

PHARMACOGNOSY

COURSE DESCRIPTION

Learners will be provided with information on cultivation, collection and processing of medicinal plants. Representative drugs from different morphological sources will be discussed including macro- and microscopic characteristics, geographic distribution, cultivation, chemical constituents and their uses.

LEARNING OBJECTIVES

Students will become familiar with the most important chemical constituents of herbs in order to appreciate the relevance of pharmacognosy as practitioners of TCM. They will also have an understanding of the issues with regards to herb-drugs interactions, and appreciate more fully some of the modern research on phytochemicals and the treatment of disease.

COURSE PREREQUISITES

Biology, Biochemistry, Introduction to Herbal Medicine, Concurrent enrollment in the Herb Pharmacopoeia series.

REQUIRED TEXTS

None

RECOMMENDED TEXTS

None

COURSE REQUIREMENTS

Final grade will be assessed on exams, class attendance and weekly quizzes

A minimum score of 70% is required to individually pass the midterm and final exams. Less than 70% on either exam will result in course failure. Students who fail the midterm or final exam, will be offered a remediation exam, which will be on the same material but more challenging. Failure to pass remediation will result in course failure and requirement to re-register and repeat the course.

GRADING SCALE: 100-90% A, 89-80% B, 79-70% C, 69% and below F

SPECIAL NOTES

Professionalism and Full and Prompt Attendance: To pass any course (separate from academic performance) all students must meet requirements for professionalism in coursework. Professionalism includes full and prompt attendance: Students who miss more than 2 class meetings in a 10-week course will earn an F in that course. Additionally, students who arrive more than 15 minutes to class or leave class before it ends will be marked tardy. Two tardies equal one absence. NOTE: Students who leave and return to class late from a break or leave during the class (especially if this is repeated) or who disrupt the class in other ways may be referred to the Academic Dean for professionalism.

CLASS ONE (The syllabus is subject to change at the discretion of the instructor.)

what is Pharmacognosy?

Students will become familiar with phgarmacognosy and the reasons why it should be studied, Class discussion will include some of the issues in pharmacognosy, such as lack of studies and the problems with standardization, as well as herb quality, active ingredients, and safety issues.

PHARMACOGNOSY

CLASS TWO

Alkaloids. Studies done on alkaloids, subcategories of alkaloids, their chemical structure, similarity to neurotransmitters.

CLASS THREE

Phenols (Tannins)

CLASS FOUR

Anthraquinones

CLASS FIVE

Midterm Exam

CLASS SIX

Flavonoids

CLASS SEVEN

Terpenes

CLASS EIGHT

Saponins

CLASS NINE

Polysaccharides

CLASS TEN

Final Exam

CLASS ELEVEN

REFERENCE MATERIAL

FACULTY INFO

Thornton, William

Please check with instructor during class to get updated contact info.

drwthornton@hotmail.com