# FLORIDA ATLANTIC UNIVERSITY

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# **Graduate Programs—NEW COURSE PROPOSAL**

8		141100		
DEPARTMENT NAME: COLLEGE OF: Basic Science Charles E. Schmidt College of Biomedical Science				
	L. Commut College of Biome	dicai ocience		
RECOMMENDED COURSE IDENTIFICATION:		EFFECTIVE DATE		
PREFIXBMS COURSE NUMBER6603	LAB CODE (L or C)	(first term course will be offered)		
(TO OBTAIN A COURSE NUMBER, CONTACT ERUDOLPH@FAU.EDU)	•			
COMPLETE COURSE TITLE Molecular Genetics of the Cell		GPRING 2011		
CREDITS: 3 TEXTBOOK INFORMATION:				
Molecular Biology of the Cell. Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith				
Roberts, Peter Walter. Garland Science, Fourth Edition. – recommended. <u>Thompson &amp; Thompson Genetics in Medicine</u> . 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): REGULARX	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: * COREQUISITES:	OTHER REGISTRAT	ION CONTROLS (MAJOR, COLLEGE, LEVEL):		
BCH 3033 Biochemistry 1 or PCB	Graduate Student	Graduate Students Only		
3063 Molecular & Cell Biology or				
equivalents. Minimum Grades: B-				
PREFECUISITES, COREQUISITES & REGISTRATION CONTROLS SHOWN AB *DEFAULT MINIMUM GRADE IS D	OVE WILL BE ENFORCED FOR ALL CO	DURSE SECTIONS.		
MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE: Ph.D.				
Other departments, colleges that might be affected by the new attach written comments from each. Department of Biology	course must be consulted. Li	st entities that have been consulted and		
Marc Kantorow, Ph.D, <u>mkantoro@fau.edu</u> , tel: 297-2910				
Faculty Contact, Email, Complete Phone Number				
SIGNATURES		SUPPORTING MATERIALS		
Approved by:	Date:	Syllabus—must include all details as		
Department Chair:	2/6/10	shown in the UGPC Guidelines.		
College Curriculum Chair:	3-16-10	Written Consent—required from all departments affected.		
College Dean: White Saule	3-16-10	Go to: http://graduate.fau.edu/gpc/ to download this form and guidelines to fill		
UGPC Chair:		out the form.		
Dean of the Graduate College:				

Email this form and syllabus to <u>diamond@fau.edu</u> and <u>eqirjo@fau.edu</u> 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.

#### 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: mkantoro@fau.edu

**Office hours:** Fridays 2-4:30 or by appointment

#### **Recommended Textbooks:**

Molecular Biology of the Cell. Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter. Garland Science, Fourth Edition.

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

**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 20<sup>th:</sup> Cellular and DNA Replication Thursday 22<sup>nd</sup>: DNA Repair and Mutagenesis

Tuesday 27<sup>th</sup>: RNA Synthesis Thursday 29<sup>th</sup>: RNA processing

# February 2009

Tuesday 3<sup>rd</sup>: Regulation of Prokaryotic Gene Expression Thursday 5<sup>th</sup>: Regulation of Eukaryotic Gene Expression

Tuesday 10th: Synthesis and Transport of Proteins

Thursday 12<sup>th</sup>: Technology I Tuesday 17<sup>th</sup>: Technology II

Thursday 19th: Exam Preparation Day

Tuesday 24th: In Class Review

# Thursday 26th EXAM I

# March 2009

Tuesday 3<sup>rd</sup>: SPRING BREAK Thursday 5<sup>th</sup>: SPRING BREAK

Tuesday 10th: Cell Structure and Function-Dr. Wanda Lee Kantorow

Thursday 12th: Cell Membrane Structure and Function-Dr. Wanda Lee Kantorow

Tuesday 17<sup>th</sup>: Signal Transduction-*Dr. Lisa Brenan* Thursday 19<sup>th</sup>: Cell Biology of Cancer-*Dr. Lisa Brenan* Tuesday 24<sup>th</sup>: Cell Biology of Immunity-*Dr. Lisa Brenan* 

# April 2009

Thursday 2<sup>nd</sup>: STUDENT PRESENTATIONS Tuesday 7<sup>th</sup>: STUDENT PRESENTATIONS Thursday 9<sup>th</sup>: STUDENT PRESENTATIONS Tuesday 14<sup>th</sup>: STUDENT PRESENTATIONS Thursday 16<sup>th</sup>: 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 <a href="https://www.fau.edu/regulations/chapter4/4.001\_Honor\_Code.pdf">www.fau.edu/regulations/chapter4/4.001\_Honor\_Code.pdf</a>.

#### **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 (561-297-3880); 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.

# Julie Sivigny

From:

David Binninger [binninge@fau.edu]

Sent:

Wednesday, March 17, 2010 11:47 AM

To:

Julie Sivigny

Cc:

Rodney Murphey

Subject: Fwd: Biomedical Science New Course Proposals

# 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 < isivigny@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. Murphey 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

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 17<sup>th</sup> 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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