

BIOL 3762L - Field Botany Laboratory

Fall 2026 Syllabus, Section 01, CRN 43356,

Credit hours: 0

Instructor

Santosh Rana Magar

Email: skranamagar@ysu.edu

Public Instructor Information

Instructor Title: *Assistant Professor*

Instructor Professional Qualifications: **PhD (Botany, Kunming Institute of Botany, 2020); Master's in Science (Botany, Tribhuvan University, 2015);**

Bachelor's in Science (Botany, Tribhuvan University, 2011)

Instructor Office Location: **#3035B Ward Beecher**

Instructor Office Phone: **330-941-7122**

Course Description

3762L. Field Botany Laboratory. Field Botany Laboratory. 0 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Newcomb's Wildflower Guide. Little Brown & Company	Newcomb, L. (1977)	

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

Field Botany Laboratory

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Thu	8/27	Field/lab safety and project guidelines	Course Introduction & Field Botany Skills – Safety, field notebooks, botanical observation, introduction to herbarium and invasive-species projects	Field notebook; appropriate field clothing
Thu	9/3	Selected plant-identification materials	Plant Identification in the Field – Vegetative morphology, diagnostic characters, and field identification	Review botanical terminology
Thu	9/10	Selected field guide/key	Dichotomous Keys & Plant Identification – Keying common local plants and recording diagnostic characters	Identification/keying practice
Thu	9/17	Selected field guide	Field Survey I – Local Flora – Plant identification, habitat observations, and field documentation	Field notes and preliminary species records
Thu	9/24	Herbarium collection guidelines	Botanical Collection & Herbarium Techniques – Ethical collection, field numbers, pressing, and specimen documentation	Begin herbarium collection
Thu	10/1	Selected field guide	Field Survey II – Plant Collection & Identification – Collection of appropriate specimens and field documentation	Specimens + field records

Thu	10/8	Selected invasive-plant resources	Introduction to Ohio Invasive Plants – Recognition, identification, field characteristics, and documentation methods	Review target invasive species
Thu	10/15	Selected invasive-species identification materials	Invasive Species Field Survey I – Identification, photographs, locality, habitat, and occurrence documentation	Project field records
Thu	10/22	Herbarium preparation guidelines	Herbarium Preparation I – Pressing, drying, identification verification, and label preparation	Herbarium progress check
Thu	10/29	Selected invasive-species resources	Invasive Species Field Survey II – Continued documentation and habitat/ecological observations	Updated invasive-species records
Thu	11/5	Herbarium labeling guidelines	Herbarium Preparation II – Mounting, labeling, and specimen quality assessment	Draft herbarium labels
Thu	11/12	Selected identification resources	Identification Workshop – Verification of herbarium specimens and invasive-plant records	Preliminary identified specimen set
Thu	11/19	Project/data guidelines	Invasive Species Project – Data Organization & Interpretation – Compile occurrence, habitat, photographs, and field observations	Completed field dataset/records
Thu	11/26	No Class		
Thu	12/3	Project guidelines	Project Synthesis & Herbarium Completion – Final specimen verification and invasive-species project preparation	Final Herbarium Collection due
Thu	12/10		Ohio Invasive Species Project Presentation & Course Synthesis	Final Invasive Species Project due/presentation

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.