Hybrid (51–99% online)
Hybrid (1–50% online)
100% Online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Regular Effective/Substantive Contact

Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
E-mail	Weekly emails as an introduction to that week's course activities. Individual emails to discuss course progress, as needed or initiated by the student.
Other DE (e.g., recorded lectures)	Lecture on course content. Written feedback on assignments.

Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
E-mail	Weekly emails as an introduction to that week's course activities. Individual emails to discuss course progress, as needed or initiated by the student.
Other DE (e.g., recorded lectures)	Lecture on course content. Written feedback on assignments.
Asynchronous Dialog (e.g., discussion board)	Discussion forums on various medication classes and current events in allied health related to pharmacology.
Synchronous Dialog (e.g., online chat)	Scheduled online chats reviewing the week's course content.

100% online Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
E-mail	Weekly emails as an introduction to that week's course activities. Individual emails to discuss course progress, as needed or initiated by the student.
Other DE (e.g., recorded lectures)	Lecture on course content. Written feedback on assignments.
Asynchronous Dialog (e.g., discussion board)	Discussion forums on various medication classes and current events in allied health related to pharmacology.
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Examinations

Hybrid (1%–50% online) Modality
On campus

Hybrid (51%–99% online) Modality
Online
On campus

Primary Minimum Qualification
HEALTH

Review and Approval Dates

Department Chair
MM/DD/YYYY

Dean
MM/DD/YYYY

Technical Review
MM/DD/YYYY

Curriculum Committee
MM/DD/YYYY

DTRW-I
MM/DD/YYYY

Curriculum Committee
MM/DD/YYYY

Board
MM/DD/YYYY

CCCCO
MM/DD/YYYY

Control Number
CCC000427303

DOE/accreditation approval date
MM/DD/YYYY