

BIOL 3702L - Microbiology Laboratory

Fall 2026 Syllabus, Section 02, CRN 40486,

Credit hours: 1

Instructor

Li Sui

Email: lsui@ysu.edu

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

Office: Ward Beecher Hall 4032

Office Phone: 330-941-2273

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

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