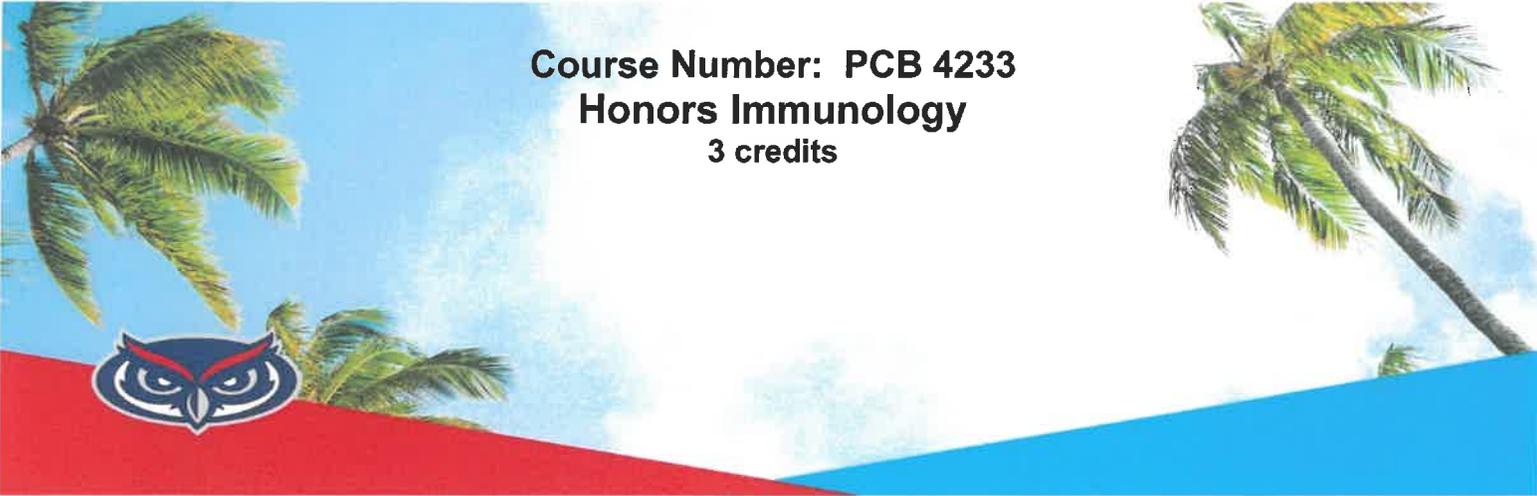


 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW COURSE PROPOSAL</b> <b>Undergraduate Programs</b>		UUPC Approval <u>3/27/23</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	<b>Department</b>  <b>College</b> <i>(To obtain a course number, contact <a href="mailto:erudolph@fau.edu">erudolph@fau.edu</a>)</i>		
<b>Prefix Number</b>	<i>(L = Lab Course; C = Combined Lecture/Lab; add if appropriate)</i>  <b>Lab Code</b>	<b>Type of Course</b>	<b>Course Title</b>
<b>Credits</b> <i>(See <a href="#">Definition of a Credit Hour</a>)</i>	<b>Grading</b> <i>(Select One Option)</i>  <b>Regular</b>  <b>Sat/UnSat</b>	<b>Course Description</b> <i>(Syllabus must be attached; see <a href="#">Template</a> and <a href="#">Guidelines</a>)</i>	
<b>Effective Date</b> <i>(TERM &amp; YEAR)</i>			
<b>Prerequisites, with minimum grade*</b>		<b>Corequisites</b>	<b>Registration Controls</b> <i>(Major, College, Level)</i>
<b>*Default minimum passing grade is D-. Prereqs., Coreqs. &amp; Reg. Controls are enforced for all sections of course</b>			
<b>WAC/Gordon Rule Course</b>  Yes                      No  WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to proposal. See <a href="#">WAC Guidelines</a> .		<b>Intellectual Foundations Program (General Education) Requirement</b> <i>(Select One Option)</i>  General Education criteria must be indicated in the syllabus and approval attached to the proposal. See <a href="#">Intellectual Foundations Guidelines</a> .	
<b>Minimum qualifications to teach course</b>			
<b>Faculty Contact/Email/Phone</b>		<b>List/Attach comments from departments affected by new course</b>	
<b>Approved by</b>			<b>Date</b>
Department Chair <u>Miguel Ángel Vázquez</u> <i>Rachel Conn</i>			<u>3/15/23</u> <u>3/14/23</u>
College Curriculum Chair _____			<u>3 20 2023</u>
College Dean <u>Julie Charles</u>			<u>3/27/23</u>
UUPC Chair <u>Ethlyn Williams</u>			<u>3/27/23</u>
Undergraduate Studies Dean <u>Dan Meeroff</u>			<u>3/27/23</u>
UFS President _____			_____
Provost _____			_____

Email this form and syllabus to [mjenning@fau.edu](mailto:mjenning@fau.edu) seven business days before the UUPC meeting.



**Course Number: PCB 4233**  
**Honors Immunology**  
**3 credits**

## **Course Description**

This is an honors course focuses on the scientific study of the immune system as it pertains to the human body's defense system to prevent disease. Topics include immune system development, humoral & cell-mediated immunity, disease and treatments involving immunization, immunodeficiency, autoimmunity, and biotherapeutics. Topics will cover both systemic and molecular and cellular interactions of the immune system as it works to distinguish self from non-self.

**NOTE ON HONORS DISTINCTION:** This Honors course differs from a non-Honors course in the work and intellectual demands it places on students. In addition to the textbook readings, students will read articles published by professional scholars in peer-reviewed journals and are expected to think critically about the debates within the field.

## **Instructional Method**

This is an in-person course with a face-to-face delivery mode. Students should attend only their registered course sections. At this time, in-person attendance for exams and in-class assessments are required.

## **Prerequisites**

MCB 3020, PCB 3063, or permission of instructor.

## **Course Objectives/Student Learning Outcomes**

- Demonstrate an understanding of the principles of immunological processes
- Use appropriate terminology to communicate information related to immunology and disease
- Synthesize primary research articles to examine issues related to immunology from evidence-based perspective
- Describe how the immune system is able to discriminate self vs. non-self.
- Compare and contrast the innate and adaptive immune systems and explain how they work together to generate an effective immune response against a specific pathogen.

- Explain the molecular processes that enable the immune system to respond to so many diverse antigens.
- Describe the various steps and checkpoints involved in lymphocyte development.
- Identify major functions of key immune cells and predict the impact of disruption in each cell type.
- Describe the application of biotherapeutics to various human diseases.
- Apply immunological concepts to real- world situations (disease, life-style choices, homeostatic imbalances).
- Effectively communicate knowledge/understanding of immunology to different audiences and applications.

## Course Evaluation Method

The course grade will be determined from student performance on four examinations accounting for 60% of your grade, Presentation of Case Studies accounting for 20% of your grade and the ***"InQuisitive"*** homework assignment that will make up the remaining 20%.

<u>Summary of Grade Breakdown:</u>	Case Studies:	20%
	Assignments:	20%
	Exams:	<u>60%</u>
	<b>Total:</b>	<b><u>100%</u></b>

**Exams:** The exams will cover topics discussed in 3-5 lectures and readings. They will consist of a combination of multiple-choice questions, fill in the blank & short answer responses.

**Case Studies:** Student groups will be expected to present various case studies to the class and moderate questions associated with their presentations. The presentation should be 15-20min with 5 to 10min of discussion. There will be 3-4 presentations per presentation day. Students are expected to participate in class and during presentations via discussions and answering assigned questions.

**Assignments:** Students are expected to do the homework assignments associated with the chapters covered from the textbook ***"InQuisitive"*** before the due date.

## Course Grading Scale

The following scale will be used for computing the final grade.

A = 93 -100%	B- = 80 - 83%	D = 64-66%
A- = 90 - 92%	C+ = 77-79%	D - = 60-63%
B+ = 87 - 89%	C- = 70-73%	F = 0 - 59
B = 84 - 86%	D+ = 67-69%	

## Policy on Makeup Tests, Late Work, and Incompletes:

Attendance for exams is required. If a student cannot attend an exam on time due to circumstances beyond their control, then the instructor may assign appropriate make-up.

***Students will not be penalized for absences due to participation in military exercises, court-imposed legal obligations, religious observations, or university-approved activities, including athletic or scholastics teams, musical and theatrical performances, and debate activities. Students that have such conflicts MUST notify me 1 week in advance of their absence.***

Incomplete Grade: A grade of Incomplete ("I") is reserved for students who are passing a course but have not completed all the required work because of exceptional circumstances. A grade of "I" will only be given under certain conditions and in accordance with the academic policies and regulations put forward in FAU's University Catalog. The student must show exceptional circumstances why requirements cannot be met. A request for an incomplete grade should be made in writing with supporting documentation, where appropriate. As per university policy, an incomplete grade will only be given to a student who fulfills all the following criteria:

- a. missed multiple exams or the final examination due to a legitimately documented emergency as defined by the FAU Academic Policies and Regulation (<http://www.fau.edu/academic/registrar/FAUcatalog/academics.php>)
- b. has a grade of C or better
- c. submits evidence of the emergency and signs an incomplete agreement.

## **Special Course Requirements:**

The following E- textbook is required for the course:

***Janeway's Immunobiology (10<sup>th</sup> Edition) with Ebook + InQuizitive + Animations + Case Studies in Immunology ebook***

*Authors: Kenneth Murphy, Casey Weaver, Leslie Berg*

*ISBN: 978-0-393-88487-6*

## **Classroom Etiquette Policy**

**Classroom Etiquette Policy:** University policy on the use of electronic devices states: **"In order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular telephones and pagers, are to be disabled in class sessions."** Your attention and silence are expected. You may be asked to leave the class session for noncompliance with any of the aforementioned. If you are asked to leave the class, all points for that day will be forfeited, and you may receive a deduction to your final grade.

### **Announcements**

Students are responsible for reading all announcements posted on Canvas. Check the course announcements each time you log in. Please change your Canvas profile so that you receive all notifications by FAU email too.

Please, use your FAU email account for all course communications.

## **Policy on the Recording of Lectures**

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

## **Attendance Policy**

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

## **Counseling and Psychological Services (CAPS) Center**

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

## **Disability Policy**

*In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow*

*all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at [www.fau.edu/sas/](http://www.fau.edu/sas/).*

## **Code of Academic Integrity**

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. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

## **Course Topical Outline**

This schedule is subject to change at any time by the instructor, depending on the needs of the class. The reading assignments for the class will come from the textbook. Changes may be announced online via Canvas or verbally in class.

<b>Week</b>	<b>Topic</b>	<b>Chapter</b>
1	Basic Concepts in Immunology	1
	Innate Immunity: The First Lines of Defense	2
2		
	Cellular Mechanisms of Innate Immunity	3
3	Antigen Recognition by B-cell and T-cell Receptors	4
	The Generation of Lymphocyte Antigen Receptors	5
4	<b>Review I</b>	
	<b>Exam I: Chapters 1-5</b>	
5	Antigen Presentation to T Lymphocytes	6
	Lymphocyte Receptor Signaling	7
6	The Development of B and T Lymphocytes	8
	<b>Review II</b>	
7	<b>Exam II: Chapters 6-8</b>	
	T Cell–Mediated Immunity	9
8	The Humoral Immune Response	10
	Integrated Dynamics of Innate and Adaptive Immunity	11
9	The Barrier Immune System	12
	<b>Review III</b>	
10	<b>Exam III: Chapters 9-12</b>	

	Failures of Host Defense Mechanisms	13
11	Allergic Diseases and Hypersensitivity Reactions	14
	Autoimmunity and Transplantation	15
12	Manipulation of the Immune Response	16
	<b>Review IV</b>	
13	<b>Exam III: Chapters 13-16</b>	
	<i>Case Studies &amp; Questions</i>	
14	<i>Case Studies &amp; Questions</i>	
	<i>Case Studies &amp; Questions</i>	
15	<i>Case Studies &amp; Questions</i>	
	<i>Case Studies &amp; Questions</i>	

## Writing Portfolio & Writing Center

In addition to the Forum Paper and as a graduation requirement, Honors college students must submit one essay written during their 1<sup>st</sup> or 2<sup>nd</sup> years at the Honors College as part of their Writing Portfolio. Please consider submitting the final paper/essay for this course as your second paper as it meets the Writing Portfolio requirements. Papers for the Writing Portfolio must be submitted through Canvas. When you are eligible for review, you will receive an invitation to join a Canvas course for the writing portfolio review. Accept this invitation and submit your essay as directed. You are strongly encouraged to visit the University Center for Excellence in Writing (UCEW) for assistance with the writing process.

**FW: Requesting support for course proposal**

William O'Brien <[wobrien@fau.edu](mailto:wobrien@fau.edu)>

Thu 1/26/2023 1:17 PM

To: Kelsie Bernot <[kbernot@fau.edu](mailto:kbernot@fau.edu)>

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**From:** Sarah Milton

**Sent:** Thursday, January 26, 2023 1:08 PM

**To:** William O'Brien <[wobrien@fau.edu](mailto:wobrien@fau.edu)>

**Subject:** Re: Requesting support for course proposal

Good afternoon Bill - Biology has no objection to the Honors College converting a Special Topics course into Honors Immunology (PCB 4233) as an addition to your program.

Best,  
Sarah

Dr. Sarah L. Milton  
Professor and Chair  
Department of Biological Sciences  
FAU

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**From:** William O'Brien <[wobrien@fau.edu](mailto:wobrien@fau.edu)>

**Sent:** Thursday, January 26, 2023 10:58 AM

**To:** Sarah Milton <[smilton@fau.edu](mailto:smilton@fau.edu)>

**Subject:** Requesting support for course proposal

Hi Sarah,

The honors college is submitting a new course proposal to create Honors Immunology (PCB 4233). We're currently teaching it under the special topics number, but one of our biology faculty will be teaching it regularly going forward and therefore we'd like to add it to our catalog. Because we are using a course number in your catalog, we need your agreement to proceed through the curriculum process. Can you please send me a brief note supporting this proposal? Please let me know if you have any questions.

Best,

Bill

William E. O'Brien  
Chair and Professor of Environmental Studies  
Wilkes Honors College, Florida Atlantic University  
561-799-8033