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

## COURSE NUMBER AND TITLE, CATALOG DESCRIPTION, CREDITS:

## CVT 2420 Invasive Cardiology I (3 Credits)

This course introduces the student to the specific procedures performed in the cardiac catheterization laboratory and the use of the resulting data for patient diagnosis. Additional topics include: aseptic techniques, sterilization, patient assessment, radiography, pharmacology, cardiac wave forms, coronary artery anatomy, equipment and tools utilized in cardiac catheterization, hemodynamic data and analysis, right and left heart catheterizations, and complications and treatments that may occur during cardiac catheterization procedures. Students will practice cardiac catheterization procedures in the Cardiac Catheterization Lab on campus.

## PREREQUISITES FOR THIS COURSE:

CVT 1000 and CVT 1200

### CO-REQUISITES FOR THIS COURSE:

CVT 1801C and CVT 2620

## GENERAL COURSE INFORMATION:

Topic Outline:

Sterilization principles, sterile technique

Infection, infectious diseases, and infection control

X-ray theory, systems, and safety

X-ray techniques and positioning

Cine film and film processing

High pressure injectors

Patient assessment – pre- and post-catheterization skills and duties

Cardiac angiography and coronary artery anatomy

Pressure monitoring, measurement, and interpretation

Pharmacology principles

Equipment and supplies utilized in cardiac catheterization

Calculations and data analysis (angiograms, waveforms, and hemodynamics)

Cardiac disease states

Cardiac catheterization techniques, right and left heart catheterization procedures

Emergency procedures

Interventional modalities

Catheterization laboratory structure

Cardiac catheterization lab hemodynamic calculations

Cardiac catheterization lab pharmacology and drug calculations

Percutaneous coronary interventional procedures

Cardiac pacemakers and Implantable Cardioverter Defibrillators (ICDs)

Electrophysiology studies

## 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 course outcomes/objectives assessed in this course which play an integral part in contributing to the student’s general education along with the general education competency it supports.

General Education Competency: **Investigate**

Course Outcomes or Objectives Supporting the General Education Competency Selected:

* Identify normal hemodynamics and coronary artery anatomy.
* Identify pathological results.
* Discuss the implications and treatments for abnormal hemodynamics and coronary angiograms.

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

General Education Competency: **Think**

Course Outcomes or Objectives Supporting the General Education Competency Selected:

* Demonstrate knowledge of the common cardiac medications including indications, contraindications, actions, risks, benefits, dosages and basic drug calculations as used in the cardiovascular catheterization laboratories.

General Education Competency: **Evaluate**

Course Outcomes or Objectives Supporting the General Education Competency Selected:

* Demonstrate knowledge required to correctly perform right and left heart cardiac catheterization procedures and to evaluate those results during simulated procedures in the cardiovascular catheterization laboratory.

## 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>.

1. **REQUIREMENTS FOR THE STUDENTS:**

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

1. **ATTENDANCE POLICY:**

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

1. **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.)

1. **REQUIRED COURSE MATERIALS:**

(In correct bibliographic format.)

1. **RESERVED MATERIALS FOR THE COURSE:**

Other special learning resources.

1. **CLASS SCHEDULE:**

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

1. **ANY OTHER INFORMATION OR CLASS PROCEDURES OR POLICIES:**

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