

Piedmont Technical College Course Syllabus

COURSE INFORMATION

Course Prefix/Number: CVT 112

Title: Cardiovascular Principles

Responsible Division: Health Science

Last Day to Withdraw from this Course: For the last date to withdraw from this course, consult the current *Student Calendar*.

Course Description:

For course, credit hour, pre-requisite(s) and co-requisite(s) information, visit the Detailed Course Information page: www.ptc.edu/courses/CVT112.

Textbook and Other Materials:

For textbook information and additional required and/or supplemental materials, visit the [college bookstore](http://www.ptc.edu/bookstore) (www.ptc.edu/bookstore).

Proctored Examinations:

Proctored examinations for distance learning courses taken at non-PTC campuses may require a proctoring fee for each exam taken.

COURSE POLICIES

Course policies are available online through the *Academic Catalog* and *Student Handbook*. Visit the [Course Policies page](http://www.ptc.edu/syllabus/policies) (www.ptc.edu/syllabus/policies) for a detailed list of important policies and more information.

GRADE POLICY

Detailed grading policy information can be found on the [Grading Policy webpage](http://www.ptc.edu/grading-policy) (http://www.ptc.edu/grading-policy). Final grade appeal information is available in the [Academic Catalog](http://www.ptc.edu/catalog/) (http://www.ptc.edu/catalog/).

ACCOMMODATIONS

Accommodations for ADA:

Information is available on the [Student Disability Services webpage](http://www.ptc.edu/ada) (<http://www.ptc.edu/ada>).

RATIONALE

Why do I need this course?

Recognize the importance of cardiovascular assessment techniques and apply the techniques in order to best care for all of your patients especially those with cardiovascular impairment.

PROGRAM INFORMATION

For program information including required courses, program learning outcomes, gainful employment information and advisement information, refer to the Academic Program webpage. Go to [Academics](http://www.ptc.edu/academics) (<http://www.ptc.edu/academics>), select your program, and then select Credentials Offered.

COURSE STUDENT LEARNING OUTCOMES

Upon successful completion of this course and/or clinical, each student will be able to:

- Identify basic cardiac anatomy.
- Explain basic cardiac function and basic hemodynamic principles.
- Discuss the phases of the cardiac cycle to include electro-mechanical events
- Describe intracardiac pressures and saturation rates.
- Differentiate between pulmonary and systemic circulation.
- Discuss the generation of normal heart sounds and how heart murmurs indicate different cardiac pathological processes.
- Explain basic electrophysiology principles and the conduction system.
- Analyze and interpret cardiac rhythms/dysrhythmias and respond appropriately.

GENERAL EDUCATION COMPETENCIES

Piedmont Technical College General Education Competencies for All Graduates:

This course may address one or more of the following General Education Competencies (assessment will be stated when applicable):

Communicate effectively.

Assessment:

N/A

Apply mathematical skills appropriate to an occupation.

Assessment:

Program specific equations and calculations will be assessed on unit tests.

Employ effective processes for resolving problems and making decisions.

Assessment:

Interpretation of dysrhythmias on ECG with knowledge of appropriate clinical response.

Demonstrate the basic computer skills necessary to function in a technological world.

Assessment:

Students will perform electrocardiograms for competency evaluations.

To validate proficiency in the general education competencies, students in some programs will be tested using Work Keys.