## NEW COURSE PROPOSAL FORM

**TO:** curriculum COMMITTEE

**ACADEMIC AREA:** HEALTH PROFESSIONS

**PROPOSEd by**: Dr. J. B. Elsberry / Dr. R. innocent

**PRESENTER:** Dr. M. Lewis

**DATE:** 1/14/2011

**COURSE PREFIX, NUMBER AND TITLE:**

RET 4715 ADVANCED NEONATAL MEDICINE.

### SECTION I

**COURSE INFORMATION: TYPE iN THE APPROPRIATE INFORMATION FOR EACH ITEM:**

**DEPARTMENT:** Health Professiojs—Cardiopulmonary Sciences

**COURSE PREREQUISITE(S):** Admission to the CPS Program

**MINIMUM GRADE OF prereqUISITE(s):** C

**COURSE COREQUISITE(S):** None

**COURSE CREDITS OR CLOCK HOURS:** 3 credits

**credit type:** COLLEGE CREDIT (TRANSFERABLE)

**CONTACT HOURS:** 3 contact Hours

**COURSE DESCRIPTION:**

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.

**GENERAL 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

**LEARNING OUTCOMES:**

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| **LEARNING OUTCOMES** | **ASSESSMENTS** | **GENERAL EDUCATION COMPETENCIES** |
| Students will be able to complete the appropriate calculations and measurements required for the assessment of premature neonatal, full-term newborn and children patients. | Students will demonstrate competency by successfully completing multiple choice and calculation quizzes and/or exams and/or by completing different scenarios with the SimNewB Neonatal Simulator and SimBaby Simulator. | QR |
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| 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. | Students will demonstrate competency by successfully completing multiple choice and/or quizzes and/or exams and completing different clinical simulations. | CT |
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| 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. | Students will demonstrate competency by successfully completing quizzes and/or exams. The student will be evaluated for therapeutic indication and decision making abilities using group discussion and clinical simulation. | CT |
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| 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  | Students will demonstrate competency by successfully completing multiple choice quizzes and/or exams. At least two patient case study presentations may be required |  |
| Students will be able to identify and to assess impending signs and symptoms of respiratory failure, circulatory compromise and cardiac arrest in the patient; to manage both basic and advanced neonatal resuscitation and advanced pediatric care. | Students will demonstrate competency by successfully completing multiple choice quizzes and/or exams. The student will be evaluated by demonstrating appropriate skills and cognitive knowledge during the practical evaluation stations with the SimNewB Neonatal Simulator and SimBaby Simulator | CT |

### SECTION II

**ICS CODE FOR THIS COURSE:** ADVANCED AND PROFESSIONAL - 1.11.12 - HEALTH PROFESSIONS

**IF YOU INTEND TO RESTRICT STUDENT REGISTRATION BASED ON THE STUDENTS’ MAJOR(S), ENTER ALL APPLICABLE MAJOR RESTRICTION CODE(S): BAS CPSC**

**GRADE MODE:** STANDARD GRADING

**IS THIS A GENERAL EDUCATION COURSE?** NO

**IS THIS A WRITING INTENSIVE COURSE?** NO

**iS THIS AN HONORS COURSE?** NO

**IS THIS A REPEATABLE COURSE?** NO

**IF SO, WHAT IS THE MAXIMUM NUMBER OF CREDITS A STUDENT CAN EARN FOR THIS COURSE?** 3

**DO YOU EXPECT TO OFFER THIS COURSE THREE TIMES OR LESS?** NO

**WILL THIS NEW COURSE HAVE AN IMPACT ON OTHER COURSES, PROGRAMS OR DEPARTMENTS?** NO

**eXPLAIN:**

this course is part of a baccalaureate program designed to articulate with two AS degrees-- Cardiovascular technology and respiratory Care.

**IF YES, HAVE YOU DISCUSSED THIS PROPOSAL WITH ANYONE (FROM OTHER DEPARTMENTS AND/OR PROGRAMS) REGARDING THE IMPACT? WERE ANY AGREEMENTS REACHED?**

**DO YOU ANTICIPATE THAT STUDENTS WILL BE TAKING ANY OF THE PREREQUISITES LISTED FOR THIS COURSE IN DIFFERENT PARTS OF THE SAME TERM?** YES

**IS ANY COREQUISITE LISTED ON THIS COURSE ALSO LISTED AS A COREQUISITE ON ITS PAIRED COURSE?** NO

### SECTION III

**PROVIDE JUSTIFICATION FOR CURRICULUM ACTION (OTHER EXPLANATORY INFORMATION):**

THIS COURSE REPRESENTS AN UPPER DIVISION, CORE COURSE, IN THE APPROVED BAS PROGRAM IN CARDIOPULMONARY SCIENCES.

**NOTE:**

CHANGES FOR THE UPCOMING FALL TERM MUST BE SUBMITTED AND APPROVED NO LATER THAN THE FEBRUARY CURRICULUM COMMITTEE MEETING PRIOR TO THE START OF THE NEXT ACADEMIC YEAR. CHANGES DURING MID-SCHOOL YEAR ARE NOT ALLOWED. EXTREME CIRCUMSTANCES WILL REQUIRE APPROVAL FROM THE VICE PRESIDENT OF ACADEMIC AND STUDENT AFFAIRS TO BEGIN IN THE SPRING TERM. THE PROPOSED CHANGES MUST BE PRESENTED AND APPROVED BY THE SEPTEMBER CURRICULUM COMMITTEE PRIOR TO THE SPRING SEMESTER.

**TERM IN WHICH PROPOSED ACTION WILL TAKE PLACE:** fall 2011

 APPROVED EFFECTIVE TERM

**FACULTY ENDORSEMENTS:**PLEASE SEPARATE FACULTY MEMBERS WITH A COMMA (,)



**DEPARTMENT CHAIR / PROGRAM COORDINATOR ENDORSEMENT:**

 01/07/2011

**ASSOCIATE / ACADEMIC DEAN ENDORSEMENT:**

 01/14/2011

**STUDENT ASSESSMENT COMMITTEE CHAIR ENDORSMENT:**

 01/21/2011

**DISTRICT DEAN OF INSTRUCTION ENDORSEMENT:**

 01/26/2011

AFTER REVIEWING AND SIGNING THIS PROPOSAL, THE DISTRICT DEAN WILL RETURN THE PROPOSAL TO THE DEPARTMENT CHAIR OR PROGRAM COORDINATOR WILL SUBMIT THE PROPOSAL TO THE VPASA OFFICE.

THE DEPARTMENT CHAIR/PROGRAM COORDINATOR WILL SEND THIS PROPOSAL ALONG WITH ANY OTHER PROPOSALS FROM HIS/HER DEPARTMENT BEING SUBMITTED FOR REVIEW BY THE CURRICULUM COMMITTEE TO THE STUDENT ASSESSMENT COMMITTEE FOR REVIEW. ONCE APPROVED BY THE STUDENT ASSESSMENT COMMITTEE, SUBMIT THE PROPOSAL(S) TO THE OFFICE OF THE VICE PRESIDENT OF ACADEMIC AND STUDENT AFFAIRS AT LEAST TWO FRIDAYS PRIOR TO THE NEXT SCHEDULED CURRICULUM COMMITTEE MEETING.

FOR MORE DETAILS, PLEASE REFER TO THE CURRICULUM COMMITTEE GUIDELINES, CURRICULUM PROCESS FLOW CHART AND THE CRITICAL DATES TABLE BY CLICKING CURRICULUM COMIITTEE ON THE FACULTY/STAFF LINK FROM THE EDISON HOMEPAGE (CLICK ON THE CURRICULUM PROCESS LINK).

REVISED: 8/25/10