

**COURSE DESCRIPTION**

This course provides the TCM student with a basic understanding of clinical laboratory and diagnostic tests, including blood, urine and stool tests; chemistry and microbiological studies; and an overview of specialized tests. Interpretation of test results and their clinical significance will be discussed, as well as indications for ordering tests and working with a lab to place orders.

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**LEARNING OBJECTIVES**

This course will present the different lab tests being used for diagnostic purposes. They include blood, urine, stool tests. The ways these tests are done will also be presented in class. Normal and abnormal test results will be discussed as well as their significance

Upon completion of this course, a successful student will have the knowledge in and able to interpret the laboratory clinical data and to correlate them with the diagnosis of the patient's condition. The student will understand the rationale behind these clinical laboratory approaches associated with these conditions.

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**COURSE PREREQUISITIES**

Pathophysiology I-IV, Physics for Acupuncturists, Chemistry

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**REQUIRED TEXTS**

Understanding Lab and Diagnostic Tests Moisis & Moisis, 2000

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**RECOMMENDED TEXTS**

A Manual of Laboratory & Diagnostic Tests delmer, Fischbach, 6th Ed. Lippencotti 2000

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**COURSE REQUIREMENTS**

- a. Attendance 10%
- b. Midterm Exam 40%
- c. Final Examination 40%
- d. Quizzes 10%

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

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**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.

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

CBC

Anemia panel

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CLASS TWO

Coagulation panel; Assessment of a patient on anticoagulants

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CLASS THREE

Metabolic panel/ Chem panel

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CLASS FOUR

Lipid panel, comprehensive cardiovascular profile

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CLASS FIVE

Liver function tests

Hepatitis panel

Thyroid profile, thyroid antibodies

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CLASS SIX

Midterm

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CLASS SEVEN

Glycohemoglobin, glucose & insulin levels in evaluation of DM, Insulin resistance, syndrome X

Rheumatological work up: RF, ANA, anti-cardiolipin antibodies, etc.

Cancer antigens

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CLASS EIGHT

Hormonal assessment: estrogen, progesterone, testosterone, DHEA, FSH, LH (blood, urine, saliva testing)

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CLASS NINE

Urinalysis and related tests

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CLASS TEN

Fecal tests

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CLASS ELEVEN

Final Examination

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REFERENCE MATERIAL

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FACULTY INFO

Redmond, Michael

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

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Michael Redmond has taught Western medicine courses to TCM students for many years. His previous clinical experiences include trauma, intensive care, anesthesia, and home health. Currently Redmond teaches several courses in the MTOM Program including Biology, Chemistry, Biochemistry, Western Physical Assessment, Anatomy and Physiology and Western Medical Terminology among others.