



Course Number: PHMY 595

Title: Understanding Complementary and Alternative Medicine (CAM)

Credit Hours: 2

Coursemasters: Mona G. Tsoukleris, Pharm.D., BCPS
Yuan Luo, Ph.D.

Semester Taught: Spring
Thursdays, 9:00 – 11:00 AM, PLC108

Prerequisites: Human Biology I (PHAR 514) and II (PHAR 524)
Pharmaceutics (PHAR 535) or concurrent enrollment
Study Design & Analysis (PHAR 517)

Prior Learning Skills: Literature evaluation skills

Eligible Class Standing: Y2

Maximum Enrollment: 50

Catalog Description: This course is designed to increase awareness of CAM and its potential impact on health care. Scientific data are presented to provide an educational basis for rational evaluation, safety, and proper perspective for the role of these popular remedies or modalities in health care.

Pathway: N/A

Dual-degree Program: N/A

Required & Recommended Texts and Readings:

- On line resources available and posted on Blackboard site
- Assigned Readings

Required Equipment: N/A

Activities:

- Lectures and in class discussion of a variety of CAM-related topics
- Students select an individual and/or group project from a variety of options (see current year assignments)
- Blackboard-based on-line discussions may be assigned

Preceptors: N/A

Site Selection Criteria: N/A

Course Outcomes: Upon completion of this course, the student will be able to:

1. Identify the bases upon which commonly encountered complementary and integrative therapies are practiced.
2. Discuss and apply evidence-based principles to evaluate the risks and benefits associated with a variety of CAM therapies.
3. Discuss the chemistry of plant constituents and what is understood about the relationship of that chemistry to physiological activity.
4. Explain the regulation of dietary supplements.
5. Discuss the scientific basis for product quality and performance, applying it to product selection.

Assessments: Students will be assessed regarding achievement of course objectives as follows:

- 1-2 hour examinations (60% of student grade): Mid-term and end of semester Final.
- Participation and performance in group and/or individual assignments (30% of student grade)
- Up to five quizzes (10% of student grade)

Letter Grade Determination:

The minimum number of points required to pass the course is 70% of the total possible number of points. The following scale will be used to assign letter grades:

A > 90% B = 80 - 89% C = 70 - 79% D 60 – 69% F < 60%

Course Faculty:

| Faculty | Contact Information | | |
|--|----------------------------|--------------|--|
| | Location | Phone | E-mail |
| Mona Tsoukleris, Pharm.D., BCPS (Co-Coursemaster) | 446PH | 410-706-8312 | mtsoukle@rx.umaryland.edu |
| Yuan Luo, Ph.D. (Co-Coursemaster) | 501PH | 410-706- | yluo@rx.umaryland.edu |
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| Ralph Blomster, Ph.D. | 656PH | 410-788-3397 | rblomster@rx.umaryland.edu |
| Tom Dowling, Pharm.D., Ph.D. | 540D, AHB | 410-706-0884 | tdowling@rx.umaryland.edu |
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| Patricia Fosarelli, MD, DMin | Off campus | | Route via mtsoukle@rx.umaryland.edu |
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| Lixing Lao, Ph.D., L.Ac. | Off campus | | Route via mtsoukle@rx.umaryland.edu |
| Raymond Love, Pharm.D., BCPP, FASHP | 440PH | 410-706-1768 | rlove@rx.umaryland.edu |
| J. Edward Moreton, Ph.D. | 436PH | 410-706-7511 | emoreton@rx.umaryland.edu |
| Joan Ordman, M.D. | Off Campus | | Route via mtsoukle@rx.umaryland.edu |
| Francis Palumbo, Ph.D., J.D. | 260, 515 W. Lombard St. | 410-706-2303 | fpalumbo@rx.umaryland.edu |

Student Projects – Example of Project Done in 2006:

Students selected a topic to develop a “CAM Card.” CAM Cards were formatted similarly to the “Top 200 Drug Cards” and were developed over the semester, posted on Blackboard, and served as the basis for course quizzes.

Instructions:

- Students reviewed the Blackboard discussion board to select a topic, used the discussion board to "tag" the chosen topic on a first-come first-served basis. Over the semester, students developed and posted each section of the CAM Card. CAM card assignments were assessed by 3rd year students who had previously completed the course and quiz study sheets were developed and posted. Quiz material was taken from CAM Card study documents. CAM Cards feedback was provided and final revisions were due at the end of the semester via the Blackboard Assignment Manager.
- Project grades were based on: 1) Submitted project component following guidelines outlined on Blackboard, 2) Assignment Parameters, 3) Accuracy/Validity, 4) Completeness, 5) Critical Thinking/Quality of Literature Evaluation, 6) Grammar/Spelling/Punctuation/Writing Style, 7) Referencing/Literature Citation, 8) Resource Selection, and 9) Overall quality.