

## BIOL 3703 - Clinical Immunology

Fall 2026 Syllabus, Section 01, CRN 40488,

Credit hours: 3

### Instructor

Li Sui

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### Public Instructor Information

Instructor Title: Lecturer

Instructor Professional Qualifications:

M.S., Biological Science, The University of Hawaii at Manoa, 1995

Bachelor's, Plant Genetics, China Agricultural University, 1991

Graduate Certificate, Mathematics, Youngstown State University, 2020

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### Course Description

3703. Clinical Immunology. Fundamentals of immunology, including both humoral and cellular immunological responses. Applications of immunological methods in medical research and patient treatment. Prereq.: BIOL 2601 or BIOL 2603 and BIOL 3702. 3 s.h.

### Course Readings

| Group    | Title                          | Author       | ISBN              |
|----------|--------------------------------|--------------|-------------------|
| Required | The immune system, 6th edition | Peter Parham | 978-1-324-10478-0 |

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

### Tentative Course Schedule (subject to change)

| Day | Date | Reading(s) | Proposed Topic                                           | Due/To Prepare for Class |
|-----|------|------------|----------------------------------------------------------|--------------------------|
| Mon | 8/24 | Syllabus   | Introduction                                             |                          |
| Wed | 8/26 | Chapter 1  | Elements of the Immune System and Their Roles in Defense |                          |
| Fri | 8/28 | Chapter 1  | Elements of the Immune System and Their Roles in Defense |                          |
| Mon | 8/31 | Chapter 1  | Elements of the Immune System and Their Roles in Defense |                          |
| Wed | 9/2  | Chapter 2  | Innate Immunity: The Immediate Response to Infection     |                          |
| Fri | 9/4  | Chapter 2  | Innate Immunity: The Immediate Response to Infection     | Chapter 1 homework due   |
| Mon | 9/7  | No Class   |                                                          |                          |
| Wed | 9/9  | Chapter 3  | Innate Immunity: The Induced Response to Infection       |                          |
| Fri | 9/11 | Chapter 3  | Innate Immunity: The Induced Response to Infection       | Chapter 2 homework due   |
| Mon | 9/14 | Chapter 3  | Innate Immunity: The Induced Response to Infection       |                          |

|     |       |                              |                                                              |                                |
|-----|-------|------------------------------|--------------------------------------------------------------|--------------------------------|
| Wed | 9/16  | Chapter 4                    | Antibody Structure and the Generation of B-Cell Diversity    |                                |
| Fri | 9/18  | Chapter 4                    | Antibody Structure and the Generation of B-Cell Diversity    | Chapter 3 homework due         |
| Mon | 9/21  | Chapters 1, 2 & 3            | Exam 1                                                       |                                |
| Wed | 9/23  | Chapter 4                    | Antibody Structure and the Generation of B-Cell Diversity    |                                |
| Fri | 9/25  | Chapter 4                    | Antibody Structure and the Generation of B-Cell Diversity    |                                |
| Mon | 9/28  | Chapter 5                    | Antigen Recognition by T Lymphocytes                         |                                |
| Wed | 9/30  | Chapter 5                    | Antigen Recognition by T Lymphocytes                         |                                |
| Fri | 10/2  | Chapter 5                    | Antigen Recognition by T Lymphocytes                         | Chapter 4 homework due         |
| Mon | 10/5  | Chapter 6                    | The Development of B Lymphocytes                             |                                |
| Wed | 10/7  | Chapter 6                    | The Development of B Lymphocytes                             |                                |
| Fri | 10/9  | Chapter 6                    | The Development of B Lymphocytes                             | Chapter 5 homework due         |
| Mon | 10/12 | Chapter 7                    | The Development of T Lymphocytes                             |                                |
| Wed | 10/14 | Chapter 7                    | The Development of T Lymphocytes                             | Chapter 6 homework due         |
| Fri | 10/16 | Chapters 4,5 & 6             | Exam 2                                                       |                                |
| Mon | 10/19 | Chapter 7                    | The Development of T Lymphocytes                             |                                |
| Wed | 10/21 | Chapter 8                    | T Cell–Mediated Immunity                                     |                                |
| Fri | 10/23 | Chapter 8                    | T Cell–Mediated Immunity                                     | Chapter 7 homework due         |
| Mon | 10/26 | Chapter 8                    | T Cell–Mediated Immunity                                     |                                |
| Wed | 10/28 | Chapter 9                    | Immunity Mediated by B Cells and Antibodies                  |                                |
| Fri | 10/30 | Chapter 9                    | Immunity Mediated by B Cells and Antibodies                  | Chapter 8 Homework due         |
| Mon | 11/2  | Chapter 9                    | Immunity Mediated by B Cells and Antibodies                  |                                |
| Wed | 11/4  | Chapter 9                    | Immunity Mediated by B Cells and Antibodies                  |                                |
| Fri | 11/6  | Chapter 10                   | Preventing Infection at Mucosal Surfaces                     |                                |
| Mon | 11/9  | Chapters 10 & 11             | Preventing Infection at Mucosal Surfaces                     | Chapter 9 homework due         |
| Wed | 11/11 | No Class                     |                                                              |                                |
| Fri | 11/13 | Chapter 7, 8 & 9             | Exam 3                                                       |                                |
| Mon | 11/16 | Chapter 11                   | Immunological Memory and Vaccination                         | Chapter 10 homework due        |
| Wed | 11/18 | Chapter 14                   | Failures of the Body's Defenses                              |                                |
| Fri | 11/20 | Chapter 14                   | Failures of the Body's Defenses                              | Chapter 11 homework due        |
| Mon | 11/23 | chapter 15                   | Allergy and the Immune Response to Parasites                 | Chapter 14 homework due        |
| Wed | 11/25 | No Class                     |                                                              |                                |
| Fri | 11/27 | No Class                     |                                                              |                                |
| Mon | 11/30 | ChapterS 15 & 17             | Disruption of Healthy Tissue by the Adaptive Immune Response |                                |
| Wed | 12/2  | Chapter 17                   | Disruption of Healthy Tissue by the Adaptive Immune Response | Chapter 15 homework due by 5pm |
| Fri | 12/4  | Chapters 10, 11, 13, 14 & 16 | Exam 4                                                       |                                |
| Mon | 12/7  | No Class                     |                                                              |                                |
| Wed | 12/9  | No Class                     |                                                              |                                |
| Fri | 12/11 | No Class                     |                                                              |                                |

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.