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Graduate Programs—NEW COURSE PROPOSAL ¹			BANNER POSTED					
		00.				CATALOG		
DEPARTMENT: BIOMEDICAL SCIENCE COLLEGE: CHARLES E. SCHMIDT COLLEGE OF MEDICINE								
RECOMMENDED COURSE IDENTIFICATION:						EFFECTIVE DATE		
PREFIX PCB Course	NUMBER 6063	LAB CODE (L or C) No Lab			(first term course will be offered)		
(TO OBTAIN A COURSE NUMBER, CONTACT MJENNING@FAU.EDU)								
COMPLETE COURSE TITLE: ADVANCED MOLECULAR AND CELLULAR BIOLOGY SPRING 2015								
CREDITS ² : 3 TEXTBOOK INFORMATION: MOLECULAR BIOLOGY OF THE CELL, FIFTH EDITION: THE PROBLEMS BOOK BY BRUCE ALBERTS, ALEXANDER JOHNSON, JULIAN LEWIS, MARTIN RAFF, KEITH ROBERTS, PETER WALKER								
GRADING (SELECT ONLY ONE GRADING OPTION): REGULARX SATISFACTORY/UNSATISFACTORY								
Course Description, no advanced topics in cell a						students with a basic background and ogy and disease.		
PREREQUISITES*: COREQUISITES*:				REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL)*:				
ORGANIC CHEMISTRY 1					INSTRUCTOR PERI	MISSIONS REQUIRED		
MOLECULAR AND CELL B	IOLOGY							
BIOCHEMISTRY 1								
* Prerequisites, corequisites and registration controls will be enforced for all course sections.								
MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE: 1. MEMBER OF THE GRADUATE FACULTY OF FAU 2. HAS A TERMINAL DEGREE IN THE SUBJECT AREA (OR CLOSELY RELATED FIELD)								
Faculty contact, email and						at be affected by the new course and attach		
			comments.					
Dr. Andrew Oleinikov (561) 297-4424 Charles E. Schmidt College of Science (see attached approval letter)						tached approval letter)		
(561) 297- 4424 aoleinikov@fau.edu Charles E. Schmidt College of Science (see attached approval letter)								
Approved by: Department Chair:/ College Curriculum Chair College Dean:/	Marx			Date E	292014	Syllabus must be attached; see guidelines for requirements: www.fau.edu/provost/files/course syllabus.2011.pdf Review Provost Memorandum: Definition of a Credit Hour		
UGPC Chair: Graduate College Dean:	18b0	ah	flow		11/19/14	www.fau.edu/provost/files/Definition Credit Hour Memo 2012.pdf		
UFS President:					/ /	3. Consent from affected departments		
Provost:				_		(attach if necessary)		

Email this form and syllabus to <u>UGPC@fau.edu</u> one week before the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website prior to the meeting.

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ADVANCED MOLECULAR AND CELLULAR BIOLOGY-SPRING 2015

Course # PCB 6063 – 3 credits
Course Registration: Instructor Permission

Course Registration: Instructor Permissic MW 11- 12:20

Place: BC 130

Course Pre-requisites: CHM 2210- Organic Chemistry 1

PCB 4023- Molecular and Cell Biology

BCH 3033- Biochemistry

Course Instructor: Dr. Andrew Oleinikov

Office 310, Lab 305

297-4424 office /297-0201 lab

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

Required Textbook:

Molecular Biology of the Cell, Fifth Edition: The Problems Book

By Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter

Course Description:

MCB is a course designed to provide students with a basic background and advanced topics 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 required that students complete undergraduate Organic Chemistry I, Molecular and Cell Biology, and Biochemistry I as prerequisites for this course.

Course Objectives:

- 1. Understanding physical-chemical basis of biological processes and cell functioning
- 2. Understanding effects of evolutionary forces on shaping molecular and cellular processes
- 3. Developing ability to work with current scientific literature, to simplify complex problems to basic components, and to relate knowledge of molecular biological processes to pathological states

Course Schedule:

January 2015

Monday 5th: Intro to the Course

Wednesday 7th: Cells, Genes, and Information Monday 12th: DNA Structure and Function

Wednesday 15th: Cellular Genomes and Nuclear Structure

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Wednesday 7th: Cells, Beres, and help marken

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Monday 19^{th:} Cellular and DNA Replication Wednesday 21st: DNA Repair and Mutagenesis

Monday 26th: RNA Synthesis Wednesday 28th: RNA processing

February 2015

Monday 2nd: Regulation of Prokaryotic Gene Expression Wednesday 4th: Regulation of Eukaryotic Gene Expression

Monday 9th: Exam Preparation Day

Wednesday 11th: In Class Review

February 16-20: MIDTERM EXAM 1

Monday 23rd: Technology I Wednesday 25th: Technology II

March 2015

Monday 2nd: SPRING BREAK Wednesday 4th: SPRING BREAK

Monday 9th: Synthesis and Transport of Proteins Wednesday 11th: Cell Membrane Structure and Function

Monday 16th: Cell Organization and Function

Wednesday 18th: Signal Transduction
Monday 23rd: Cell Biology of Cancer
Wednesday 25th: Cell Biology of Immunity
Monday 30th: Cell Biology of Malaria

April 2015

Wednesday 1st: STUDENT PRESENTATIONS
Monday 6th: STUDENT PRESENTATIONS
Wednesday 8th: STUDENT PRESENTATIONS
Monday 13th: STUDENT PRESENTATIONS

Wednesday 15th: Exam Preparation Day

Monday 20th: In Class Review Wednesday 22nd: In Class Review

ARPIL 23-29: FINAL EXAM

Grading:

Student presentation: 10% Midterm Exam: 40% Final Exams: 50%

<u>Supplemental Readings:</u> Additional Research articles will be used in class as well as material from Dr. Pollack's book "Cells, gels, and the engines of life".

<u>Course Policies:</u> Makeup tests and late work are not allowed unless an approved physical problem or schedule conflicting with University-approved activities

<u>Classroom etiquette:</u> Please refer to the FAU Catalog and Student Handbook. Compliance with university rules and regulations is expected of all students.

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 (561-297-3880); 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.

Advanced Molecular and Cell Biology: Andrew Oleinikov, Ph.D.

Advanced Molecular and Cell Biology is a new required core course for the MS in Biomedical Science curriculum of the Schmidt College of Medicine. It is not related to the Biology Departments Molecular and Cell Biology course (PCB 4023) or Integrative Biology 2 course (BSC 6391) since these are general introductory courses that do not specifically focus on human diseases and not appropriate for our programmatic requirements. The COM Advanced Molecular and Cell Biology Course has completely different learning objectives then other molecular and cell biology courses in biology or at FAU since it focuses on understanding the physical-chemical basis of biological processes and cell functioning, their relevance to pathological states, and potential therapies for specific human diseases. The instructor is uniquely qualified to teach this course having an M.S. and a Ph.D. specifically in Biophysics and Biochemistry & Molecular Biology, respectively, and a long track record of NIH funded research and published scholarship specific for human disease mechanisms. It is important to the COM that the core courses required for our program are taught in-house to optimize the goals, content and academic outcomes required by our own program. Thanks in advance for your help getting this course evaluated and listed on time.

Subject: RE: Telephone Conference-New Course Proposal

Date: Monday, October 13, 2014 at 10:34:15 AM Eastern Daylight Time

From: William Brooks

To: Carolina Clark, Timothy Theisen, Gregory Macleod, Tanja Godenschwege, Xing-hai Zhang

CC: Michelle Cavallo, Marc Kantorow, Andrew Oleinikov, Rodney Murphey, Kenneth Dawson Scully

Hello Everyone,

I'm happy to report that I have heard back from all interested Biology faculty and that they all support the new Biomed courses, based on the feedback provided by Biomed. Thus, **Biology officially approves these courses** for consideration by the University Graduate Programs Committee. If there are any questions, please contact me directly.

Best Regards, Randy

Professor of Biology Chair, FAU Biology Undergraduate & MS Graduate Program Committees Boca Raton, FL 35431, Phone: 561-297-3888, Email: wbrooks@fau.edu

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http://www.science.fau.edu/biology/masters/masters.html

http://www.szience.fam.edu/biology/masters/masters-face.html

From: William Brooks

Sent: Wednesday, October 08, 2014 12:20 PM

To: Carolina Clark; Timothy Theisen; Gregory Madeod; Tanja Godenschwege; Xing-hai Zhang Cc: Michelle Cavallo; Marc Kantorow; Andrew Oleinikov; Rodney Murphey; Kenneth Dawson Scully

Subject: RE: Telephone Conference- New Course Proposal

Dear Molecular Biology Faculty (Tim, Greg, Tanja and Xing-hai),

Please forward your comments directly to me (wbrooks@fau.edu) no later than Friday (Oct. 10) so that we can consolidate the

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Dest Regards, Rendy

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Dear iviolecular Biology Faculty (11m, Greg, Tanja and Xing-Itali),

Plades forward your comments directly to me (wbrocks@fau.edu) . no later than Friday (Oct. 10) so that we can consoligate the

responses and forward them to Biomed expeditiously.

Regards, Randy

Professor of Biology Chair, FAU Biology Undergraduate & MS Graduate Program Committees Boca Raton, FL 33431, Phone: 561-297-3888, Email: <u>wbrooks@faw.edu</u>

him //www.science.fan.cilu/biology/faculty/brooks.html

http://www.science.fau.edu/biology/masters/masters.html

http://www.science.fam.edu/biology/masters/masters-fams.html

From: Carolina Clark

Sent: Tuesday, October 07, 2014 11:03 AM

To: Timothy Theisen; Gregory Madeod; Tanja Godenschwege; Xing-hai Zhang; William Brooks

Cc: Michelle Cavallo; Marc Kantorow; Andrew Oleinikov; Carolina Clark

Subject: Re: Telephone Conference- New Course Proposal

Good Morning Faculty,

It seems we are still missing a few participant's availability and are having difficulties finding a convenient time for all. In order to expedite this process, we have decided to submit to you all the answers to the questions you had originally asked below. Please review the material and let us know if you have any further questions and concerns that we can then address through telephone conference if needed.

Thanking you in advance

Sincerely,

Carolina Clark
Graduate Programs Coordinator
Charles E. Schmidt College of Medicine
777 Glades Road, Rm. 206-A
Boca Raton, FL, 33431-0991
561-297-4549
clarkc@fau.edu
www.med.fau.edu

From: Carolina Clark <<u>clarkc@fau.edu</u>>
Date: Thursday, October 2, 2014 at 3:37 PM

To: Timothy Theisen ThEISEN@fau.edu, Gregory Macleod macleodg@fau.edu, Tanja Godenschwege godensch@fau.edu, William Brooks wbrooks@fau.eduCc: Carolina Clark clarkc@fau.edu, Marc Kantorow Mailto:wbrooks@fau.edu, Andrew Oleinikov ao.edu, Andrew Oleinikov a

Subject: Telephone Conference- New Course Proposal

Good afternoon all,

As you are aware, our Biomedical Science Graduate Program is trying to submit new course proposals to the UGP Committee which require Biology approval. We have received approval for 3 of our courses which were forwarded to the committee yesterday, but were instructed to provide additional clarification for the 4th course "Advanced Molecular and Cellular Biology". As listed on the email trace below, you have all expressed some concerns and raised questions about our graduate course which is why we are reaching out to you in hopes of addressing these issues and providing you with a clearer explanation as to how our graduate course differs from your undergraduate molecular course.

In order to discuss these issues and expedite the process for this course approval, Dr. Kantorow, Program Director, and Dr. Oleinikov, course instructor, would greatly appreciate your willingness to join them for a telephone conference sometime in the next 2 weeks. I have provided below link to Doodle Poll which will allow you to list your availability. Please be sure to include your telephone number as well, as a follow up email with instructions on how to connect to the telephone webinar will be sent after dates and times have been selected for the meeting.

I would like to invite you to the Doodle poll "Telephone Conference- New Course Proposal."

Please follow the link in order to participate in the poll: https://doodle.com/iwohe4eq6qbnava7

Thanking you all in advance for your assistance and cooperation in helping us resolve this tedious task.

Sincerely,

Carolina Clark
Graduate Programs Coordinator
Charles E. Schmidt College of Medicine
777 Glades Road, Rm. 206-A
Boca Raton, FL, 33431-0991
561-297-4549
clarkc@fau.edu
www.med.fau.edu

From: Michelle Cavallo < MCAVALLO@fau.edu>
Date: Monday, September 29, 2014 at 1:15 PM

To: Keith Brew < KBREW@fau.edu>

Cc: William Brooks <wbrooks@fau.edu>, Rodney Murphey <RMURPHEY@fau.edu>, marc kantorow <mkantoro@fau.edu>, John Newcomer <inewcomer@fau.edu>, David Bjorkman <dbjorkm1@health.fau.edu>, John Baldwin <ine delibaldwin@fau.edu>, Colin Hughes <Chughe@fau.edu>, David Binninger <binninge@fau.edu>, Xing-hai Zhang <xhzhang@fau.edu>, Kailiang Jia <kiia@fau.edu>, John Nambu <inambu@fau.edu>, Timothy Theisen <ITHEISEN@fau.edu, Diane Baronas-Lowell <dlowell@fau.edu>, Tanja Godenschwege <godensch@fau.edu>, Gregory Macleod <macleodg@fau.edu>, "M.J. Saunders" <msaund11@fau.edu>, "ken.dawson-scully@fau.edu" <ken.dawson-scully@fau.edu>, Brenda Claiborne
bclaibor@fau.edu>, James Kumi-Diaka <idiaka@fau.edu>, James Hartmann

<ihartman@fau.edu>

Subject: Biology Department Feedback on COM New Course Proposals

Dear Dr. Brew,

Thank you for sending College of Medicine's new course proposals for review by the Biology Department. Please see the below itemized feedback provided by our faculty who teach related courses.

Sincerely,

Randy Brooks,

Professor and Biology Graduate Program Committee Chair

1. Human Genetics

- a. Sent to:
 - i. John Baldwin -- no response
 - ii. Colin Hughes no response
 - iii. David Binninger While a few topics overlap with courses in our department, it is not sufficient to recommend that the *Human Genetics* course not be submitted. This is especially true because the proposed course is a graduate level course. I think it will be an excellent course for a number of our graduate students. Please let me know if you have questions or need a more detailed explanation.
 - iv. Xing-hai Zhang response: Regarding college of medicine's new courses, I don't see any conflict for "Human genetics", which focuses on human diseases.
 - v. Kailiang Jia no response
 - vi. John Nambu no response
 - vii. Timothy Theisen no response
 - viii. Diane Baronas-Lowell response: Please give my vote to whatever David votes.
 - ix. Tanja Godenschwege no response
 - x. Gregory Macleod no response

2. Advanced Molecular and Cellular Biology

- a. Sent to:
 - i. John Baldwin no response
 - ii. Colin Hughes no response
 - iii. David Binninger no response
 - iv. Xing-hai Zhang response: Regarding college of medicine's new courses, I don't see any conflict for "Human genetics", which focuses on human diseases. But for "Advanced Mol, Cell Biology", its content is very similar to what we teach in "Genetics" and will be even more similar to our proposed "Molecular Genetics" (per Colin Hugues). It would be OK if we don't offer graduate level Genetics, Molecular Genetics or Mol Cell Biology courses, only undergrad courses.
 - v. Kailiang Jia no response
 - vi. John Nambu no response
 - vii. Timothy Theisen response: I have reviewed that attached document describing the proposed new course, Advanced Cellular and Molecular Biology, and have the following comments: 1) Their proposed course as described will be different than our undergraduate Molec and Cell course in that it will focus on human physiology, human disease, and potential therapies, topics which are not covered in the undergraduate biology course.

 2) Their characterization of our undergraduate Molec and Cell course as a "general introductory course" is inaccurate. We also focus on understanding the physical-chemical

basis of biological processes and cell function and the role of evolutionary processes in shaping these interactions. However, we only barely relate these to human pathology or potential therapies. 3) We only barely discuss cancers and do not cover immunology at all, so these are clear points of difference. 4) I am a little curious as to why the syllabus does not reflect these different topics; as it currently reads it is pretty much identical to the undergrad Molec and Cell course, except for the time devoted to student presentations. In conclusion, because the course is designed to cover Molec and Cell with an emphasis on its role in human physiology and disease and possible therapies, I feel that it is sufficiently different than the course currently offered by the biology department. If it is, in fact meant to be an advanced course then I would think an undergraduate Molec and Cell course (taken at FAU or wherever their undergrad degree was earned) would be a mandatory pre-req, not merely a suggestion. Otherwise the course will end up spending a lot of time on review.

- viii. Diane Baronas-Lowell no response
- ix. Tanja Godenschwege response: Not only significantly but totally, with mine and Tim Theissens MCB course as we even use the same textbook. However ours is for undergraduates but theirs is supposed to be for graduates? Not sure if that makes any difference??
 - x. Gregory Macleod response: Seems like their Cell Bio course would overlap significantly with your existing Mol Cell Bio course
 - xi. M.J. Saunders no response

3. Neurobiology of Addiction

- a. Sent to:
 - i. Rodney Murphey
 - ii. Tanja Godenschwege no response
 - iii. **Ken Dawson-Scully** I don't have an issues with the proposed course Neurobiology of Addiction. On the contrary I think it will be an excellent addition to the Neuroscience curriculum at FAU.
 - iv. Brenda Claiborne This course looks fine to me.

4. Immunology Seminar

- a. James Kumi-Diaka response: I have just reviewed the College of Medicine's new course proposal in immunology. This course is technically an Immunology Seminar Course at the 5000 level. One would expect a prerequisite for this Seminar; but that is up to the College of Medicine I do not see any conflict with our immunology course PCB 4233; which is a full upper level course. I suggest they may go ahead and offer the seminar: MY OPINION
- b. **James Hartmann** response: The biomed seminar in Immunology appears to be different from any Immunology course offerings in biology. I believe this is a formal course to replace the informal seminar series that I have attended in the past.

Michelle Cavallo
Administrative Assistant & Graduate Coordinator
Department of Biological Sciences
Florida Atlantic University
777 Glades Road
Boca Raton, FL 33431
PH: 561-297-0384

Response to Biology faculty notes about ACMB course

Xing-hai Zhang - response: Regarding college of medicine's new courses, I don't see any conflict for "Human genetics", which focuses on human diseases. But for "Advanced Mol, Cell Biology", its content is very similar to what we teach in "Genetics" and will be even more similar to our proposed "Molecular Genetics" (per Colin Hugues). It would be OK if we don't offer graduate level Genetics, Molecular Genetics or Mol Cell Biology courses, only undergrad courses. — All Mol and Cell Bio courses are similar in their topics, the difference is in details. Our details will include emphasis on relevance of the studied topics/mechanisms/pathways in molecular and cell biology to pathological states, and current and potential therapies for human diseases. This is graduate course that is a part of our graduate program at COM and is required for all graduate students.

<u>Timothy Theisen</u> – response: I have reviewed that attached document describing the proposed new course, Advanced Cellular and Molecular Biology, and have the following comments:

- 1) Their proposed course as described will be different than our undergraduate Molec and Cell course in that it will focus on human physiology, human disease, and potential therapies, topics which are not covered in the undergraduate biology course. OK
- 2) Their characterization of our undergraduate Molec and Cell course as a "general introductory course" is inaccurate. We also focus on understanding the physical-chemical basis of biological processes and cell function and the role of evolutionary processes in shaping these interactions. However, we only barely relate these to human pathology or potential therapies. we removed the word "general"
- 3) We only barely discuss cancers and do not cover immunology at all, so these are clear points of difference. OK
- 4) I am a little curious as to why the syllabus does not reflect these different topics; as it currently reads it is pretty much identical to the undergrad Molec and Cell course, except for the time devoted to student presentations. it is reflected in the schedule: cancer, signal transduction, and immunology are all there. Does it require an additional sentence in the opening paragraph? We also underscore the importance of relating molecular and cellular processes to pathology and therapy.

In conclusion, because the course is designed to cover Molec and Cell with an emphasis on its role in human physiology and disease and possible therapies, I feel that it is sufficiently different than the course currently offered by the biology department. If it is, in fact meant to be an advanced course then I would think an undergraduate Molec and Cell course (taken at FAU or wherever their undergrad degree was earned) would be a mandatory pre-req, not merely a suggestion. Otherwise the course will end up spending a lot of time on review. — we changed "it is strongly recommended that students complete undergraduate Organic Chemistry, Cell Biology, and Biochemistry as prerequisites for this course" to "it is required that students complete undergraduate Organic Chemistry, Molecular and Cell Biology, and Biochemistry as prerequisites for this course".

Tanja Godenschwege – response: Not only significantly but totally, with mine and Tim Theissens MCB course as we even use the same textbook. – <u>Tim</u> thinks that our course is different from yours (see above). Using the same book is common for different courses. Nobody covers everything in this enormously large book during 18-20 lectures. We will focus on some details that are different from details in your lectures.

However ours is for undergraduates but theirs is supposed to be for graduates? Not sure if that makes any difference?? – Our details will include emphasis on relevance of the studied

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Zing-Buil Zhang responses Reserving college of medicing's new courses 1 don't see any conflict for "Suman genetics", which focuses on as non-cisoasos. But for "Advanced Mod. Celt Blokegy", if consent is very similar to what we leach in "Genetics" and will be even on as similar to currycoposed "Ividianalism Cenetics" (per Celta digues). It would be OK if we don't off a gradiane law is supplied, Ividian deposed Center Senetics as it is supplied accurate. — At 16 st and Celt Cic courses are son law at how topics, the difference in decilis. Our forall course we analysis and contest and course to the structure copies on any analysis of the structure of the enginesis of an appropriate of the structure of the enginesis of the structure of the enginesis of the structure of the enginesis of the enginesi

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Gregory Macleod – response: Seems like their Cell Bio course would overlap significantly with your existing Mol Cell Bio course – All Cell Bio courses overlap in their topics, the difference is in details. Our details will include emphasis on relevance of the studied topics/mechanisms/pathways in molecular and cell biology to pathological states, and current and potential therapies for human diseases.