

Course Syllabus

GENERAL COURSE INFORMATION:

Course Title: Laboratory Diagnosis

Trimester Credit Hours: 4

Course Director: Dr. Guest

Email Address: jguest@parkercc.edu

Phone number: 7203

Office Hours: M: 8:00-8:50, 12:00-12:50,

Tue: 10:00-10:50, 12:00-12:50, **Wed:** 9:00-9:50

Thu: 8:00-8:50

Course Number: CLSC 6204

Total Contact Hours Per Trimester: 75

Class meeting time: Lecture: Tue, Th, Fr
11:00-11:50, Labs Mon, Tue and
Thu 1:00-2:50 and 3:00-4:50

Lab Hours Per Week: 2

Lab Director/Instructors: Dr. Guest

Lab Contact Hours/Trimester: 30

COURSE DESCRIPTION: This course teaches clinical laboratory diagnostic tests and procedures as they relate to the identification and diagnosis of systemic disorders of the human body. This includes blood chemistry, hematology, urinalysis and a variety of other laboratory tests. The course emphasizes laboratory tests that are useful for evaluating health and wellness in the chiropractic practice.

LEARNING OBJECTIVES:

Learning Outcomes: At the completion of this course, the student should:

1. Know the meaning of abnormal laboratory values
2. Know the primary laboratory findings for common conditions such as anemia, cholecystitis, pancreatitis, diabetes, hypoglycemia, hepatic dysfunction,
3. Be able to differentiate between similar conditions such as glomerulonephritis, nephrotic syndrome, kidney infection, etc. by interpreting a patient's laboratory values combined with information from the examination and presentation of the patient.
4. Have a basic understanding of the physiology/biochemistry that causes the abnormalities they observe in a laboratory report.

Lab Objectives: At the completion of this course, the student should be able to:

1. Interpret individual lab results by knowing the meaning of values that are above or below the normal reference range.
2. Interpret patterns in laboratory findings that help lead to a correct diagnosis.
3. Develop reasonable differential diagnoses for a patient based on the combination of patient presentation, exam findings and lab work.
4. Know what additional lab tests are appropriate to help rule in or rule out each differential diagnosis.
5. Determine the most likely diagnosis based on all available information.

6. Be familiar with the procedures involved in venipuncture, blood slide preparation including staining, blood typing, and other standard laboratory procedures.

GENERAL APPROACH TO TEACHING: Each class will begin by reviewing the last items covered during the previous class. That will serve to help them see how the course material is connected. At every opportunity, the instructor will help the students understand how the material is connected to chiropractic and to achieving wellness for themselves, their families and their patients.

The student is expected to be 1) on time for class / lab, 2) to not enter or leave the classroom / lab once it has begun, 3) to not eat or drink during class, 4) to engage in the learning experience, 5) to look for the application of learned material to the practice of chiropractic, 6) to seek help with difficult concepts or topics either from the instructor or another person who is doing well with the material, 7) to not allow themselves to get behind with the material .

PREREQUISITES: Physiology II, Gross Anatomy II, Systems Pathology, and Public Health

REQUIRED TEXTBOOKS:

Laboratory Diagnosis Lecture and Lab Notes by James H. Guest, DC, DACBN, CCN.

RECOMMENDED ADDITIONAL TEXTBOOKS:

Mosby's Manual of Diagnostic and Laboratory Tests 3rd Edition by Pagana & Pagana

SUPPLIES: Face shield, gown, and gloves for those wishing to draw blood

EVALUATION AND GRADING POLICY: The overall course grade is the average of the scores from two lecture examinations, one lab practical examination, and a comprehensive final exam.

Lecture Exams (2)	50%
Final Exam	25%
Lab Practical	<u>25%</u>
	100%

ESTIMATE OF STUDENT WORK LOAD:

It is the opinion of the instructor that approximately 4-5 hours of focused study each week – in addition to lecture and lab time – will be necessary for successful management of this class.

STUDENTS WITH SPECIAL NEEDS:

Parker College of Chiropractic adheres to section 504 of the Federal Disability law and assists qualified students. If you feel you qualify for this type of assistance, you should contact the Office of Student Affairs.

90/90 RULE:

This does not apply to the Lab Diagnosis course.

A complete listing of all Academic policies are found on the Parker Website:

<https://myparker.parkercc.edu/ics/Academics - Coursework/Course Catalog.jnz>

DISCLAIMER

The lecture outlines contained in the lecture booklet are NOT intended to represent the entire content of the course. A lecture outline is intended to be a guide to the lecture. The responsibility of the instructor is to follow the outline, expand the concepts and give explanation and illustrations to clarify content. The role of the student is to attend lecture and take notes over material presented by the lecturer that explains and illustrates the material listed in the outline. It is also the responsibility of the student to question the instructor if explanations and illustrations are not clearly presented or understood.

The instructors take no responsibility for the accuracy or completeness of old notes, quiz questions or exam questions that students may purchase, acquire from off of the internet or be given by previous students.

IMPORTANT NOTE:

The provisions contained in this syllabus do not constitute a binding contract between the student and Parker College of Chiropractic. These provisions may be changed at any time and for any reason at the discretion of the Course Director. When it is necessary to make changes to this document, appropriate notice (at least one week, if at all possible) will be given to the student(s).