| **PROFESSOR:** |  |
| --- | --- |
| **OFFICE LOCATION:** |  |
| **OFFICE HOURS:** |  |
| **PHONE NUMBER:** |  |
| **E-MAIL:** |  |
| **SEMESTER:** |  |
| **DELIVERY METHOD:** |  |

# COURSE NUMBER AND TITLE, CATALOG DESCRIPTION, CREDITS:

## CVT 1000 Intro to Cardiovascular Technology (3 Credits)

## This course provides an orientation to and overview of the field of Cardiovascular Technology. Students will be introduced to the basics of medical terminology and applied cardiovascular anatomy and physiology.

## PREREQUISITES FOR THIS COURSE:

Admission to the Cardiovascular Technology, AS program

### CO-REQUISITES FOR THIS COURSE:

CVT 1200 and CVT 1800C

## GENERAL COURSE INFORMATION:

Topic Outline

* The Cardiovascular Technologist profession
* Cardiovascular and pulmonary systems terminology and abbreviations
* Anatomy and physiology associated with cardiovascular and pulmonary systems
* Gas laws and cardiopulmonary technology

## ALL COURSES AT FLORIDA SOUTHWESTERN STATE COLLEGE CONTRIBUTE TO THE GENERAL EDUCATION PROGRAM BY MEETING ONE OR MORE OF THE FOLLOWING GENERAL EDUCATION COMPETENCIES:

**C**ommunicate clearly in a variety of modes and media.

**R**esearch and examine academic and non-academic information, resources, and evidence.

**E**valuate and utilize mathematical principles, technology, scientific and quantitative data.

**A**nalyze and create individual and collaborative works of art, literature, and performance.

**T**hink critically about questions to yield meaning and value.

**I**nvestigate and engage in the transdisciplinary applications of research, learning, and knowledge.

**V**isualize and engage the world from different historical, social, religious, and cultural approaches.

**E**ngage meanings of active citizenship in one’s community, nation, and the world.

**A. General Education Competencies and Course Outcomes**

1. Listed here are the outcomes/objectives assessed in this course which play an integral part in the student’s general education along with the general education competency they support.

General Education Competency: **Investigate**

Course Outcomes or Objectives Supporting the General Education Competency:

* Students will be able to identify normal cardiac and vessel anatomy, as well as abnormal cardiac and vessel anatomy.

2. Listed here are the outcomes/objectives assessed in this course which play a supplemental role in the student’s general education along with the general education competency they support.

General Education Competency: **Think**

Course Outcomes or Objectives Supporting the General Education Competency:

* Students will demonstrate knowledge of the cardiopulmonary system by recognizing heart and lung anatomy.
* Students will demonstrate knowledge of gas exchange and its relation to the cardiac cycle.

**B. Other Course Objectives/Standards**

The student will gain an understanding of the cardiovascular technology field, as well as cardiovascular anatomy and physiology. Upon completion of this course, students will be able to:

* Identify the job functions of a Cardiovascular Technologist.
* Recognize the national organizations, accrediting agencies and national examination bureau for Cardiovascular Technology.
* Define common terminology and abbreviations used in medicine as it pertains to the cardiovascular and pulmonary systems.
* Identify cardiovascular anatomy.
* Discuss the role of fetal circulation in congenital heart defects.
* Describe the function of cardiovascular anatomical structures and physiology.
* Identify pulmonary anatomy.
* Define lung volumes and capacities.
* Explain the concept of ventilation in terms of pleural and pulmonary pressure changes and gas flow.
* Label and describe the various histological layers of blood vessels.
* Identify the blood vessels of the human body.
* Identify the flow of blood from the right heart to the left heart.
* Define action potential as it relates to the cardiac cycle.
* Analyze a standard normal ECG in relation to cardiac electrical conductance.
* Explain basic gas laws as they pertain to ventilation and gas transport.
* Define preload, afterload, and cardiac output.

## DISTRICT-WIDE POLICIES:

### PROGRAMS FOR STUDENTS WITH DISABILITIES

Florida SouthWestern State College, in accordance with the Americans with Disabilities Act and the College’s guiding principles, offers students with documented disabilities programs to equalize access to the educational process. Students needing to request an accommodation in this class due to a disability, or who suspect that their academic performance is affected by a disability should contact the Office of Adaptive Services at the nearest campus. The office locations and telephone numbers for the Office of Adaptive Services at each campus can be found at <https://www.fsw.edu/adaptiveservices>.

### REPORTING TITLE IX VIOLATIONS

Florida SouthWestern State College, in accordance with Title IX and the Violence Against Women Act, has established a set of procedures for reporting and investigating Title IX violations including sexual misconduct. Students who need to report an incident or need to receive support regarding an incident should contact the Equity Officer at [equity@fsw.edu](mailto:equity@fsw.edu). Incoming students are encouraged to participate in the Sexual Violence Prevention training offered online. Additional information and resources can be found on the College’s website at <https://www.fsw.edu/sexualassault>.

## REQUIREMENTS FOR THE STUDENTS:

List specific course assessments such as class participation, tests, homework assignments, make-up procedures, etc.

## ATTENDANCE POLICY:

The professor’s specific policy concerning absence. (The College policy on attendance is in the Catalog and defers to the professor.)

## GRADING POLICY:

Include numerical ranges for letter grades; the following is a range commonly used by many faculty:

| **Grade Percent** | **Letter Grade** |
| --- | --- |
| 90 - 100 | A |
| 80 - 89 | B |
| 70 - 79 | C |
| 60 - 69 | D |
| Below 60 | F |

(Note: The “incomplete” grade [“I”] should be given only when unusual circumstances warrant. An “incomplete” is not a substitute for a “D,” “F,” or “W.” Refer to the policy on “incomplete grades.)

## REQUIRED COURSE MATERIALS:

(In correct bibliographic format.)

## RESERVED MATERIALS FOR THE COURSE:

Other special learning resources.

## CLASS SCHEDULE:

This section includes assignments for each class meeting or unit, along with scheduled Library activities and other scheduled support, including scheduled tests.

## ANY OTHER INFORMATION OR CLASS PROCEDURES OR POLICIES:

(Which would be useful to the students in the class.)