## NEW COURSE PROPOSAL FORM

**TO:** CURRICULUM COMMITTEE

**ACADEMIC AREA:** HEALTH PROFESSIONS

**PROPOSEd by**: Dr. J. B. Elsberry

**PRESENTER:** Dr. M. Lewis

**DATE:** 9/9/2010

**COURSE PREFIX, NUMBER AND TITLE:** RET 4912 research methods  
  
SECTION I

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

**DEPARTMENT:** Health Professions—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 statistical analysis tools and organizational principles that underpin research practices for evidence-based medicine are surveyed. Specific literature-based examples are used to provide the basis for the presentation of research methods in clinical practice.

**GENERAL TOPIC OUTLINE:**

* Pubmed literature review
* Design of a clinical trial
* Analysis of cardiopulmonary journal articles
* Statistical methods for hypothesis testing
* Categorical research methods
* Anecdotal research methods
* Control and experimental cohorts in human subject research
* Analysis of cardiopulmonary instrument design and testing

**LEARNING OUTCOMES:**

TYPE IN ALL OF THE LEARNING OUTCOMES, ASSESSMENTS AND GEN ED COMPETENCIES AS THEY SHOULD BE DISPLAYED IN THE SYLLABUS

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| --- | --- | --- |
| LEARNING OUTCOMES | ASSESSMENTS | GENERAL EDUCATION COMPETENCIES |
| Analyze a research study using approved methodology employed in published cardiopulmonary journals | Oral presentation |  |
| Use online resources to produce a literature review for an assigned inquiry | Literature review | TIM |
| Evaluate the methods, statistical analysis and conclusions in a human patient subject study | Evaluation report | TIM,CT |
| Write a critique paper for a peer review journal human patient study with particular focus on the statistical methodology and the support of the stated conclusions | Journal article | COM, CT |
| Design a hypothetical evaluation to test a research hypothesis in a cardiopulmonary setting | Algorithmic grid |  |
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### 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):** BCPS

**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

eXAMPLE: CHM 2032 IS A COREQUISITE FOR CHM 2032L AND CHM 2032L IS A COREQUISITE FOR CHM 2032.

### 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.

**EXCEPTION:**   
COURSES PUBLISHED IN THE 2010-2011 CATALOG THAT ARE PENDING CURRICULUM APPROVAL WILL BE EFFECTIVE SPRING 2011.

**TERM IN WHICH PROPOSED ACTION WILL TAKE PLACE:** EXCEPTION Spring 2011

VPASA SIGNATURE (IF NECESSARY) TO APPROVE CURRICULUM ACTION MID-YEAR:

SPRING 2011



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



**DEPARTMENT CHAIR / PROGRAM COORDINATOR ENDORSEMENT:**

 9/22/2010

**ASSOCIATE / ACADEMIC DEAN ENDORSEMENT:**

 9/22/2010

**STUDENT ASSESSMENT COMMITTEE CHAIR ENDORSMENT:**

 9/20/2010

**DISTRICT DEAN OF INSTRUCTION ENDORSEMENT:**

 9/22/2010

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