

Nikou, Roshan

From: Graduate.Council.Web.Site@www.uky.edu
Sent: Tuesday, November 18, 2008 12:51 PM
To: Nikou, Roshan
Cc: Price, Cleo
Subject: Investigator Report

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AnyForm Document: <http://www.research.uky.edu/gc/GCInvestigatorReport.html>
AnyForm Server: www.uky.edu (/www/htdocs/AnyFormTurbo/AnyForm.php)
Client Address: 172.21.72.67

College/Department/Unit: = Course RSC 703

Category: = New

Date_for_Council_Review: = Dec. 4, 2008

Recommendation_is: = Approve

Investigator: = Brett Spear

E-mail_Address = bspear@uky.edu

1__Modifications: = None

2__Considerations: = Seems like a reasonable course that will fit in well with the expertise of course director, Dr. Chendil. It also seems likely an appropriate course for the new graduate program in reproductive sciences. There are two minor concerns. First, the lecture schedule is rudimentary but generally looks reasonable. Based on the number of topics being discussed, it seems that this will be more of an overview rather than an in-depth course.

Second, seven text books are recommended. This seems quite high, and it is hoped that the students are not truly required to obtain these but rather they would be made available (i.e., on reserve in the library).

3__Contacts: = None

4__Additional_Information: = None

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APPLICATION FOR NEW COURSE

1. Submitted by the College of Health Sciences Date: April 1, 2008

Department/Division proposing course: Clinical Sciences/Clinical & Reproductive Sciences

2. Proposed designation and Bulletin description of this course:

a. Prefix and Number RSC 703

b. Title Biology & Therapy of Reproductive Cancers

*If title is longer than 24 characters, write a sensible title (24 characters or less) for use on transcripts:

Biol. & Ther. of Repro Cancers

c. Courses must be described by at least one of the categories below. Include the number of actual contact hours per week for each category, as applicable.

- () CLINICAL () COLLOQUIUM () DISCUSSION () LABORATORY (3) LECTURE () INDEPEND. STUDY () PRACTICUM () RECITATION () RESEARCH () RESIDENCY () SEMINAR () STUDIO () OTHER - Please explain:

d. Please choose a grading system: [X] Letter (A, B, C, etc.) [] Pass/Fail

e. Number of credit hours: 3

f. Is this course repeatable? YES [] NO [X] If YES, maximum number of credit hours:

g. Course description:

The course will introduce students to fundamentals of biological and molecular events related to disease progression, and to current therapeutic modalities for the treatment of reproductive cancers. The course will include lectures for each topic area. In addition, there will be discussions and student presentations on related topics.

h. Prerequisite(s), if any:

Admission to the Ph.D. program in Reproductive Sciences, or consent of the instructor. Courses in cell biology, molecular biology and cancer therapy are helpful prerequisites.

i. Will this course be offered through Distance Learning? YES [] NO [X]

If YES, please circle one of the methods below that reflects how the majority of the course content will be delivered:

- Internet/Web-based Interactive video Extended campus Kentucky Educational Television (KET/teleweb) Other

Please describe "Other":

3. Teaching method: [X] N/A or [] Community-Based Experience [] Service Learning Component [] Both

4. To be cross-listed as: n/a Prefix and Number Signature of chair of cross-listing department

APPLICATION FOR NEW COURSE

5. Requested effective date (term/year): Spring / 2010
6. Course to be offered (please check all that apply): Fall Spring Summer
7. Will the course be offered every year? YES NO
If NO, please explain: _____
8. Why is this course needed?
Requirement for the curriculum in the proposed Ph.D. program in Reproductive Sciences.
-
9. a. By whom will the course be taught? Damodarin Chendil, Ph.D.
- b. Are facilities for teaching the course now available? YES NO
If NO, what plans have been made for providing them?

10. What yearly enrollment may be reasonably anticipated?
2-5
11. a. Will this course serve students primarily within the department? Yes No
- b. Will it be of interest to a significant number of students outside the department? YES NO
If YES, please explain.
Students in Ph.D. programs in science, including those enrolled in the IBS program, may elect to take this course.
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12. Will the course serve as a University Studies Program course[†]? YES NO
If YES, under what Area? _____
[†]AS OF SPRING 2007, THERE IS A MORATORIUM ON APPROVAL OF NEW COURSES FOR USP.
13. Check the category most applicable to this course:
- traditional – offered in corresponding departments at universities elsewhere
- relatively new – now being widely established
- not yet to be found in many (or any) other universities
14. Is this course applicable to the requirements for at least one degree or certificate at UK? Yes No
15. Is this course part of a proposed new program? YES NO
If YES, please name: Ph.D. in Reproductive Sciences
16. Will adding this course change the degree requirements for ANY program on campus? YES NO
If YES[†], list below the programs that will require this course:

APPLICATION FOR NEW COURSE

In order to change the program(s), a program change form(s) must also be submitted.

- 17. [X] The major teaching objectives of the proposed course, syllabus and/or reference list to be used are attached.
18. [] Check box if course is 400G- or 500-level, you must include a syllabus showing differentiation for undergraduate and graduate students by (i) requiring additional assignments by the graduate students; and/or (ii) the establishment of different grading criteria in the course for graduate students. (See SR 3.1.4)

19. Within the department, who should be contacted for further information about the proposed new course?

Name: Dr. Damodar Chendil Phone: 80851 Email: dchen2@uky.edu

20. Signatures to report approvals:

5-30-08 DATE of Approval by Department Faculty Karen O. Jeff Reported by Department Chair [Signature]

6-09-08 DATE of Approval by College Faculty Jason Stewart Reported by College Dean [Signature]

* DATE of Approval by Undergraduate Council [Signature]

12/08/08 * DATE of Approval by Graduate Council Brian Jackson Reported by Graduate Council Chair [Signature]

7/15/08 * DATE of Approval by Health Care Colleges Council (HCCC) Heidi Anderson Reported by Health Care Colleges Council Chair [Signature]

* DATE of Approval by Senate Council Reported by Office of the Senate Council

* DATE of Approval by University Senate Reported by Office of the Senate Council

*If applicable, as provided by the University Senate Rules. (http://www.uky.edu/USC/New/RulesandRegulationsMain.htm)

Biology and Therapy of Reproductive Cancer

Course Title: Biology and Therapy of Reproductive Cancer

Departmental and college code: RSC

Numerical designation and section number: 703-001

Scheduled meeting day(s) time and place (2 X 1.5 hrs./week); TBD

Contact Information of Instructor:

Chendil Damodaran Ph.D.

Division of Clinical and Reproductive Sciences

CTW 124E

Tel : (859) 323-1100x80851(Off)80879(lab)

Email: dchen2@uky.edu

Office hours: 9.00 AM to 6.00 PM (Monday to Friday)

Course Description: The course will introduce students to fundamentals of biological and molecular events related to disease progression, and to current therapeutic modalities for the treatment of reproductive cancer. The course is three (3) credit hours and includes lectures for each topic. In addition there will be discussions and student presentations on related topics. Two (2) exams will be administered (midterm and final) for the course.

Course Objectives:

At the end of the course, the student will be able to:

- Discuss the biological aspects of reproductive cancers.
- Describe the pathogenesis and angiogenesis for the various types of reproductive cancers.
- Discuss epidemiology as it relates to reproductive cancer.
- Describe genetic alterations and molecular pathways responsible for reproductive cancers.
- Outline current therapeutic modalities for reproductive cancers.
- Be familiar with ongoing research in the area of reproductive cancers.

Suggested Prerequisites: Admission into the Ph.D. program in Reproductive Sciences or consent of the instructor. Courses in biology, cancer therapy and molecular biology are helpful prerequisites. .

Recommended Texts: The Basic Science of Oncology, Tannock and Hill (may be purchased at Harvard Coop), 4th edition **ISBN: 0-07-158774-9**

Prostate Cancer: Biology, Genetics & the New Therapeutics (Contemporary Cancer Research)
Leland W. K., Ph.D. Chung, William Brewster Isaacs, Jonathan W. Simons **ISBN: 0-89603-868-8**

Molecular Biology of Prostate Cancer
M. Wirth, J. E. Altwein, B. Schmitz-Drager, S. Kuptz **ISBN: 3-11-016159-1**

Cell and Molecular Biology of Endometrial Carcinoma.
by H. Kuramoto **ISBN: 4431006133**

Genes, Oncogenes, and Hormones: Advances in Cellular and Molecular Biology of Breast Cancer
by Robert B. Dickson (Editor), Marc E. Lippman (Editor) **ISBN:**

Molecular Oncology of Breast Cancer
by Jeffrey S. Ross, Gabriel N. Hortobagyi, Jeffrey S. Ross **ISBN: 0763748102**

Breast Cancer: Molecular Genetics, Pathogenesis and Therapeutics
by Anne M. Bowcock (Editor), Anne M. Bowcock ISBN: 0896035603

Supplemental Readings: Students will receive an email notification of the related reading material relevant to each lecture.

Student Evaluation and Grading:

Students will be evaluated on the basis on the written examinations, presentations and class participation. Graduate students: 25% midterm, 35% final, 20% presentation, 10% assignments and 10% class participation. Student presentations will be given during class or end of the semester. Depending upon performance of the class as a whole some adjustments may take place on the final cumulative semester's grades. Questions/concerns about exams must be submitted to the course director within one week after student receives corrected exam.

Grading Scale:

90-100%	A
80-89%	B
70-79%	C
below 70%	E

University Policies:

Excused absences: Acceptable reasons for excused absences are listed in *Student's rights and Responsibilities, Section 5.2.4.2*. Briefly, these include serous illness, illness or death of someone in the student's immediate family, University sponsored trips, major religious holidays, and other circumstances the instructor finds reasonable. NOTE: If you intend to be absent to observe a major religious holiday, you must notify Dr. Chendil *in writing* two weeks prior to the upcoming date.

When there is an excused absence, you will be given the opportunity to make up missed work and/ or exams. It is the student's responsibility to inform the instructor of the absence, preferably in advance, but no later than one week after the absence.

Senate Rule 5.2.4.2 states that faculty have the right to request "appropriate verification" when students claim an excused absence because of illness or death in the immediate family. The University Health Services (UHS) will no longer give excuses for absences from class due to illness or injury. UHS forms can be date stamped to show that students went to the trouble of going to University Health Service, but it does not mean that students actually saw a physician or a nurse. If the faculty member wants further verification that a student kept an appointment with University Health Services (especially when there have been multiple or prolonged absences from class), the student will need to sign a release of information form (available from UHS) that will give permission for the staff to talk with the faculty member.

Inclement weather: In case of inclement weather or emergencies, class will be held unless the University administration cancels classes. For University closing of classes and offices, call the UK Infoline at 257-5684 or check UKTV Cable Channel 16. Students should use their judgment about coming to class.

Cheating and plagiarism: Descriptions of what constitutes cheating and plagiarism are found in *Student Rights and Responsibilities, Sections 6.3.1 and 6.3.2*. Be aware that the

minimum consequence for either offense is an "E" in the course. Suspension and dismissal from the University are also options.

Classroom and Learning Accommodations: Instructors will make reasonable accommodations for physical and/or learning disabilities that could inhibit student academic success. The Disability Resource Center certifies the need for and specifies the particular type of such accommodations on a student-by-student basis. Students seeking accommodations must submit this certification to the faculty. Contact the Center staff at 257-2754.

Writing Skills: Helping promote scholarship is more than simply teaching the subject matter -- all students need to improve and refine their skills in verbal and written expression. Regardless of discipline, faculty have the right-and the obligation to expect students to use English properly in all aspects of the course (S.R.5.2.4.3). Instructors may ask students to rewrite papers, make writing style one of the grading criteria, and report a seriously deficient student to his/her college for remedial work.

Tentative Lecture Schedule:

1. Introduction

Overview and discussion of syllabus;
Outcome of the course, presentations,
Brief introduction to cancer, including diagnoses.

2. Cancer Classification

Risk factors
Overview of etiology
Epidemiology of human cancer
Genetic alteration
Differentiation,
Progression
Promotion
Genetic basis of cancer:
Mutation incidence
Cytogenetic abnormalities,
DNA repair mutations
Genetic pathways in cancer

3. Oncogenes

Tumor suppressor genes;
Cell cycles regulators
Apoptosis

4. Angiogenesis;

Over view, blood vessel formation,
Tumor growth
Metastasis

5. Prostate cancer:

Introduction, tumor suppressor genes in PCa, regulation of prostate growth, The role of Androgen receptor,
Epidemiology, genetic alterations, molecular pathways, treatments
Radiation
Radical Prostatectomy
Hormone Therapy
Cryotherapy ,
Complementary, Integrative and Alternative Treatments,

6. Endometrial cancer:

An overview
Endometrial stress neuropeptides
Paracrine effects on cell proliferation and apoptosis
Effect of cell cycle regulators in steroid hormone-induced growth of endometrial carcinoma Estrogen
receptor signaling and crosstalk with Ah receptor
The role of cox-2 expression
Regulation of gene expression and endometrial cancer cells.
Treatments

7. Ovarian cancer

Hereditary ovarian cancer
Molecular pathogenesis of ovarian cancer
Molecular genetics of ovarian cancer
Expression of the epidermal growth factor receptor,
HER-2/neu and p53 in ovarian cancer, Drug Resistance and Experimental Therapeutics

8. Breast Cancer;

Clinical and molecular epidemiology of breast cancer
Genomic and molecular classification of breast cancer
Prognostic and predictive factors overview
Cell proliferation markers and cell cycle regulators in breast cancer Translation of molecular markers to
clinical practice
P53 and tumor suppressor genes in breast cancer
Targeted therapy for cancer: integrating diagnostics and therapeutics
HER-2/neu gene and protein in breast cancer
Epidermal growth factor receptor and other growth factors and receptors
Tumor-associated proteolytic factors: markers for tumor invasion and metastasis Breast cancer and
angiogenesis
Programmed cell death and breast cancer

9. Chemoprevention;

Antioxidants
Hormonal therapy
Future of cancer research
In vitro and in vivo models