# FLORIDA ATLANTIC UNIVERSITY

UGPC APPROVAL \_\_\_\_\_\_
UFS APPROVAL \_\_\_\_\_
SCNS SUBMITTAL \_\_\_\_\_
CONFIRMED \_\_\_\_\_
BANNER POSTED \_\_\_\_\_
CATALOG \_\_\_\_

Graduate Programs—NEW COURSE PROPOSAL <sup>1</sup>		BANNER POSTED
		CATALOG
DEPARTMENT: BIOMEDICAL SCIENCE COLLEGE: CHARLES E. SCHMIDT COLLEGE OF MEDICINE		
RECOMMENDED COURSE IDENTIFICATION:		Effective Date
PREFIX PCB Course Number 6665 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: HUMAN GENETICS		SPRING 2015
CREDITS: 3  TEXTBOOK INFORMATION: 1  Authors: By Robert L. Nus	Thompson & Thompson Genetics in Me sbaum, MD, Roderick R. McInnes, MD	dicine, 7 <sup>th</sup> Edition , PhD, FRS(C) and Huntington F. Willard, PhD
GRADING (SELECT ONLY ONE GRADING OPTION): REGULARX_ SATISFACTORY/UNSATISFACTORY		
Course Description, No More THAN THREE LINES: Human Genetics is a course designed to provide students with a functional understanding of the field of human genetics as it applies to progressive research and medicine. The course will emphasize the integrated understanding and application of Genetic Analysis, Diagnosis and Mechanisms in human disease.		
PREREQUISITES *: NONE CO	REQUISITES*: NONE REGI	STRATION CONTROLS (MAJOR, COLLEGE, LEVEL)*:
* PREREQUISITES, COREQUISITES AND REGISTRATION		OURSE SECTIONS.
MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE: BIOMEDICAL OR COM FACULTY		
Faculty contact, email and complete phone number Dr. Marc Kantorow mkantoro@fau.edu (561) 297- 2910	comments.	nts that might be affected by the new course and attach of Science (see attached letter)
Approved by:	Date:	1. Syllabus must be attached; see
Department Chair:	9/2	guidelines for requirements:  www.fau.edu/provost/files/course
College Curriculum Chair:	9/2	syllabus.2011.pdf
College Dean:	202 9/23/	2. Review Provost Memorandum: Definition of a Credit Hour
UGPC Chair:	10/81	www.fau.edu/provost/files/Definition
Graduate College Dean:	10-	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.

# **Human Genetics-Spring 2015**

Course #

PCB (TBD) - 3 credits

**Course Requisites:** 

Instructor Permission Marc Kantorow, Ph.D.

Instructors: Course hour:

MW 4-5:20 (To be confirmed)

Place:

**TBD** 

Office hour & place:

Office 207 Lab 212

561.297.2910 office/ 561.297.2918 lab

Email: mkantoro@fau.edu

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

**Text:** 

Thompson & Thompson Genetics in Medicine, 7th

**Edition** 

**Authors:** 

By Robert L. Nussbaum, MD, Roderick R. McInnes, MD,

PhD, FRS(C) and Huntington F. Willard, PhD

## **Course Description:**

Human Genetics is a course designed to provide students with a functional understanding of the field of human genetics as it applies to progressive research and medicine. The course will emphasize the integrated understanding and application of Genetic Analysis, Diagnosis and Mechanisms in human disease. Students will be evaluated based on their cumulative performance on one mid-term and one final exam. Exams will be cumulative. Attendance is not mandatory but students are responsible for knowing all information presented during lecture. The instructor reserves the right to alter the schedule or content of the course at anytime. This course will be taught using case-based models for genetic analysis, diagnosis, mechanisms and how they contribute to human disease phenotypes. These models have been chosen for their applicability to illustrate and apply important genetic concepts. Where applicable therapies and treatment options will be discussed. Students will be expected to learn course material independently outside of class since this is case-directed graduate-level course. This self-directed learning will include but not be limited to reading assignments given out bi-weekly during lectures. The majority of these assignments will come from Thompson and Thompson, GENETICS IN MEDICINE, 7th Edition.

<u>Course Objectives:</u> This course will emphasize mechanistic principles of human genetics and disease. These include but are not limited to: pedigree construction and analysis, linkage mapping, modes of inheritance, gene function analysis, genotype-phenotype correlations, disease mechanisms, epigenetic regulation, genetics of sex, signal transduction, cell-transport, DNA replication and repair, genetic mechanisms of immune tolerance, genetics of metabolism, gene expression control, mitochondrial regulation and disease, epidemiology, genetic association,

# Human Constler Spring 2016

Course 4

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Thurpson & Thompson Genetics in Medicine, 7th Edition

by Robert L. Hussbarm, MtJ. Roderlek R. McEnnes, Md. Fild, FRS(C) and Bundergroof F. Willard. PhD

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# (murse Description)

Hussan Canetics is a course designed to provide students with a functional understanding of the field of numan genetics as it applies to progressive research and medically. The course well emphasize the integrated ancerstanding and adniwating of Canade Analysis, Dalamak, and Masharisma in histor discose. Spinetics will be evaluated bused on their curvaturing performance on a part-term and one final exam. Exams will be entered the Allendance in noncepture the consequence of only constant garried bear order a constituent of the pairword out old temperatures and setting the constituent insurument i especies the right to apper the schodulum content of the course at arytime. This course will be regalderalled as a read based anotels for generic analysis. disgrosis, mechanisms and how they contribute to himan disease phenotypes. These much because because to enter the continuality is illustrated and apply important genetles, morable. Where equilibrials the appear and breatment appears will by discussed. Students will be expected to learn course insterial independently outside of class since this is case directed graduated and course. This self-directed learning will had got but not but in the tear coding assignments given out be wealth during hearings. The majority of these assignments will come from Thampson and Their programme of the Country of School and the School

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mosaic gene expression, genetic recombination inheritance, advances in genetic technologies, population inheritance and gene frequency and many more!

## **Course Schedule:**

## January 2015

Monday 5th: Intro to the course and Achondroplasia

Wednesday 7th: Alzheimer Disease

Monday 12<sup>th</sup>: Hereditary Breast and Ovarian Cancer Wednesday14<sup>th</sup>: Chronic Myelogenous Leukemia Monday 19<sup>th</sup>: No School- M.L. King Jr. Holiday Wednesday 20<sup>th</sup>: Duchenne Muscular Dystrophy Monday 26<sup>th</sup>: Familial Hypercholesterolemia

Wednesday 28th: Glucose-6-Phosphate Dehydrogenase Deficiency

## February 2015

Monday 2<sup>nd</sup>: Hereditary Nonpolyposis Colon Cancer

Wednesday 4<sup>th</sup>: Holoproencephaly Monday 9<sup>th</sup>: Huntington Disease

Wednesday 11th: Insulin-dependent Diabetes Mellitus

**February 16-20: EXAM 1- Midterm** Monday 23<sup>rd</sup>: Marfan Syndrome

Wednesday 25th: Miller-Dieker Syndrome

## March 2015

Monday 2<sup>nd</sup>: SPRING BREAK Wednesday 4<sup>th</sup>: SPRING BREAK

Monday 9th: Myoclonic Epilepsy

Wednesday 11<sup>th</sup>: Non-Syndromic Deafness Monday 16<sup>th</sup>: Polycistic Kidney Disease Wednesday 18<sup>th</sup>: Prader-Willi Sundrome

Monday 23<sup>rd</sup>: Retinoblastoma Wednesday 25<sup>th</sup>: Sex Reversal Monday 30<sup>th</sup>: Cystic fibrosis

#### **April 2015**

Wednesday 1<sup>st</sup>: Tay-Sachs Disease Monday 6<sup>th</sup>: Xerdoma Pigmentosum Wednesday 8<sup>th</sup>: Rett Syndrome Monday 13<sup>th</sup>: Fragile X Syndrome Wednesday 15<sup>th</sup>: Exam Preparation Day

Monday 20<sup>th</sup>: In Class Review Wednesday 22<sup>nd</sup>: In Class Review??

#### **March 23-29: FINAL EXAM**

<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.

## **Human Genetics: Marc Kantorow Ph.D.**

Human Genetics 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 genetics courses (PCB 4522 or PCB 3063) since these are general introductory genetics courses that do not specifically focus on human diseases and not appropriate for our programmatic requirements. The COM Human Genetics Course has completely different learning objectives then other genetics courses in biology or at FAU since it focuses on understanding the epidemiology, etiology, disease mechanisms and potential therapies for specific human genetic diseases. The instructor is uniquely qualified to teach this course having a Ph.D. specifically in genetics and a long track record of NIH funded research and published scholarship specific for human genetic 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: Biology Department Feedback on COM New Course Proposals-WE NEED A LETTER

Date: Monday, September 29, 2014 at 4:08:21 PM Eastern Daylight Time

From: William Brooks
To: Carolina Clark

CC: John Newcomer, David Bjorkman, Russell Ivy, Michelle Cavallo, Marc Kantorow, Rodney Murphey,

Kenneth Dawson Scully, David Binninger, Colin Hughes, Dale Gawlik, Andrew Oleinikov

Great! We look forward to helping move all of these courses towards approval! Again, for the record, the sentiment was to approve the Advanced Molecular and Cell Biology but clarifications to distinguish this course from our undergraduate course should be articulated.

# Randy

# W. Randy Brooks, PhD

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

http://www.sciencefam.edu/Briollegy/finentry/brooks.bitmi

http://www.science.fnu.odu/hiology/masters/masters.html

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

From: Carolina Clark

Sent: Monday, September 29, 2014 3:39 PM

To: William Brooks

Cc: John Newcomer; David Bjorkman; Russell Ivy; Michelle Cavallo; Marc Kantorow; Rodney Murphey; Kenneth Dawson Scully; David Binninger: Colin Hughes; Dale Gawlik; Carolina Clark; Marc Kantorow; Andrew Oleinikov

Subject: Re: Biology Department Feedback on COM New Course Proposals-WE NEED A LETTER

Dear Randy,

Thanks so much for your help and quick turn around time. We will go ahead and submit all 4 courses to the UGPC notting the concerns about Advanced Mol and Cel Biology course. We will also contact the instructor Dr. Oleinikov to obtain additional information distinguishing this course from the undergraduate molecular biology course that we will forward you as soon as we receive it.

Thank you again for your help and consideration.

Sincerely,

Marc.

From: William Brooks < wbrooks@fau.edu>
Date: Monday, September 29, 2014 at 2:59 PM

To: Marc Kantorow < mkantoro@fau.edu>

Cc: John Newcomer <<u>inewcomer@fau.edu</u>>, David Bjorkman <<u>dbjorkm1@health.fau.edu</u>>, Russell Ivy <<u>IVY@fau.edu</u>>, Michelle Cavallo <<u>MCAVALLO@fau.edu</u>>, Marc Kantorow <<u>mkantoro@fau.edu</u>>, Carolina Clark <<u>clarkc@fau.edu</u>>, Rodney Murphey <<u>RMURPHEY@fau.edu</u>>, Kenneth Dawson Scully <<u>kdawsons@fau.edu</u>>, David Binninger <<u>binninge@fau.edu</u>>, Colin Hughes <<u>Chughe@fau.edu</u>>, Dale Gawlik <<u>dgawlik@fau.edu</u>>, William Brooks <<u>wbrooks@fau.edu</u>>

Subject: RE: Biology Department Feedback on COM New Course Proposals-WE NEED A LETTER

# Hi Marc,

I thought it best if I communicate with you directly. First, Biology appreciates your quick turn-around on the new course proposals we sent your college. We, similarly, have tried to solicit our faculty to reply quickly. We received completed new course proposals from Biomed on Wednesday of last week and immediately sent them out to all potentially interested faculty. Although we did not get some responses (thus, the "no response" notation on the comments list), some comments requiring a response were made for the Advanced Molecular and Cellular Biology course - the remaining courses were fine (i.e., approved) as submitted.

We were asked by your program to reply quickly so that an Oct. 1st deadline of submitting your new courses to the University Programs Committee (UPC) could be met. So, again, we did our best in getting responses. I believe the questions raised can be addressed by the Biomed faculty who plan on teaching Advanced Molecular and Cellular Biology. However, I'm not sure if this can be done with only 48 hours left with your deadline. You "might" be able to go ahead and submit all of the courses to the UPC with the proviso that

additional comments may come in afterwards (again, I am not sure about this). In any case, the UPC will want these concerns brought up by some of our faculty to be clarified before they can be approved. We certainly know this can be inconvenient as one of the courses we recently sent your program was flagged by another college. Before we can move forward on that course, we will need to address their concerns. So please forward responses to our specific comments about Advanced Molecular and Cellular Biology to us (mcavallo@fau.edu & wbrooks@fau.edu). We will then immediately make sure the responses get to our faculty who raised the questions, and in turn ask for an immediate response back from them.

Clearly the system of course approvals has its requirements that are at times tedious. But we certainly want to help your program moving forward as you have done for us.

Cheers, Randy Brooks

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

http://www.science.fam.edu.friodogy/faculty/hysoka.html

http://www.szience.fam.edu/hjology/masters/masters.html

http://www.science.fau.edu/biokes/masters/masters-faus.html

From: Carolina Clark

Sent: Monday, September 29, 2014 2:12 PM

To: William Brooks

Cc: John Newcomer; David Bjorkman; Russell Ivy; Michelle Cavallo; Marc Kantorow; Rodney Murphey Subject: Re: Biology Department Feedback on COM New Course Proposals-WE NEED A LETTER

Dear Dr. Brooks,

Dr. Kantorow would really appreciate getting your response on the issues below.

Thanking you in advance for your assistance.

#### Carolina

From: Rodney Murphey < RMURPHEY@fau.edu>

Date: Monday, September 29, 2014 at 1:50 PM

To: Marc Kantorow < mkantoro@fau.edu > , Michelle Cavallo < MCAVALLO@fau.edu >

Cc: Carolina Clark <<u>clarkc@fau.edu</u>>, John Newcomer <<u>inewcomer@fau.edu</u>>, David Bjorkman <<u>dbjorkm1@health.fau.edu</u>>, Russell lvy <<u>IVY@fau.edu</u>>, William Brooks <<u>wbrooks@fau.edu</u>> Subject: Re: Biology Department Feedback on COM New Course Proposals-WE NEED A LETTER

Marc.

Please contact Dr Brooks Professor of Biology the Graduate Program Committee Chair. He handles these issues for Biology.

Cheers,

Rod

From: Marc Kantorow < mkantoro@fau.edu>
Date: Monday, September 29, 2014 1:23 PM
To: Michelle Cavallo < MCAVALLO@fau.edu>

Cc: Carolina Clark <<u>clarkc@fau.edu</u>>, John Newcomer <<u>inewcomer@fau.edu</u>>, David Bjorkman <<u>dbjorkm1@health.fau.edu</u>>, rmurphey <<u>rmurphey@fau.edu</u>>, Russell lvy <<u>lVY@fau.edu</u>>
Subject: Re: Biology Department Feedback on COM New Course Proposals-WE NEED A LETTER

Michelle-Thanks for the individual faculty votes. <u>Does this constitute course approval?</u> Could we get a letter from Dr. Brooks approving the courses as we provided for your courses? I think that is what the university graduate program committee needs.

Thanks, Marc

Marc Kantorow, Ph.D.
Professor and Director of Graduate Programs
Schmidt College of Medicine
777 Glades Rd. BC71 RM202
Florida Atlantic University
Boca Raton, FL 33431
561-297-2910 (office)
561-297-3806 (lab)
mkantoro@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 <<a href="mailto:RMURPHEY@fau.edu">RMURPHEY@fau.edu</a>, marc kantorow <a href="mailto:rmanuedu">RMURPHEY@fau.edu</a>, marc kantorow <a href="mailto:rmanuedu">RMURPHEY@fau.edu</a>, marc kantorow <a href="mailto:rmanuedu">RMURPHEY@fau.edu</a>, marc kantorow <a href="mailto:rmanuedu">Rantorow Rantorow Rantorow

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

Subject: Siclogy Department Feedback on COM New Course In Loosels.

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The dityou for sending College of Moduline's new years proposablish review for the biology Department. Please see the below femined realised provided by our Isoubly who touch related coursed.

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Professor and Biology Graduate Inogram Committee Chem

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- ii. Odin Hughes no tesnonse
- iii. Savid blanagus While a few topic, overlap with coarser in our department, it is not sufficient to recommend that the Managa Grejand coasse not be submitted. This is especially one because the proposed ratios in a graduate level tourse. It is his it will be not excellent coarse for a minimum of our graduate students. Please let me them if you have questions or need a more decaded explanation.
  - iv. King-hel Zhang response: Segarding college of medicing may courage I don't see any config. for "Human genetics", which focuses on human diseases.
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    - vi. Jahan Manaha no response
- of Tagothy Theteen inspire at Live reviewed the inside inconsist incommittee that graposed now course, Aurenal Lieffular and hadeoner (halogy, and had one offse following commerce) Their proposed course and course in the following that one made and Call course in that it will be alfibrated that one made and being and Call course in that it will be appropriately be and course and course and course and the course are included in the proposed form of the course and course as a "gradual introductory course in insection its like also state and course as a "gradual physical and course course and course as a "gradual relation of the course as a "gradual physical of the course course and the course and colors of the course are physical of the course of the course are consequent.

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 prereq, 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

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  - x. Gregory Pradaction responds to Stams like their ties the course would overlap significantly with your existing look will bin course.
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## 3. Neurobiology or Addiction

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- ii. Paria Godenatievage no responte
- III. See Canade Carry I don't have an issues which the proposed court dependencing of Addiction. On the contra y ' think it will be an enrillent auntion rathe. Neuroscience corriculum at FAU.
  - iv. Breude Claborno This course loote Pas to use.

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- a. James Cami-Diagra respected have just encovered the Cuitage of Needichie's new course property in immunology. This course is seclarically an immunology sequence fourse at the 5000 level. One would expect a prerequisite for this semicary but that one to the Contegs of Medicinal denot see any conflict with our immunology rough PCS 4233; which is a full upper level course. I surgest they may go ahead and chartus senious WC 02181.

Anglette Catallic

Administrative Assistant & Graduare Coordinates

Department of Biological Sciences

Parido Ausade University

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PH: 563-297-0384