Modesto Junior College

Course Outline of Record Report

10/20/2021

NURSE270 : Nursing Process: Pharmacology

General Information

Faculty Author:	• Allison Sampson • Hunt, Bonnie • Macias, Jennifer • Forbes, Brian
Attachments:	NURSE 270 DE Addendum Fall 2020.pdf NURSE 270 DE Addendum EFF FA20.pdf NURSE-270_SU17.pdf Download
Course Code (CB01) :	NURSE270
Course Title (CB02) :	Nursing Process: Pharmacology
Department:	Nursing
Proposal Start Date:	MJC Summer 2022
TOP Code (CB03) :	(1230.10) Registered Nursing
CIP Code:	(51.3801) Registered Nursing/Registered Nurse
SAM Code (CB09) :	Clearly Occupational
Distance Education Approved:	No
Course Control Number (CB00) :	CCC000028453
Curriculum Committee Approval Date:	09/09/2014
Board of Trustees Approval Date:	10/08/2014
External Review Approval Date:	01/01/2014
Course Description:	Introduction to concepts of pharmacology, including pharmacokinetics, pharmaceutical systems of measurements & calculations, drug classifications, and nursing responsibilities in medication administration.
Proposal Type:	Add Distance Education We are proposing to move this course from teleconference to a hybrid/online format.
Faculty Author:	• Allison Sampson

Discipline(s)

Master Discipline Preferred:	• Nursing
Bachelors or Associates Discipline Preferred:	No value

Course Coding

Basic Skill Status (CB08)

Course is not a basic skills course.

Course Special Class Status (CB13)

Course is not a special class.

Grading

- A-F Only

☐ Allow Students to Gain Credit by Exam/Challenge

Repeatability

0

Course Prior To College Level (CB21)

Not applicable.

Rationale For Credit By Exam/Challenge

No value

Type of Repeat

No value

☐ Allow Students To Audit Course

Course Support Course Status (CB26)

Course is not a support course

Associated Programs

☑ Course is part of a program (CB24)

Associated Program	Award Type	Active
Nursing: ADN Program (RN) (In Development)	A.S. Degree	MJC Fall 2023
Nursing: ADN Program (RN)	A.S. Degree	MJC Summer 2020

Transferability & Gen. Ed. Options

Course General Education Status (CB25)

Y

Transferability

Transferable to CSU only

Transferability Status

Approved

Field Trips

Field trips are required.

- (•) Yes
- ( ) No
- ( ) Maybe

Comparable Lower-Division Courses at UC/CSU v2

Courses numbered 100-299 require identification two comparable lower-division courses from CSU or UC from the current institutional catalog (not schedule). At least one course from CSU, and if requesting/maintaining UC general elective transfer, one course from UC. Please identify the CSU campus offering this course. (Term type is indicated in parentheses)

CSU, Fresno (SEM)

CSU Catalog Year

No Value

Provide the CSU course code (e.g., ENGL 1A) from the most current official Catalog (not schedule). Curriculum changes each year.

NURS 2860

CSU Course Title

Pharmacology in Nursing

Does course-to-course or lower-division, "major prep" articulation with this course exist for this academic year?

No Value

Select the institution that offers the second comparable course from CSU or UC. If seeking or maintaining UC transferability, you must supply a UC campus. (Term type is indicated in parentheses)

CSU, Chico (SEM)

CSU/UC Catalog Year

No Value

Provide the CSU course code (e.g., ENGL 1A) from the most current official Catalog (not schedule). Curriculum changes each year.

NURS 124

CSU Course Title

Pharmacology in Nursing

Does course-to-course or lower-division, "major prep" articulation with this course exist for this academic year?

No Value

Select the institution that offers the third comparable course from CSU or UC. If seeking or maintaining UC transferability, you must supply a UC campus if not already provided above. (Term type is indicated in parentheses)

No Value

CSU/UC Catalog Year

No Value

Provide the CSU/UC course code (e.g., ENGL 1A) from the current official Catalog (not schedule). Curriculum changes each year.

No Value

CSU Course Title

No Value

Does course-to-course or lower-division, "major prep" articulation with this course exist for this academic year?

No Value

Units and Hours

Summary

Minimum Credit Units (CB07)	2
Maximum Credit Units (CB06)	2
Total Course In-Class (Contact) Hours	36
Total Course Out-of-Class Hours	72
Total Student Learning Hours	108

Credit / Non-Credit Options

Course Credit Status (CB04)

Credit - Degree Applicable

Course Non Credit Category (CB22)

Credit Course.

Non-Credit Characteristic

No Value

Course Classification Code (CB11)

Credit Course.

Funding Agency Category (CB23)

Not Applicable.

☐ Cooperative Work Experience Education Status (CB10)

☐ Variable Credit Course

Weekly Student Hours

In Class	Out of Classs

Course Student Hours

Course Duration (Weeks)	18

Lecture Hours	2	4
Laboratory Hours	0	0
Activity Hours	0	0

Hours per unit divisor	52.5
Course In-Class (Contact) Hours	
Lecture	36
Laboratory	0
Activity	0
Total	36
Course Out-of-Class Hours	
Lecture	72
Laboratory	0
Activity	0
Total	72

Time Commitment Notes for Students

No value

Units and Hours - Weekly Specialty Hours

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

Prerequisites, Corequisites, and Advisories

No Value

Requisite Skills

Requisite Skills	Description
No value	No value

Specifications

Methods of Instruction

Methods of Instruction (Typical)	INSTRUCTIONAL METHODS

MOI

1. Power Point presentation and lecture
2. Demonstration of math calculation: medication calculation
3. Use of computer programs
4. Demonstration of use of visual aids such as needleless syringes, medication labels, intravenous (IV)bags and tubing, and samples of unit dosing
5. Instructor-led learning activities

Assignments (Typical)

Evidence of Appropriate Workload for Course Units (Quantity)

1. Weekly reading assignments from various textbooks
2. 1-4 written assignments (in class and outside assignments)
3. Daily practice on methods of drug dose calculations
4. Weekly medication calculation practice via computer programs

Evidence of Critical Thinking (Quality)

1. Typical assignments: Case studies requiring students to apply clinical reasoning skills with medication administration i.e. medication errors, recognition of adverse effects, and expected patient outcomes
2. Sample exam questions:
    1. Lasix 20 mg PO every AM is ordered. You have Lasix 10 mg tablets. How many tablets will you give?
    2. You have an order to give Potassium 20 mEq at 0900. The patient's potassium level is 3.9. What will you do?
        1. Give the potassium
        2. Hold the medication and call the physician
        3. Check the patient's blood pressure
        4. Check the patient's pulse
    3. The physician ordered 1 liter of IV fluids to infuse in 10 hours. How many milliliters per hour will you set the IV pump?

Methods of Evaluation (Typical)	Rationale
FORMATIVE EVALUATION	1. Cumulative medication portfolio final assignment. 2. Quizzes: student must complete with an overall satisfactory grade of 76% or above. 3. Written assignments
SUMMATIVE EVALUATION	1. Final cumulative assignment to equal 76%.

Equipment

No Value

Textbooks

Author	Title	Publisher	Date	ISBN
Deglin, J.H. & Vallerand, A.H.	Mosby's Drug Guide for Nursing Students (11th Ed.)	Mosby, Inc.	2014	9780323170
Lilley, L., Collins, R., Harrington, S., & Snyder, J. S.	Pharmacology and the Nursing Process (7th Ed.)	Mosby	2012	9780323087

Lilley, L., Collins, R., Harrington, S., & Snyder, J. S.	Study guide for Pharmacology and the Nursing Process (7th Ed.)	Mosby	2012	9780323091
Morris, D. G.	Calculate with Confidence (6th Ed.)	Mosby	2014	9780323089

Other Instructional Materials

No Value

Textbook Exceptions and Supplementals

Title of Other Material

No Value

Who prepared or published this supplemental material?

No Value

Publish date

No Value

Are any of the textbook editions cited on this proposal considered "Classics" (typically with a publish date more than 5 years old)?

- ☐ Yes
- ☑ No
- ☐ Unsure

If yes, explain why this older text is used in the course. Reasons should focus on content only.

No Value

Materials Fees v2

Is there a materials fee for this course?

No

Provide a cost breakdown for all items provided for a materials fee. Each item must become "tangible personal property" of student upon payment of the fee and completion of the course.

No Value

Explain how these materials are related to the Student Learning Objectives for the course.

No Value

Explain how the materials have continuing value outside the classroom.

No Value

Is the amount of the material the student receives commensurate with the fee paid AND with the amount of material necessary to achieve the Student Learning Objectives for the course AND provided as the district's actual cost?

No Value

If no is checked, explain why.

No Value

If the district is NOT the only source of these materials, explain why the students have to pay a fee to the district rather than supply the materials themselves. (Cost savings? Health/Safety? Consistency/Uniformity?)

No Value

Learning Outcomes and Objectives

Course Objectives

Differentiate pharmaceutical systems of measurement and calculation.

Demonstrate accurate drug dosage calculation.

Discuss ethical/legal issues of drug administration.

Identify major regulations affecting the control of drug preparation.

Apply the nursing process to medication administration across the life span.

Define various drug actions by name, route, form and classification.

Examine alternatives to conventional drug therapy.

Compare and contrast the various cultural, genetic, and racial or ethnic factors that may affect or alter an individual's response to, and compliance with medications.

Examine written communication of pharmaceutical information directed to the public.

CSLOs

Apply pharmaceutics, pharmacotherapeutics, pharmacokinetics, and pharmacodynamics in the accurate preparation and administration of medications.

Expected SLO Performance: 0.0

ISLOs Core ISLOs	Students will develop skills that aid in lifelong personal growth and success in the workplace. Students will be able to: Identify and assess individual values, knowledge, skills, and abilities in order to set and achieve lifelong personal, educational, and professional goals. Practice decision-making that builds self-awareness, fosters self-reliance, and nourishes physical, mental, and social health. Apply skills of cooperation, collaboration, negotiation, and group decision-making. Exhibit quality judgment, dependability, and accountability while maintaining flexibility in an ever-changing world.
Nursing NURSING: ASSOCIATE DEGREE NURSING PROGRAM (RN)	Formulates a nursing diagnosis through observation of the client's physical condition and behavior, and through interpretation of information obtained from the client and others, including the health care team.
	Formulates a care plan, in collaboration with the client, which ensures that direct and indirect nursing care services provide for the client's safety, comfort, hygiene, and protection, and for disease prevention, and restorative measures.
	Performs skills essential to the kind of nursing action to be taken, explains the health treatment to the client and family and teach the client and family how to care for the client's health needs.
	Evaluates the effectiveness of the care plan through observation of the client's physical condition and behavior, signs and symptoms of illness, and reactions to treatment, and through communication with the client and health team members, and modifies the plan as needed.
Nursing NURSING: LVN TO ADN (RN) ADVANCED PLACEMENT PATHWAY, AS	Formulates a care plan, in collaboration with the client, which ensures that direct and indirect nursing care services provide for the client's safety, comfort, hygiene, and protection, and for disease prevention, and restorative measures.
	Performs skills essential to the kind of nursing action to be taken, explain the health treatment to the client and family and teach the client and family how to care for the client's health needs.
	Evaluates the effectiveness of the care plan through observation of the client's physical condition and behavior, signs and symptoms of illness, and reactions to treatment, and through communication with the client and health team members, and modifies the plan as needed.
	Employs concepts of the Roy Adaptation Model to individualize patient-centered care.

Content

Course Content

1. Orientation to pharmacology
2. Nursing process and drug therapy
3. Pharmacological systems of measurement and calculations
4. Pharmacological principles and medication administration
5. Cultural, legal, and ethical considerations
6. Medication errors
7. Drug actions and adverse effects
8. Lifespan considerations
9. Patient education
10. Over-the-counter drugs and Vitamins
11. Nursing Implications
12. Drug classifications
    1. Endocrine drugs
    2. Cardiovascular drugs
    3. Fluids and electrolytes
    4. Analgesics and Anti-inflammatory drugs
    5. Respiratory drugs
    6. Antibiotics
    7. Gastrointestinal drugs and Nutritional Supplements

Recommended Course Content

Recommended Course Content

No Value

Recommended Lab Content

No Value

Distance Education (DE) Addendum

Is this course being proposed for Distance Education? If so, select Yes below from the list in the dropdown and complete the questions. If no, select No and skip all questions.

- Yes

Modality Type:

- Hybrid

Methods of Instruction:

- Asynchronous Discussion
- Viewing and Listening to Videos
- Online Activities
- Written Assignments
- Reading Course Materials
- Group Meetings/Review Sessions (hybrid only)
- Interactive Activities
- Listening to Audio Materials
- Facilitated Discussions
- Quizzes, Exams, and Surveys
- On-campus Orientation Sessions (hybrid only)
- Guest Speakers

If Other is selected for Methods of Instruction, please describe:

In person medication administration exam.

Describe how the methods of instruction selected above will allow students to meet the course's learning outcomes:

Through interactive discussion boards, video support, faculty engagement in zoom and office hours, online tutoring. The final portfolio project encompasses all the information provided through out the semester.

Describe how the methods selected will be presented in an accessible way (Title 5 §55206). For information about accessibility standards in online classes, see the OEI Rubric, Section D (Copy this link and paste in a separate browser to visit OEI Rubric: https://onlinenetworkofeducators.org/course-design-academy/online-course-rubric/)

Through closed captioning of videos, written material, face to face with faculty.

Regular and Effective Contact (REC) Methods and Examples: Select the methods below that ensure regular effective contact (REC) will take place among students and among students and faculty (Title 5 §55204) by being initiated by the instructor, regular and frequent, and meaningful or of an academic nature. Select the methods of REC that may be used:

No Value

REC Among students: How will students interact with each other in the course? What methods will be used? Check all that apply.

- Discussion Boards
- Group Projects
- Q & A Discussion Boards
- Third-Party Tools (e.g. FlipGrid, VoiceThread, etc...)

REC Among students and faculty: How will faculty interact with students in the course? What methods will be used? Check all that apply

- Announcements
- Assignment Feedback
- Discussion Boards
- Email
- Video Conferencing Technology (e.g. Zoom, MS Teams, etc...)
- Q & A Discussion Boards
- Office Hours
- Third-Party Tools (e.g. FlipGrid, VoiceThread, etc...)
- The Online Course Syllabus

Other Methods of REC among students and among students and faculty. Please describe and provide example(s).

No Value

In hybrid or teleclass courses, describe what parts of the course are done face-to-face and what parts are done online.

Students will have the opportunity to interact with faculty and peers through zoom meetings scheduled. There will also be live tutoring available for the medication administration exam.

Checkoff List

Does this proposal meet the five development criteria as stated in the CCCCO Program and Course Approval Handbook (PCAH)?

Yes

Are library resources needed for this course?

No library resources are needed for this course.

Do you have any special concerns/needs or comments? If yes, describe.

No Value

Have you included documentation, if necessary, by uploading file(s) in the Cover Info tab? For example, advisory committee meeting minutes, C-ID descriptor, etc.)

No documentation is necessary

If this is a new course, have you attached the completed class capacity form, with required approvals, and uploaded the file in the Cover Info tab?

No, this is not a new course

If you are requesting Distance Education, did you complete the DE addendum tab?

Yes

If requesting transferability, have you completed the comparable courses field?

Yes

Add any additional comments you want reviewers to read.

No Value