Maui Community College Course Outline Fall 2000

1.	Course	Title:

NURS 261

Advanced Electrocardiogram Interpretation

Number of credits:

One (1)

Abbreviated Course Title:

Adv ECG Interp

Date of Outline:

August 20, 2000

2. Course Description:

Develops advanced nursing theory related to interpretation of 12-lead ECG. Focuses on ECG changes which occur with acute coronary syndrome, myocardial infarction, axis deviation, artificial pacemakers, defibrillation and

cardioversion..

3. Contact Hours Per Week:

One (1) Lecture, on-line, as needed

4. Prerequisites:

Previous or concurrent enrollment in NURS 259.

Corequisites:

None

Recommended Preparation:

None

5. General Course Objectives:

Focuses on the knowledge and skill needed by nurses providing care for cardiac clients in coronary, intensive care or emergency units. Develops advanced knowledge 12 lead

electrocardiogram interpretation.



Approved by ______Date_

6. Specific Course Competencies:

Upon completion of this course the learner will:

- 1. Delineate the electromechanics of the cardiac muscle.
- 2. Evaluate 12-lead Electrocardiograms and identify abnormalities.
- 3. Describe the ECG changes which occur with acute coronary syndrome and myocardial infarction and identify surface area involved.
- 4. Identify ECG changes indicating myocardial ischemia and describe appropriate therapeutic actions.
- 5. Describe the ECG changes that occur with axis deviation and indicate origin of these changes.
- 6. Describe ECG changes which occur with electrical stimulation therapies; including artificial pacemakers.
- 7. Evaluate pacemaker function and describe therapeutic management of pacemaker complications.
- 8. Discuss defibrillation and cardioversion as treatment modalities.
- 9. Utilize on-line computer technology to access information, collaborate with colleagues, and complete evaluation procedures.

7. Recommended Course Content

1 week:

Introduction, Course Requirements, Cardiac Conduction System

1 week:

Electromechanics of Cardiac Muscle

1 week:

Obtaining a 12-Lead ECG, Normal 12-Lead ECG

1 week:

Normal Axis & Axis Deviation

1 week:

Acute Coronary Syndrome

1 week:

Diagnosis of Myocardial Infarction

1 week:

Complications and Treatment for Myocardial Infarction

1 week:

Arrhythmogenesis

1 week:

Bundle Brance Block & Hemiblock

1 week

Preexcitation Syndromes and ECG Interpretation

1 week:

Electrical Stimulation-Pacemakers

1 week:

Electrical Stimulation-Defibrillation, Cardioversion, & Ablation

1 week:

Chamber Enlargement

1 week:

Advance Cardiac Life Support

1 week:

Evaluation

8. Recommended Course Requirements

On-line discussion of ethical issues and clinical situations

On-line quizzes

Mid-term Examination

Final Examination

9. Text and Materials

An appropriate text (or texts) and materials will be chosen at the time the course is offered. Examples:

Text:

Conover, Mary Bourdreau: <u>Understanding Electrocardiography</u>, C.V. Mosby Company, St.

Louis, 1996.

Materials: WEBCT Course, Internet sites, and on-line materials provided by the instructor

10. Evaluation and Grading

Factors for grading may include, but are not limited to, the following:

Weekly on-line quizzes 40% Mid-Term Exam-25%

Final Examination 30% On-line discussion and postings 5%

11. Methods of Instruction

34 ... 3...

Instructor Lectures via Cable TV Guest lecturers via Cable TV Audio, visual, or computer presentations On-line quizzes On-line chat and e-mail