

EDISON STATE COMMUNITY COLLEGE**MLT 211****Immunology MLT 211-801US****SYLLABUS PART II**

Instructor: Vickie Kirk

Email: vkirk@edisonohio.edu

QUALIFICATIONS: MBA, Bluffton University 2008; MLS, Indiana University of Pennsylvania 1997

Office:311 email to set up an appointment as needed

Phone:381-1505

Class: Online

Week 1 • Introduction to Immunology • Innate Immunity • Acquired Immunity • Active vs. Passive Immunity	Complete activities in weekly modules by Sunday at 11:59pm Week 1 Quiz due Sunday at 11:59pm
Week 2 • Inflammatory response • Components of the Acquired/Adaptive Immune system. • Describe the origin of Immune cells.	Week 2 Quiz due Sunday at 11:59pm
Week 3 • Understand the Origin of cells review. • Understand the Primary and Secondary immune response • Understand the function of T cells and B cells	Week 3 Quiz due Sunday at 11:59pm
Week 4 • Define MHC • Understand the activation of T cells and B cells • Differentiate between CD 4 and CD 8 cells	Week 4 Quiz due Sunday at 11:59pm
Week 5 • Name the 5 classes of Antibodies • Differentiate the 5 classes of Antibodies • Understand the Antibody response	Week 5 Quiz due Sunday at 11:59pm
Week 6 • Define Autoimmunity • List several Autoimmune disorders. • Understanding the ANA test • Understand HLA typing and engraftment	Week 6 Quiz due Sunday at 11:59pm
Week 7	

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• Understand Hypersensitivity reactions • Describe the differences between Hepatitis A, B, and C	Week 7 Quiz due Sunday at 11:59pm
Week 8 • Describe clinical symptoms and laboratory findings in Mononucleosis/EBV • Describe clinical symptoms and laboratory findings in CMV, HIV, and Rubella • Understand the laboratory method of Flow cytometry • Understand the methodology behind the following tests:VDRL, RPR, CRP, ASO, Cold agglutinins, Rheumatoid Factor, Paul Bunnel, Davidson differential, and HCG	Week 8 Final due Sunday at 11:59pm

Objectives:

- Define and use the terminology related to the study of immunology.
- Describe specific and non-specific immune mechanics that protect the host.
- Describe the clinical features of congenital abnormalities of the immune system.
- List the different immunoglobulin classes and describe the characteristics and functions of each.
- State the factors which activate the complement system and outline the steps in its activation.
- State the current theories of autoimmunity for each autoimmune disease and list the clinical and diagnostic findings.
- Compare and contrast immediate and delayed hypersensitivity in relation to immunological reactions.
- Describe the theories and findings in transplant immunology in relation to HLA antigens and immunological tolerance.
- Describe the purpose, principle, procedure, interpretation, and results for: VDRL, RPR, CRP, ASO, Cold agglutinins, Rheumatoid Factor, Paul Bunnel, Davidson differential, and HCG.
- Describe the principle for agglutination tests, reverse passive (HEM) agglutination, precipitation, Elek test, radial immunodiffusion, immunoelectrophoresis, rocket electrophoresis, counterelectrophoresis, complement fixation, fluorescent antibody (direct and indirect), and neutralization tests.

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GRADING:

The grading scale for the MLT program is:

100-93 = A

92-83 = B

82-75 = C

Below 74.5 is failing

Assignment	Points
Final	170
Test	181
Assignments	2154

Professionalism/Attitudinal: (See Student Handbook)

The following professional behavior/attitudes will be assessed during the semester:

Ability to follow instructions

Punctuality and Attendance

Interest and Enthusiasm

Integrity

Organization

Persistence

Cost Containment

COMMUNICATION

Announcements and emails are available through the blackboard system. Periodically check for class announcements. If there is an urgent message, announcements will be sent to all students via e-mail. Instructors usually check e-mail daily, which will be the easiest way to contact them with questions or problems. The instructor will get back to you within 24-48 hours. If they have not responded with in 48 hours, please email them again. I reserve Sundays for family so I will usually not be responding on Sundays.

RESPECTFUL DIALOGUE

We all come to the table with differing experiences and viewpoints, which means that we have so much to learn from each other. In order to get the most out of this opportunity, it is important that we don't shy away from differences. Rather, we should show respect for differences by seeking to understand, asking questions, clarifying our understanding, and/or respectfully explaining our own perspective. This way, everybody comes away with new perspectives on the issue and respecting others with different values or beliefs.

If someone says something that bothers you for any reason, assume that your peer did not mean to be offensive and ask your peer to clarify what they meant. Then explain the impact it had on you. If your classmates tell you that something you said or wrote bothered them, assume that they are not attacking you, but rather that they are sharing something that might be important for you to know.

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AI COURSE POLICY

For this course, YOU must be the author of all coursework. You may use AI in some minor or non-substantive ways.

The use of generative AI tools (such as ChatGPT) is permitted in this course for the following activities:

- Brainstorming and refining your ideas
- Drafting an outline to organize your thoughts
- Checking grammar and style

The use of AI tools is not permitted in this course for the following activities:

- Writing a draft of an assignment
- Writing entire sentences, paragraphs, or papers to complete class assignments

Your use of AI tools must be properly documented and cited to stay within college policies on academic honesty.

Any assignment that is found to have used generative AI in unauthorized ways will be reported for academic misconduct. If in doubt about permitted usage, please ask for clarification.

EDISON STATE COMMUNITY COLLEGE ACADEMIC HONESTY

Cheating and plagiarism will not be tolerated in this course. Students who cheat or allow others to copy from their papers will receive a zero on the assignment in question. The ECC Academic Honesty Policy will be adhered to in this course. See the Student Handbook at <https://www.edisonohio.edu/Student-Resources/>

ACCOMMODATIONS /ACCESSIBILITY AND DISABILITY SUPPORT SERVICES POLICY

Edison State Community College will make reasonable accommodations for students with documented disabilities. If you believe you may need an accommodation based on the impact of a disability, contact the instructor privately with your self-identification letter. If you do not have a self-identification letter, contact Accessibility and Disability Support Services by emailing disabilities@edisonohio.edu or by calling 937.778.7850. Accessibility and Disability Support Services is located on the Piqua Campus in Room 160.

ADVISING SERVICES

Edison State's career pathway advisors are your partners in success. A career pathway advisor is the first advisor that you will meet with once you have made the decision to further your education. Together, you and your career pathway advisor will:

- Identify the right academic major to set you on your desired career path.
- Identify the courses you'll need to accomplish your academic goals.
- Help you develop a student plan tailored to your lifestyle and work schedule.
- Prepare you to navigate your first semester at Edison State.

You can find your career pathway advisor and faculty advisor information, including their email address, by logging into MyESCC and clicking on Student Planning. Go to Plan and Schedule and click on the Advising tab. You may also call 937-778-7850 to connect via phone call.

BOOKSTORE SERVICES

The Edison State Bookstore is here for all your educational supplies including textbooks, access codes, technology, and more! Online at <https://edisonohio.ecampus.com>

CAREER AND JOB SERVICES

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Our Career and Job Services advisors are dedicated to helping students and alumni advance their professional development as they make career decisions, develop job search strategies, pursue experiential opportunities and secure employment. Career and Job Services also provides career assessments, career information, resume and cover letter help, job postings and resources, tips for interviewing and more. Visit <https://www.edisonohio.edu/Career-and-Job-Services/> for more information.

COMPUTERS

If you are working on campus, computers with internet access are available in the internet café. The Library and Tutoring Center has computers and printers available for your use.

STUDENT WELLNESS

College is stressful! Feeling burnt out, anxious, frustrated? When challenges arise, it's helpful to have someone to talk to. We have partnerships established with many local mental health providers and can connect you with area resources.

SUPPORT SERVICES AVAILABLE

Edison State has built a network of health professionals to support students. With these partnerships, students who need support in areas such as:

- Recovery and counseling referral
- Housing
- Food
- Physical well-being

INFORMATION AND EDUCATION

We also provide information and education on the topics of:

- Alcohol and drug abuse and prevention
- Sexual assault prevention and awareness
- Building healthy relationships
- Inclusion and belonging
- Survivor support
- Self-care
- Anti-hazing

GETTING HELP

If you are struggling and need to speak with someone in person, please reach out to Dr. J Passmore, Dean of Student Affairs, at jpassmore@edisonohio.edu, 937-778-7895, Room 160 (stop at the front desk).

EMERGENCY RESOURCES

If this is a medical emergency, please call 911. If this is a mental health emergency, please call 988.

LIBRARY SERVICES

The Edison State library is not only a comfortable place to study, we have an expansive collection of online resources available to help you with your research. Check out the library webpage here:

<https://www.edisonohio.edu/Library/>. Libguides and short instructional videos are available to help you use these

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resources and can be found at: <https://libguides.edisonohio.edu/>. Please contact the library staff with any library questions you may have at library@edisonohio.edu, 937-778-7950, or stop in!

STUDENT RESOURCE CENTER AND CHARGER STATION FOOD PANTRIES

Edison State Community College is proud to assist students needing help to obtain basic necessities. The Student Resource Center and Food Pantry is stocked with all kinds of grab-and-go snacks, meal supplies, toiletries, household needs, and community resources. Stop by and check out our Charger Stations in Room 060 at Piqua, in the student lounge at Troy, in the Brooke-Gould Learning Resource Center at Eaton, and in Room 121 (for personal care items) and pantry items in the student lounge at Greenville.

TECHNICAL SUPPORT SERVICES

For Blackboard Assignment issues, the instructor should be the first point of contact.

For Log-in or other technology issues: There are several steps you can follow if you have issues logging in to Blackboard or Office.

During business hours:

- Password reset: Log onto office.com with your Edison email and follow the "forgot password" prompts.
- Reach out for help during regular business hours (9-5 Monday-Thursday, 9-4 Friday)
 - email to support@edisonohio.edu
 - call 937-778-8600 and ask for IT Help Desk

After hours:

- Password reset: Log onto office.com with your Edison email and follow the "forgot password" prompts
- Go to www.edisonohio.edu into the Resources tab and click "IT Help Desk" then click "Chat".
- Call 937-778-7957 and talk to the off-campus Blackboard company to get help

TESTING YOUR FAITH ACT POLICY

Edison State Community College is committed to providing an environment respectful of students' beliefs. Students are permitted to be absent for up to 3 days each semester based on their faith, religion, or spiritual belief system with no academic penalty. Students must complete the Testing Your Faith Act Accommodations Form, <https://www.edisonohio.edu/Registration-and-Records/> and provide a copy to their individual faculty within 14 days from the start of the course. The entire policy can be found in the student handbook at <http://stage.edisonohio.edu/digipub/StudentHandbook/index.html>

TITLE IX STATEMENT - Anti-Discrimination, Harassment and Bullying

It is the policy of the College to maintain a learning environment free from bullying, discrimination, sexual harassment or sexual violence. Title IX federal law protects students, employees and third parties with a relationship to the college.

All Edison State Community College employees are required to report all knowledge of incidents that violate the Title IX policy to the Title IX Coordinator or Deputy Title IX Coordinator immediately. Student and employee confidential consultation is available through the Coordinator of Health and Wellness Services.

Title IX Policy and procedure language as well as contact information for the Coordinator of Health and Wellness, Title IX Coordinator and Deputy Title IX Coordinator can be found at www.edisonohio.edu/TitleIX/.

TUTORING SERVICES

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All Edison State students are eligible to receive free tutoring and learning support services through our Tutoring Center. Available services include Edison State tutors, both online and in-person, covering a wide variety of courses including various levels of math and paper reviews, online tutoring through OhioLINK eTutoring, distraction-reduced study rooms, and the use of Tutoring Center resources including subject-specific and general study guides. For more information on tutoring services, visit the Tutoring Center in the Library, email us at tutoringcenter@edisonohio.edu, call 937-778-7959, or visit our webpage at <https://www.edisonohio.edu/tutoring-center/>

ADDITIONAL SUPPORT SERVICES

For additional help, please click the ASSIST tab on Blackboard or the Edison State Student Resources folder within your course.