

HPER 4800 Basic Electrocardiography
Fall 2009
Western Michigan University
Department of HPER

Instructor: Timothy J. Michael, Ph.D., FACSM
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Room: SRC 1035
Hours: Wednesday, 3-4:40
Credit hours: 2
Prerequisites: HPER 298, 317

Required Text:

Dubin, Dale. Rapid Interpretation of EKG's. Tampa, FL: Cover Publishing Company.

Course Description:

This course is designed to give students the skills and knowledge to effectively conduct and evaluate an electrocardiogram at rest and during an exercise test. In addition, coronary anatomy, function, pharmacology and the pathophysiology of heart disease will be discussed.

Course Objectives:

Upon completion of this course students will be able to:

- understand the anatomy of the heart
- understand the function of the heart (normal and abnormal)
- conduct an electrocardiogram at rest and during exercise
- understand the heart disease process
- evaluate an electrocardiograph for abnormalities during rest and exercise
- understand the effect of medications on the heart and the EKG

Course Content:

Introduction

Cardiovascular anatomy
Pathophysiology of Heart Disease
Electrophysiology
The Electrocardiogram
Rate
Axis
Rhythm

Midterm Exam (October 21st or October 28th)

Hypertrophy
Ischemia, Injury, Infarction
Conduction Disturbances

Electrolyte changes
Pharmacology
The Exercise EKG
Miscellaneous (transplants and pacemakers)
Final Exam (Tuesday December 15th 2:45 - 4:45)

Course Requirements:

Class participation
Assigned readings
Exams
Class assignments
Labs

Course Evaluation:

Mid-Term Exam	30%
Final Exam	30%
Quizzes	30%
Labs	10%

Grading Scale:

100-92	A
91-87	BA
86-83	B
82-78	CB
77-70	C
69-65	DC
64-60	D
59-0	E

Things to Remember:

-This outline/Syllabus is subject to change.

-Grades are "earned" not "given"

-No Extra Credit! So don't ask for it.

-Attendance is not factored into your grade; however, failure to attend class will almost certainly guarantee poor performance on exams and assignments.

-If you do not understand something, then find-out! Come and see me, ask questions, do not wait until it is too late.

-All written work must be typed. Assignments will be assessed a 25% penalty/day late. No make-up exams will be given, unless arrangements are made prior to the exam or verifiable medical excuse is provided.

-You are responsible for making yourself aware of and understanding the policies and procedures in the Undergraduate and Graduate Catalogs that pertain to Academic Honesty. These policies include cheating, fabrication, falsification and forgery, multiple submission, plagiarism, complicity and computer misuse. [The policies can be found at www.wmich.edu/catalog under Academic Policies, Student Rights and Responsibilities.] If there is

reason to believe you have been involved in academic dishonesty, you will be referred to the Office of Student Conduct. You will be given the opportunity to review the charge(s). If you believe you are not responsible, you will have the opportunity for a hearing. You should consult with me if you are uncertain about an issue of academic honesty prior to the submission of an assignment or test.

(The Code of Honor passed by the Faculty Senate in November 2004 and administration in December 2004, can also be found at www.wmich.edu/catalog.)