

North Central

MICHIGAN COLLEGE

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NCMC MASTER COURSE SYLLABUS

Last Date Revised: 11/12/04

DIVISION/AREA Health and Human Services

DEPARTMENT: EMS/Allied Health

DIVISION DIRECTOR:

ORIGINATOR: Larry Hansen

DEAN OF INSTRUCTION: Timothy Dykstra, Ph.D.

TOTAL HOURS OF INSTRUCTION: LECTURE:4 LAB:0 TOTAL CONTACT HOURS:

COURSE NUMBER: AH 218

CREDIT HOURS: 4

COURSE TITLE: EMS Cardiology

TRANSFERABLE YES NO TO:

PREREQUISITE(S)/COREQUISITE(S)/ADVISORY: Completion of first year of paramedic courses with a C or above. .

CATALOG DESCRIPTION: Introduction to basic cardiac monitoring and dysrhythmia recognition. Review of anatomy and physiology of the cardiovascular system, principles of electrophysiology and ECG interpretation and dysrhythmia management of life threatening dysrhythmias will be emphasized. Coronary artery disease, myocardial infarction and other emergencies will be addressed.

GENERAL EDUCATION OUTCOMES: Think critically and analytically. Independently acquire knowledge.

COURSE OBJECTIVES & OUTCOMES: Students will meet the United States of Transportation National Highway Traffic Safety Administration Paramedic: National Standard Curriculum objectives which can be found at <http://www.nhtsa.dot.gov/people/injury/ems/nsc.htm>. and in the North Central Michigan College EMS Student Handbook.

METHODS OF INSTRUCTION: Lecture, discussion, demonstration, case studies, evaluation of EKG strips

METHODS OF EVALUATION: Quizzes, exams, EKG rhythm identification worksheets.

REQUIRED TEXTS: Basic Dysrhythmias text

Brady's Paramedic Care: Principles and Practice Volume 3

Companion Web site : <http://www.prenhall.com/paramedic/>

OPTIONAL SUPPLEMENTARY MATERIALS:

Reasonable accommodations may be provided for students with documented physical, sensory, cognitive, systemic, and/or psychiatric disabilities. Please contact Learning Support Services at (231) 348-6617 to arrange services for this course.

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TIME ALLOWANCE AND SEQUENCE OF INSTRUCTION:

A minimum of 60 contact hours covering content prescribed by the MDOT National Standard Curriculum on the following topics will be presented.

1. Anatomy and physiology of the cardiovascular system
2. Principles of electrophysiology of the heart
3. EKG interpretation
4. Dysrhythmia management
5. Sinusatrial dysrhythmias
6. Junctional dysrhythmias
7. Atrial dysrhythmias
8. Ventricular dysrhythmias
9. Heart block
10. Coronary artery disease
11. Myocardial infarction
12. Cardiovascular emergencies

APPROVED FOR ADOPTION BY THE CRD/AP COMMITTEE ON _____