

# Hagerstown Community College

## Master Syllabus

**COURSE:** 164 Cardiology and Cardiovascular Diseases

**DATE:** Spring 2020

**INSTRUCTOR:** Dave Chisholm

**COURSE DESCRIPTION:** This course introduces students to cardiac electrophysiology, electrocardiography interpretation and the assessment and management of patients with cardiovascular emergencies. Total of 45 hours of lecture. Course fee required.

**TEXTBOOK:** Paramedic Care, Principles and Practice, 5th Edition, Volume 3, Bryan Bledsoe, 2017 Pearson.

### STUDENT LEARNING OUTCOMES:

- Relate anatomy and physiology of the cardiovascular system to cardiac rhythm generation and to the pathophysiology and assessment of patients with cardiac disorders
- Demonstrate proper detailed assessment of the cardiac patient.
- Demonstrate the steps in BLS and ALS interventions used in management of cardiac disorders.
- Demonstrate applied knowledge of Maryland State Drug Protocols for dysrhythmias and cardiovascular complaints.
- Perform ECG Monitoring and Rhythm Strip Analysis for most common dysrhythmias.
- Obtain a 12-Lead ECG and identify STEMI patients.
- Demonstrate the safe administration of medications allowed in your scope of practice under the supervision of a lab instructor or clinical preceptor, including medications administered by percutaneous, pulmonary, enteral, and parenteral routes.

### MINIMUM CLOCK HOURS REQUIRED FOR THIS COURSE

| <b>Activity</b>                | <b>Direct Faculty Instruction<br/>In-Class 37.5 Hours<br/>Required</b> | <b>Student Work outside of the<br/>Classroom 75 hours<br/>required</b> |
|--------------------------------|--|--|
| In-class "lecture"             | 37.5 hours   |  |
| Reading chapters               |  | 26 hours   |
| Quiz/activity for each chapter | Included in lecture time   | 13 hours prep  |
| 13 lecture exams               | Included in lecture time   | 26 hours exam prep   |

| <b>Activity</b>                                    | <b>Direct Faculty Instruction<br/>In-Class 37.5 Hours<br/>Required</b> | <b>Student Work outside of the<br/>Classroom 75 hours<br/>required</b> |
|--|--|--|
| Cumulative final exam<br>(Academic Testing Center) | Included in lecture time   | 10 hours exam prep   |
| <b>Total Hours</b>                                 | <b>37.5 hours</b>  | <b>75 hours</b>  |

*If the course is offered in different formats such as hybrid, on-line, face-to-face a separate “Minimum clock hours” table is required for each format.*

**Services for Students with Disabilities:** Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at [dss@hagerstowncc.edu](mailto:dss@hagerstowncc.edu) or at 240-500-2530.