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

1. **COURSE NUMBER AND TITLE, CATALOG DESCRIPTION, CREDITS:**

**RET 4715 ADVANCED NEONATAL MEDICINE (3 CREDITS)**

The Principles that underlie fetal developmental and congenital pathology with an emphasis on advanced practice for neonatology and cardiac care are discussed and analyzed. The practice issues for the Neonatal intensive care unit and Pediatric Cath. Lab are also reviewed.

1. **PREREQUISITES FOR THIS COURSE:**

**Admission into the BAS Cardiopulmonary Sciences Program; Prior to enrolling in any upper level course (course number beginning with a 3 or 4), students must complete the following courses with a grade of “C” or better: ENC 1101 English Composition I, ENC 1102 English Composition II, and three semester hours of college level mathematics; or permission from the appropriate academic dean.**

**CO-REQUISITES FOR THIS COURSE:**

None

1. **GENERAL COURSE INFORMATION:** Topic Outline.

* Fetal Development
* Antenatal Assessment
* Neonatal, Pediatric Assessment and Resuscitation
* Hemodynamic Monitoring of Neonatal and Pediatric Patient
* Administration of Gas mixtures / Oxygen therapy
* Bronchial Hygiene therapy
* Non invasive mechanical Ventilation of Newborn and Pediatric Patient
* Invasive mechanical Ventilation of Newborn and Pediatric Patient
* ECMO/ Thoracic organ transplantation
* Common disorders of the Newborn and Pediatric patient
* Congenital Heart disease
* Congenital Airway Anomalies
* Surgical disorders in Newborn and Child
* PALS/ NRP

1. **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: **Analyze**

Course Outcomes or Objectives Supporting the General Education Competency Selected:

* Students will be able to complete the appropriate calculations and measurements required for the assessment of premature neonatal, full-term newborn and children patients
* Case Study Analysis as a group Discussion for APGAR scoring methodologies will demonstrate competence for the analysis of premature neonatal, full-term newborn and pediatric patients
* Students will be able to interpret a complete hemodynamic profile of a pediatric patient and to describe invasive, semi-invasive and noninvasive techniques for monitoring cardiac output and index in a pediatric patient.
* Individual Case Study Analysis will be completed to reflect the student’s ability to analyze invasive, semi-invasive and noninvasive techniques for monitoring cardiac output and index in a pediatric patient.

General Education Competency: **Research**

Course Outcomes or Objectives Supporting the General Education Competency Selected:

* Students will demonstrate the ability to describe and analyze for efficacy, appropriate Neonatal and Pediatric interventions that will include Oxygen administration, Aerosol Therapy, Airway clearance Therapy, Mechanical Ventilation, ECMO, Nitric Oxide Therapy assessed through quizzes at regular intervals.
* Students will be able to accurately compare and contrast the relevant cardiovascular and pulmonary congenital anomalies; analyze the pathophysiology underlying common infant pulmonary disorders; recognize, describe the surgical disorders and the neuromuscular diseases in newborn and child
* An assigned research paper will be utilized as an assessment of specific Cardiovascular and pulmonary congenital anomalies.

1. **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 <http://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 <http://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:

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.)