

BIOL 3702L - Microbiology Laboratory

Fall 2026 Syllabus, Section 05, CRN 40487,

Credit hours: 1

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

3702L. Microbiology Laboratory. Fundamental and applied technical skills acquired through laboratory experiences to include proper handling, microscopy, culture, and biochemical identification of microorganisms. Two 1.5-hour laboratory sessions per week. Prereq.: BIOL 2601 or BIOL 2603. Coreq.: BIOL 3702. 1 s.h.

Course Readings

Group	Title	Author	ISBN
	No Readings		

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

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	To Be Assigned from Lab Manual	Introduction and Use of the Microscope	Virtual Labs; Safety Quiz
	To Be Assigned from Lab Manual	Aseptic Technique; Streak Plate	Virtual Labs; Lab Report; Skills Test I
8/31	To Be Assigned from Lab Manual	Simple Staining	Virtual Labs
9/7	To Be Assigned from Lab Manual	Gram and Endospore Staining	Virtual Labs; Skills Test II
9/14	To Be Assigned from Lab Manual	Growth Responses	Virtual Labs; Lab Report; Skills Test III
9/21	To Be Assigned from Lab Manual	Kirby-Bauer Assay and Dilution Counting	Virtual Labs
9/28	To Be Assigned from Lab Manual	Cocci Diagnostics I	Virtual Labs; Lab Report
10/5	To Be Assigned from Lab Manual	Cocci Diagnostics II	Virtual Labs
10/12	To Be Assigned from Lab Manual	Diagnostic Assays I	Virtual Labs
10/19	To Be Assigned from Lab Manual	Diagnostic Assays II	Virtual Labs; Lab Report
10/26	To Be Assigned from Lab Manual	Bacterial Unknowns (Skill Test IV)	Virtual Labs
11/2	To Be Assigned from Lab Manual	Skill Test IV continued	Virtual Labs
11/9	To Be Assigned from Lab Manual	Skill Test IV continued	Virtual Labs
11/16	To Be Assigned from Lab Manual	Complete Skill Test IV	Lab Report
11/23	To Be Assigned from Lab Manual	Isolation of Enterococci from Water	Lab Report
11/30	To Be Assigned from Lab Manual	Comprehensive Final Exam	

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.