

## Fall 2010 Course Schedule

Course Title	Course #	Date/Time	Cost	Instructor
Cardiac & Pulmonary Assessment	#73436	August 31, 2010 8:00 am – 4:00 pm	\$58	MJ Potratz
Cardiac Dysrhythmias	#73573	Sept 7, 14, 21, 28, Oct 5 8 am – 11:30 am	\$135	MJ Potratz
Cardiac Physiology & Angina	#73437	September 7, 2010 12:30 pm – 4:00 pm	\$32	MJ Potratz
Pacemakers	#73439	October 5, 2010 12:30 pm – 4:00 pm	\$32	MJ Potratz
Shock	#73440	October 12, 2010 8:00 am – 4:00 pm	\$58	MJ Potratz
Hemodynamics	#73441	October 19, 2010 8:00 am – 4:00 pm	\$58	MJ Potratz
Pulmonary Physiology	#73471	October 26, 2010 8:00 am – 11:30 am	\$32	MJ Potratz
Acid/Base Balance	#73442	October 26, 2010 12:30 am – 4:00 pm	\$32	MJ Potratz
Respiratory Disorders	#73443	November 2, 2010 8:00 am – 4:00 pm	\$58	MJ Potratz Teresa Gavin
Mechanical Ventilation	#73444	November 9, 2010 8:00 am – 4:00 pm	\$58	MJ Potratz Teresa Gavin
Renal Disorders	#73459	November 16, 2010 8:00 am – 4:00 pm	\$58	MJ Potratz
Gastrointestinal Disorders	#73460	November 30, 2010 8:00 am – 4:00 pm	\$58	MJ Potratz
Acute Changes on 12 Lead ECG	#73462	December 7, 2010 8:00 am – 11:30 am	\$32	MJ Potratz
Neurological Assessment	#73463	December 7, 2010 12:30 pm – 4:00 pm	\$32	P Normandin
Advanced 12 Lead EKG – Day I *(WED)	#73466	December 8, 2010 8:00 am – 4:00 pm	\$75	MJ Potratz
Neurological Disorders	#73469	December 14, 2010 8:00 am – 4:00 pm	\$58	P Normandin
Advanced 12 Lead EKG – Day II*(WED)	#73470	December 15, 2010 8:00 am – 4:00 pm	\$75	MJ Potratz

**All am sessions held at NIACC, CB 118 and all pm sessions held at NIACC, CB 119.**

**Refund Information** – If you are unable to attend, you must contact the North Iowa Area Community College before the course start date to receive a 100% refund. If you do not notify NIACC, no refund will be issued. Call 641-422-4358 or 1-888-GO-NIACC, ext. 4358 to request a refund.

### CEU CREDIT

#### DAY LONG PROGRAMS:

Nursing – 0.7 CEUs  
EMS – 7.0 CEHs

#### HALF DAY PROGRAMS:

Nursing – 0.35 CEUs  
EMS – 3.5 CEHs

#### CARDIAC DYSRHYTHMIAS:

Nursing – 1.75 CEUs  
EMS – 17.5 CEHs

### REGISTRATION

To attend in Mason City, contact NIACC Continuing Education at 641-422-4358 or 1-888-GO NIACC (1-888-466-4222), ext. 4358.

#### NIACC is:

- an Iowa Board of Nursing approved provider for continuing education for licensed nursing personnel and has been issued Provider #3.
- A State Dept. of Health Emergency Medical Services approved sponsor of continuing education programs for Basic & Advanced EMS personnel Sponsor.

If less than 3 are registered for the Mason City site one week prior to the start date of each module, this ICN site will be cancelled. Only those modules listed will be offered at the Mason City site. To attend modules not offered in Mason City, call Jamie Wheelock at 515-964-6665.

North Iowa Area Community College is committed to the policy that all persons shall have access to its programs, facilities, and employment without discrimination based upon race, religion, color, creed, gender, gender identity, sexual orientation, national origin, marital status, age, or physical or mental disability.

# Management of Patients Across the Continuum

## Fall 2010

### Continuing Education Credit:

**Day Long Programs**  
**0.7 CEUs**

**Half Day Programs**  
**0.35 CEUs**

**Cardiac Dysrhythmias**  
**1.75 CEUs**

## **DESCRIPTION:**

This course is divided into modules designed for the health care professional who is taking care of patients across the continuum in multiple settings, such as the emergency department, critical care unit, medical/surgical units and home care. The **best instructors** from across the state will be providing the education. Participants may come to one or all of the classes depending on their learning needs. The course will provide **extensive handouts, up-to-date information & CEUs** in a **cost-effective** delivery system over the fiber optics network. Competency testing is also available.

## **Delivery:**

This is a live broadcast via the ICN, Iowa Communications Network, on which students can interact with the instructors & participants from other Iowa sites, as if in the same classroom. This program has been developed by the Iowa Critical Care Nursing Education Committee & is sponsored by Des Moines Area Community College in cooperation with the other Iowa Community Colleges.

## **Faculty:**

M.J. Potratz, RN, MSN, CCRN  
Critical Care Educator  
Central Iowa Health System  
Des Moines, Iowa

Teresa Gavin, RN, MSN, CCRN  
Critical Care Specialist  
Allen Memorial Hospital  
Waterloo, Iowa

Pam Normandin, RN, MSN, CCRC  
Clinical Research Specialist  
Clinical Trials Office  
Iowa Health-Des Moines

### **Module 1 – Cardiac & Pulmonary Assessment**

1. Identify the characteristics & etiologies of normal and abnormal heart sounds.
2. Differentiate signs and symptoms of arterial and venous vascular insufficiency.
3. Discuss the problems in taking a blood pressure such as cuff size, patient position and presence of hypertension.
4. State the characteristics of normal and abnormal lung sounds.
5. Explain how to do a complete assessment of the thorax.

### **Module 2 – Cardiac Dysrhythmias**

1. Identify the normal PR interval, QRS, and QT interval.
2. Interpret 22 dysrhythmias. Discuss the assessment of the patient with each dysrhythmia.
3. Describe current treatment protocols for each dysrhythmia, including the actions and side effects of the medication.

### **Module 3A – Cardiac Physiology and Angina**

1. Define cardiac output, cardiac index, ejection fraction, preload and afterload.
2. Describe the determinants of cardiac output.
3. Discuss the etiology, clinical picture, nursing and medical management of angina.

### **Module 5 - Shock**

1. Discuss the pathophysiology and compensatory mechanisms of the following types of shock: hypovolemic, septic, neurogenic, and anaphylactic.
2. Correlate the assessment findings in shock with the stage of shock.
3. Discuss the nursing and medical management for all types of shock.

### **Module 6 – Pulmonary Physiology**

1. Discuss the mechanics of inspiration and expiration.
2. Describe airway resistance, compliance, dead space and shunting.
3. Discuss how the respiratory center in the brain stem functions.
4. Define lung volumes and capacities.

### **Module 7 – Acid/Base Balance**

1. Define acidosis and alkalosis.
2. Discuss compensation for changes in acid/base balance.

3. Interpret arterial blood gases.
4. Discuss the etiology, clinical picture and treatment for acid-base disorders.

### **Module 8 – Respiratory Disorders**

1. Relate the etiology, clinical picture, nursing and medical management of acute respiratory failure, asthma, COPD, pulmonary emboli, pneumonia, and pulmonary aspiration.
2. State the clinical picture and treatment for chest injuries, including flail chest, pneumothorax and lung contusions.
3. Discuss the care of the patient with a chest tube.

### **Module 9 – Mechanical Ventilation**

1. Define types and modes of ventilation.
2. Discuss the care of the patient with artificial airways.
3. Describe the care of the patient requiring mechanical ventilation.
4. Discuss the etiology, clinical picture and care of the patient with adult respiratory distress syndrome.

### **Module 10 - Pacemakers**

1. Discuss selected modes of temporary and permanent pacing.
2. Analyze rhythm strips for pacemaker function.
3. Describe the care of the patient with a pacemaker.

### **Module 12 – Gastrointestinal Disorders**

1. Describe the assessment of the abdomen.
2. Discuss the etiology, clinical picture and nursing and medical care for the patient with acute pancreatitis, cirrhosis, hepatic failure and GI bleeding.
3. Correlate the clinical picture of the patient presenting with an acute abdomen.
4. Discuss the care of the patient with enteral feedings and TPN.

### **Module 13 – Neurological Assessment**

1. Discuss basic anatomy related to neurological disorders.
2. Describe a brief neurological assessment.
3. Differentiate normal and abnormal findings of neurological assessment.
4. Describe the use of the Glasgow Coma Scale.

### **Module 14 – Neurological Disorders**

1. Review aspects of neurophysiology.

2. Discuss the etiology, clinical picture and nursing and medical management for the patient with increased intracranial pressure.
3. Describe the etiology and emergent care for the patient with head and spinal trauma.
4. Discuss the etiology, clinical picture and nursing and medical management for patients with stroke and meningitis.

### **Module 15 – Renal Disorders**

1. Discuss assessment of the renal system and the significance of lab and diagnostic studies in the renal patient.
2. Describe the major functions of the kidney.
3. Describe the etiology, clinical picture and care of the patient with acute and chronic renal failure.
4. Compare and contrast modes of dialysis.

### **Module 17 – Hemodynamics**

1. Discuss the indications, nursing care and complications from a central venous catheter, arterial line and pulmonary artery catheter.
2. Describe the steps in troubleshooting hemodynamic lines.
3. Correlate abnormal hemodynamic values with the clinical picture of the patient.
4. Identify waveforms from all types of hemodynamic lines.

### **Module 18 – Acute Changes on 12 Lead ECG**

1. State the normals for each of the 12 leads.
2. Describe the interpretation of acute ischemic changes on the ECG.

### **Module 19 – Advanced 12 Lead EKG Interpretation Day I**

1. Identify the electrode placement and normal configuration for each of the 12 leads.
2. Determine the electrical axis.
3. Interpret the changes of ischemia, injury and necrosis of ST elevation MI.
4. Identify the changes of non ST elevation MI.
5. Differentiate bundle branch blocks, aberration and Torsades de points.

### **Day II**

1. Identify the electrode placement and normal configuration for each of the 12 leads.
2. Interpret the changes of hemiblock on the EKG.
3. Discuss the criteria for the diagnosis of pre-excitation, pericarditis, hypertrophy, and electrolyte and drug changes on EKG.
4. Describe the characteristics of AV dissociation and SA blocks.