

Curriculum proposal number 2006.29

Curriculum Action Request (CAR) (Form 4-93) - Maui Community College

1. Author(s) Nancy Johnson

2. Authors' unit(s) Allied Health

3. Date submitted to Curriculum Committee 11/1/06

4. a. General type of action?  course  program

b. Specific type of action

Addition

Modification

regular

number/alpha

prerequisites

experimental

title

corequisites

other (specify)

credits

program

\_\_\_\_\_

description

other (specify)

grade option

5. Reason for this curriculum action

Current prerequisite is not system wide course; *replacement prerequisite courses available on other campuses - see course outline*

6. Existing course

PHRM 203 General Pharmacology

alpha number title 3 credits

7. Proposed new/modified course

alpha number title 3 credits

8. New course description or page number in catalog of present course description, if unchanged.

Discusses drugs with emphasis on sites and mechanism of action, toxicity, fate, and uses of major therapeutic agents. (*Letter grade only.*)

9. Prerequisite(s)

*(HawCC)*

*ac*

ZOOL 141, BIO 141 (HCC) or BIO 243 (UH-Hilo) or ZOOL 240 (LCC) or consent

10. Corequisite(s) None

11. Recommended preparation

12. Is this course cross-listed?  yes  no If yes, list course

13. Student contact hours per week

lecture 3 hours lab     hours lecture/lab     hours other     hours, explain

14. Revise current MCC General Catalog page(s) 130


15. Course grading  letter grade only  credit/no credit  either  audit

16. Proposed semester and year of first offering? fall semester 07 year

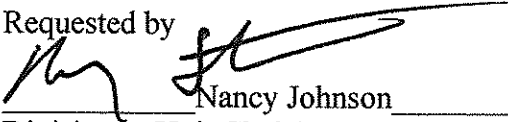
17. Maximum enrollment     Rationale, if applicable

18. Special scheduling considerations?  yes  no If yes, explain.

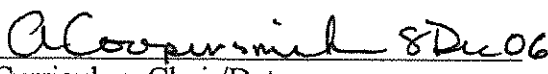
19. Special fees required?  yes  no If yes, explain.
20. Will this request require special resources (personnel, supplies, etc.?)  yes  no  
If yes, explain.
21. Is this course restricted to particular room type?  yes  no If yes, explain.
22. What method of delivery is appropriate for this course?  
 traditional  HITS (interactive TV)  cable  on-line  any of these  
 other, explain
23.  Course fulfills requirement for Nursing Program program/degree  
 Course is an elective for \_\_\_\_\_ A.A.S. \_\_\_\_\_ program/degree  
 Course is elective for AA degree
24. This course  increases  decreases  makes no change in number of credit required  
for the program(s) affected by this action
25. Is this course taught at another UH campus?  yes  no  
a. If yes, specify campus, course, alpha and number  
PHRM 203, UHM, UHH, Kap CC  
b. If no, explain why this course is offered at MCC
26. a. Course is articulated at  
 UHCC  UH Manoa  UH Hilo  UH WO  Other/PCC  
b. Course is appropriate for articulation at  
 UHCC  UH Manoa  UH Hilo  UH WO  Other/PCC  
c. Course is not appropriate for articulation at  
 UHCC  UH Manoa  UH Hilo  UH WO  Other/PCC  
d. Course articulation information is attached?  yes  no .....


Proposed by   
Nancy Johnson  
Author or Program Coordinator/Date

Approved by   
3/14/07  
Academic Senate Chair/Date

Requested by   
Nancy Johnson  
Division or Unit Chair/Date

  
4/3/07  
Chief Academic Officer/Date

Recommended by   
8 Dec 06  
Curriculum Chair/Date

  
4/8/07  
Chancellor/Date

**Maui Community College  
Course Outline**

1.    Alpha and Number    Pharmacology 203  
                                  PHRM 203  
  
          Course Title            General Pharmacology  
  
          Credits                    3  
  
          Date of Outline        October 2006 (Nancy Johnson)
  
2.    Course Description    Discusses drugs with emphasis on sites and mechanisms  
                                  of action, toxicity, fate, and uses of major therapeutic  
                                  agents. (*Letter grade only*)
  
3.    Contact Hours         3 hour lecture/week
  
4.    Prerequisites         ZOOL 141 or BIO 141 (HawCC) or BIO 243 (UH-  
                                  Hilo), ZOOL 240 (LCC) or consent  
  
          Corequisites  
  
          Recommended Preparation

Approved by \_\_\_\_\_



Date \_\_\_\_\_



## 5. General Course Objectives

Pharmacology 203 is required for the AAS in the PN/RN Nursing Program.

Detailed information on how Pharmacology 203 focuses on the Maui Community College general education standards, see the attached curricular grid.

Pharmacology 203 fulfills three of the 10 credits for the Natural Science requirement for the Maui Community College A.A. degree and is an elective for the A.S., and A.A.S. degrees.

Pharmacology 203 fulfills the General Education Core Diversification requirements for the University of Hawai'i at Manoa for Natural Science, Biological Sciences (D/B.) The General Education Diversification hallmarks achieved by this course include

- uses the terminology of the biological sciences;
- involves knowledge and theories relating to processes in the biological sciences; and
- demonstrates inquiry that is guided by observation/experiment.

## 6. Student Learning Outcomes

*For assessment purposes, these are linked to Course Content.*

Upon successful completion of this course, students will be able to

- a. describe basic mechanisms of drug action;
- b. describe mechanisms by which the body processes medications from ingestion to metabolism and elimination;
- c. demonstrate how differences between individuals affect their response to drugs;
- d. state the therapeutic uses for each drug group;
- e. identify frequent complications associated with different drug classes;
- f. predict side effects of drugs classes and how to deal with them;
- g. identify clinically significant drug interactions;
- h. list dosage forms of commonly used medications and be able to communicate to patients how to use these dosage forms effectively;
- i. identify the potential effects of co-morbidities with other organ systems on the qualitative and quantitative effects of drugs;
- j. explain how special populations are likely to respond to drugs and apply this information to appropriate administration of said drugs; and
- k. identify how guidelines for disease state management influence drug prescribing and administration.

## 7. Course Content and Time Spent on Each Topic *Linked to #6. Student Learning*

Week 1	Introduction to pharmacology, receptors, kinetics, and biotransformation a, b
Week 2	Drugs affecting autonomic nervous system, cholinergics drugs, anticholinergics drugs c, d, e, f, g, h, i, j, k
Week 3 & 4	Adrenoceptor agonist and antagonist drugs c, d, e, f, g, h, i, j, k Treatment of hypertension, angina, heart failure c, d, e, f, g, h, i, j, k
Week 5	Use of diuretics, histamine, prostaglandins, leucotrienes, treatment of asthma c, d, e, f, g, h, i, j, k
Week 6 & 7	Use of sedative hypnotics, antiepileptics, general and local anesthetics c, d, e, f, g, h, i, j, k
Week 8	Skeletal muscle relaxants, treatment of Parkinson's disease, Use of antipsychotics, antidepressants, c, d, e, f, g, h, i, j, k
Week 9	Use of opioids, anticoagulants, treatment of hyperlipidemia, NSAIDS c, d, e, f, g, h, i, j, k
Week 10,11	Hypothalamic and pituitary hormones, thyroid, adrenocorticosteroids, gonadal hormones, c, d, e, f, g, h, i, j, k
Week 12	Treatment of diabetes, bone mineral homeostasis
Week 13	Antibiotics, tuberculosis c, d, e, f, g, h, i, j, k
Week 14	Atifungals, antivirals, antiprotozoals c, d, e, f, g, h, i, j, k
Week 15	Use of antiparasitics, cancer chemotherapy, other topics c, d, e, f, g, h, i, j, k

## 8. Text and Materials

Katzung, B, Basic and Clinical Pharmacology , 9<sup>th</sup> edition, 2005.

## 9. Recommended Course Requirements and Evaluation

50-90%	Midterm exams and final exam
0-50%	Homework on discussion topics

## 10. Methods of Instruction

- Lectures
- Guided inquiry
- Focused on-line discussion
- Reading references
- Resource websites
- Demonstrations
- Audio-visual aids
- Exams
- WebCT learning materials and assignments