**FLORIDA ATLANTIC UNIVERSITY**

**Graduate Programs—NEW COURSE PROPOSAL**

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<th>DEPARTMENT NAME:</th>
<th>COLLEGE OF:</th>
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<td>Basic Science</td>
<td>Charles E. Schmidt College of Biomedical Science</td>
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**RECOMMENDED COURSE IDENTIFICATION:**

**PREFIX** BMS  
**COURSE NUMBER** 6603  
**LAB CODE (L or C)** (TO OBTAIN A COURSE NUMBER, CONTACT ERUDOLPH@FAU.EDU)

**COMPLETE COURSE TITLE:** Molecular Genetics of the Cell

**EFFECTIVE DATE:** (first term course will be offered)

S**PRING 2011**

**CREDITS:** 3

**TEXTBOOK INFORMATION:**
- Thompson & Thompson Genetics in Medicine. Robert L. Nussbaum, MD, Roderick R. McInnes, MD PhD, FRS(C) and Huntington F. Willard, PhD Elsevier, 7th Edition. recommended.

**GRADING (SELECT ONLY ONE GRADING OPTION):**

- Regular  
- Pass/Fail  
- Satisfactory/Unsatisfactory

**COURSE DESCRIPTION, NO MORE THAN 3 LINES:**

This course is designed to provide students with a basic background in cell and molecular biology. Emphasis will be placed on human physiology and disease.

**PREREQUISITES W/MINIMUM GRADE:**

- BCH 3033 Biochemistry 1 or PCB 3063 Molecular & Cell Biology or equivalents. Minimum Grades: B-

**COREQUISITES:**

**OTHER REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL):**

- Graduate Students Only

**MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE:**

- Ph.D.

Other departments, colleges that might be affected by the new course must be consulted. List entities that have been consulted and attach written comments from each. Department of Biology

Marc Kantorow, Ph.D, mkantorow@fau.edu, tel: 297-2910

Faculty Contact, Email, Complete Phone Number

**SIGNATURES**

- Approved by:  
- Date: 2/16/10

**SUPPORTING MATERIALS**

- Syllabus—must include all details as shown in the UGPC Guidelines.
- Written Consent—required from all departments affected.

Go to: http://graduate.fau.edu/ugpc/ to download this form and guidelines to fill out the form.

Email this form and syllabus to diamond@fau.edu and egrido@fau.edu one week before the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website by committee members prior to the meeting.

FAUnewcrseGrad—Revised January 2010
MOLECULAR GENETICS OF THE CELL

Course Number: BMS 6603  
Prerequisites: BCH 3033 & PCB 4023  
Co-requisites: None

Instructor: Dr. Marc Kantorow  
Office: BC 71, Room 207  
Tel: 297-2910 office /297-2918 lab  
Email: mkantorow@fau.edu  
Office hours: Fridays 2-4:30 or by appointment

Recommended Textbooks:  

Bibliography: Up to date literature will be selected year to year.

Course Description: MCB is a course designed to provide students with a basic background in cell and molecular biology. Emphasis will be placed on human physiology and disease. Although some review level introductory information will be presented, this is a graduate course and it is strongly recommended that students complete undergraduate Cell Biology and Biochemistry as prerequisites for this course.

Instructional objectives:  
To understand those molecular mechanisms that control cellular physiology and to learn how inheritance functions in the regulation of these systems with an emphasis on understanding the mechanisms that underlie human genetic diseases.

COURSE SCHEDULE: The instructor reserves the right to alter the schedule or content of the course at anytime.

January 2009  
Tuesday 6th: Intro to the Course  
Thursday 8th: Genetic Transfer in Cells  
Tuesday 13th: DNA Structure and Function  
Thursday 15th: Cellular Genomes and Nuclear Structure  
Tuesday 20th: Cellular and DNA Replication  
Thursday 22nd: DNA Repair and Mutagenesis  
Tuesday 27th: RNA Synthesis  
Thursday 29th: RNA processing
February 2009
Tuesday 3rd: Regulation of Prokaryotic Gene Expression
Thursday 5th: Regulation of Eukaryotic Gene Expression
Tuesday 10th: Synthesis and Transport of Proteins
Thursday 12th: Technology I
Tuesday 17th: Technology II
Thursday 19th: Exam Preparation Day
Tuesday 24th: In Class Review

Thursday 26th EXAM I

March 2009
Tuesday 3rd: SPRING BREAK
Thursday 5th: SPRING BREAK

Tuesday 10th: Cell Structure and Function-Dr. Wanda Lee Kantorow
Thursday 12th: Cell Membrane Structure and Function-Dr. Wanda Lee Kantorow
Tuesday 17th: Signal Transduction-Dr. Lisa Brenan
Thursday 19th: Cell Biology of Cancer-Dr. Lisa Brenan
Tuesday 24th: Cell Biology of Immunity-Dr. Lisa Brenan

April 2009
Thursday 2nd: STUDENT PRESENTATIONS
Tuesday 7th: STUDENT PRESENTATIONS
Thursday 9th: STUDENT PRESENTATIONS
Tuesday 14th: STUDENT PRESENTATIONS
Thursday 16th: Exam Preparation Day
Tuesday 21st: In Class Review

FINAL EXAM-DAY AND TIME TBA

Assessment Procedures:
Students will be expected to give group presentations on topics presented in the course. Students will each prepare and submit 2 exams questions for their individual presentations. Students will be evaluated based on their cumulative performance on one mid-term and one final exam. Exams will be cumulative and will include material and questions presented by students. Slides used in lectures will be accessible to students. Attendance is not mandatory but students are responsible for knowing all information presented during the lecture exceeding the information on the slides.

Grading criteria: 90-100A; 80-90B; 70-80C; 60 below F.
Academic Honor Code:
Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards because it interferes with the University mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the University community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility.

The FAU Honor Code requires a faculty member, student, or staff member to notify an instructor when there is reason to believe an academic irregularity is occurring in a course. The instructor must pursue any reasonable allegation, taking action where appropriate. The following constitute academic irregularities:

1. The use of notes, books or assistance from or to other students while taking an examination or working on other assignments, unless specifically authorized by the instructor, are defined as acts of cheating.
2. The presentation of words or ideas from any other source as one’s own is an act defined as plagiarism.
3. Other activities that interfere with the educational mission of the University.

For full details of the FAU Honor Code, see University Regulation 4.001 at www.fau.edu/regulations/chapter4/4.001_Honor_Code.pdf.

Students With Disabilities
In compliance with the American Disabilities Act (ADA), students who require special accommodations due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) – in Boca Raton, SU 133 (561-297-3860); in Davie, MOD 1 (954-236-1222); in Jupiter, SR 117 (561-799-8585); or at the Treasure Coast, CO 128 (772-873-3305) – and follow all OSD procedures.
Good morning,

I circulated the syllabi for the new courses listed in your e-mail (see below) to the faculty who could make comments. I did not receive any responses that raised questions or noted a significant overlap with any of our graduate courses. Please let me know if you have any questions.

I hope this is helpful and good luck with the remainder of the process toward approval of the courses.

Regards,
David

David M. Binninger, Ph.D.
Associate Professor and Associate Chair
Department of Biological Science
and
Center for Molecular Biology and Biotechnology
Florida Atlantic University
777 Glades Road
Boca Raton, FL 33431 USA
Phone: (561) 297-3323
FAX: (561) 297-2749

Begin forwarded message:

From: Julie Sivigny <jsivigny@fau.edu>
Date: March 15, 2010 1:38:27 PM EDT
To: 'David Binninger' <binninge@fau.edu>
Subject: Biomedical Science New Course Proposals

Dear Dr. Binninger,
Thank you for your assistance with this process. We are submitting a total of 10 new course proposals and 2 changes. All syllabi were forwarded to Dr. Murphay but in multiple batches so if you are missing any please let me know and I'll send to you immediately.

Biomedical Science New Course Proposals:
Host Defense & Inflammation – Dr. Yoshimi Shibata
Molecular Neuropsychopharmacology – Drs. Isgor and Tao
Macromolecules and Human Disease – Drs. Brew and Li
Adult Neurogenesis – Dr. Jianning Wei
Molecular Basis of Disease & Therapy – Dr. Caputi

3/17/2010
Tumor Immunology – Dr. Vijaya Iragavarapu
Molecular Genetics of the Cell – Dr. Kantorow
Molecular Basis of Human Cancer – Dr. Lu
Problem-based Immunology – Dr. Nouri-Shirazi
Fundamentals of General Pathology – Dr. Levitt

The integrated morphology courses will be processed as changes. We previously offered two 3-credit courses: Human Gross Anatomy – Trunk and Human Gross Anatomy – Extremities. We are changing these to 4-credit courses with the titles Integrated Morphology I and II taught by Drs. Willis Paull, Rainald Shmidt-Kastner and Deborah Cunningham.

The graduate college submission deadline is Wednesday March 17th at noon. I apologize for the lateness of some of these requests and appreciate your effort to assist us.

Please let me know if I can provide any additional information.

Thank you.
Julie

Julie A. Sivigny
Academic Program Specialist
Charles E. Schmidt College of Biomedical Science
Florida Atlantic University
(561) 297-2216

From: David Binninger [mailto:binninge@fau.edu]
Sent: Monday, March 15, 2010 11:16 AM
To: Julie Sivigny
Cc: Rodney Murphey; Jay Lyons
Subject: Fwd: Biomedical Science New Course Proposal - Macromolecules & Human Disease

Good morning Julie,

I forwarded the syllabi for the new courses to the appropriate faculty last week. It’s my opinion that there will not be any issues or conflicts. So far, I have had only one response and that was that there were no concerns. Please confirm the full list of new courses and when you need a statement from me.

I hope this is helpful and please let me know if you have any questions.

Regards,
David

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and
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3/17/2010