

# *Practical Skills for Terrestrial Ecosystem Restoration* Syllabus

ENR 4800 AU25

## Course Information

- **Course times and location:** Fridays, 8:00am – 12:10pm. Meet in the car park for the Poultry Brooding House at Chadwick Arboretum North. The address is 2235 Fred Taylor Dr, Columbus, OH 43210.
- **Credit hours:** 2
- **Mode of delivery:** In-person

## Instructor

- **Name:** Jo Peacock, PhD
- **Email:** [peacock.104@osu.edu](mailto:peacock.104@osu.edu)
- **Phone number:** 614-292-2265 (SENR Main Office)
- **Office location:** 367A Kottman Hall
- **Office hours:** Tuesdays and Thursdays, 11am – 12pm
- **Preferred means of communication:**
  - My preferred method of communication for questions is directly through my **Ohio State email address**, NOT the Carmen messaging tool.
  - My class-wide communications will be sent through the Announcements tool in CarmenCanvas. Please check your [notification preferences](https://go.osu.edu/canvas-notifications) (go.osu.edu/canvas-notifications) to be sure you receive these messages as emails.

## Instructional Associate

- **Name:** Kirsten Packer
- **Email:** [packer.77@osu.edu](mailto:packer.77@osu.edu)



- **Phone number:** 614-292-2265 (SENR Main Office)
- **Office location:** 412A Kottman Hall
- **Office hours:** Open door policy
- **Preferred means of communication:**
  - My preferred method of communication for questions is directly through my **Ohio State email address**, NOT the Carmen messaging tool.
  - My class-wide communications will be sent through the Announcements tool in CarmenCanvas. Please check your [notification preferences](https://go.osu.edu/canvas-notifications) (go.osu.edu/canvas-notifications) to be sure you receive these messages as emails.

## Teaching Assistant

- **Name:** Luz Mercado
- **Email:** mercadocallau.1@buckeyemail.osu.edu
- **Recitation times:** TBC

## Course Prerequisites/Co-Requisites

Prerequisites: ENR 3800 (*Principles and Tools for Ecosystem Restoration*) or permission from the instructor.

## Course Description

**Overview:** This course develops practical skills in restoration ecology and gives the ability to implement restoration management plans. This includes invasive species control, planting native species, seed collection, soil seedbank assays, plant propagation, and ground preparation.

Developing workable solutions to restoration challenges, and understanding the ecological dynamics of systems undergoing restoration, requires a thorough appreciation of the techniques involved in restoration and the constraints on their application. This course aligns our specialization with the Society for Ecological Restoration's statement that programs should train "professionals who understand not only the science of restoration ecology but also the management practices and social factors that lead to successful project implementation". This course will provide students with the opportunity to develop practical skills relevant to restoration ecology. The course will introduce students to key skills including: ecological mapping and monitoring, manual and chemical techniques for invasive control, out-planting of



native species, seed collection, plant propagation, ground preparation and erosion control. As part of the course, students will complete training in chainsaw safety, pesticide safety and Occupational Health and Safety certification for key tasks.

**Important Note:** This course will involve using hazardous equipment such as hand tools, powered machinery and herbicides. Extreme care must be taken when using such tools. You will be given a full safety briefing and training prior to their use, which must be followed. **Students failing to operate tools in a safe and responsible manner may be removed from participation and will fail the course.**

## Course Learning Goals and Outcomes

The aims of the course are to:

- Utilize key restoration tools and interventions, and consider their ecological outcomes, in a case-study ecosystem
- Discuss logistical, practical, financial and ecological constraints on restoration projects
- Explore the concept of “Adaptive Management” as it pertains to ecosystem restoration including the development of project objectives, choice of interventions, monitoring to detect change and reevaluation of future management
- Consider the philosophical and ecological concepts which underpin decision-making in ecosystem restoration

By the end of this course students will be able to:

- Describe and implement key practical techniques used during ecosystem restoration
- Safely and effectively use hand tools during site restoration
- Safely and effectively apply herbicides to control invasive species
- Prepare sites, source, select and out-plant appropriate native species
- Assess challenges associated with the implementation of site restoration management plans
- Design and complete field monitoring to assess the effectiveness of restoration treatments
- Prepare site management/restoration progress reports

# How This Course Works

**Mode of delivery:** This course is taught in-person. Students are expected to attend class each week during the scheduled meeting sessions. **This is a service-learning course** that teaches practical field skills, so active participation is expected. Students will be working outdoors in all weather in the field, lab or greenhouse for the majority of the course. Key skills will be introduced and demonstrated in the field before students are given the opportunity to apply them in a safe and effective manner. Students will be required to reflect on the complexities, pitfalls, errors or issues inherent in the application of key restoration techniques.

**Pace of Carmen activities:** This course is divided into **weekly modules** that are released one week ahead of time. Students are expected to keep pace with weekly deadlines but may schedule their efforts freely within that time frame.

**Credit hours and work expectations:** This is a 2 credit-hour course. According to [Ohio State bylaws on instruction](http://go.osu.edu/credithours) (go.osu.edu/credithours), students should expect around 4 hours per week of time spent on direct instruction (instructor content, practical or experimental work) in addition to 4 hours of homework (reading and assignment preparation, for example) to receive a grade of C average.

**Attendance and participation requirements:** Research shows regular participation is one of the highest predictors of success. With that in mind, I have the following expectations for everyone's participation:

- **Participation: attendance at all classes is required**  
You are expected to log in to the course in Carmen every week. During most weeks you will probably log in many times. If you have a situation (emergency, illness) that might cause you to miss class, **discuss it with us as soon as possible** and strive to provide appropriate documentation.
- **Office hours: optional**

## Fieldwork Safety:

Safety during fieldwork is the prime responsibility of the individuals undertaking the fieldwork. Safe conduct extends to journeys to and from field locations. Responsible and careful behavior is thus an obligation for all students at all times. Infringement of this safety code, or indulging in any activity which is prejudicial to safety during a field course, will be regarded as a very serious matter.

Specifically, all students must:

- Ensure they have read any relevant risk assessments before fieldwork commences. Risk assessments will be available on Carmen and will be distributed at the start of the course.



- Obey all safety instructions given by the course convener, land/property managers and external training experts.
- Wear appropriate clothing for the type of work, weather and terrain likely to be encountered. For any class in which outdoor fieldwork is conducted the following guidelines should be followed. Long sleeves, long pants and walking shoes are required, students who attend class in shorts or open-toed shoes will not be allowed to participate and will be sent home and graded absent. A wind and waterproof outer jacket is also necessary; waterproof pants are highly recommended. Students should check local weather reports in preparation for class and bring an appropriate number of layers of warm clothing and waterproofs as necessary.
- When working in hot and sunny conditions, students should make sure to bring and consume a plentiful supply of fluid, and take care to avoid sun exposure – specifically, wear sunscreen, long sleeves and a hat.
- Avoid insect bites, specifically from ticks and mosquitos, by applying bug repellent prior to class (DEET-based formulas are recommended for the best protection). Since Lyme disease is present in Ohio, it is highly recommended that students tuck their pants into their socks and complete a tick-check after returning home from class.
- If instructed to do so, wear any required personal protective equipment in the field until such time as the responsible party instructs that it is safe to remove them.
- Report any fatigue, injury or illness to the course convener immediately, however trivial it may seem.
- Bring and consume snacks and water at regular intervals to avoid fatigue.
- Inform the course convener about any prior illness or medical conditions which might hinder you or re-occur during fieldwork. It is the student's responsibility to ensure that they have an up-to-date record of vaccination cover (such as for tetanus).
- Conduct themselves properly and with respect for others whilst in field residences or working with host organizations. Anti-social behavior is likely to lead to deterioration in safety and will not be tolerated. Follow rules and guidelines given by instructors, property owners or managers.



# Course Materials, Fees and Technologies

## Required Materials and/or Technologies

- N/A

## Recommended Course Reading

The following texts may be useful for enhancing your knowledge of topics covered in this course:

- Apfelbaum S.I. & Haney A.W. (2012) Restoring Ecological Health to Your Land. Washington D.C., Island Press.
- Packard S., Mutel C.F. & Jordan W.R. (2006) The Tallgrass Restoration Handbook: For Prairies, Savannas, and Woodlands. Washington D.C., Island Press.
- Kurtz C. (2013) A Practical Guide to Prairie Reconstruction. Iowa City, University of Iowa Press.
- Williams B.K., Szaro R.C., & Shapiro C.D. (2009) Adaptive Management: The U.S. Department of the Interior Technical Guide. Washington, DC., U.S. Department of the Interior. Available from: <https://www.doi.gov/sites/doi.gov/files/uploads/TechGuide-WebOptimized-2.pdf>Links to an external site.
- Additional papers, reports and multi-media resources relevant to the restoration tools described on the course will be provided on Carmen. You are strongly recommended to read them and to consider the results and concepts they discuss. These resources should be taken as a starting point for further reading not as an exhaustive list.

## Required Equipment

- **Computer:** current Mac (MacOS) or PC (Windows 10) with high-speed internet connection.
- **Webcam:** built-in or external webcam, fully installed and tested
- **Microphone:** built-in laptop or tablet mic or external microphone
- **Other:** a mobile device (smartphone or tablet) to use for BuckeyePass authentication

If you do not have access to the technology you need to succeed in this class, review options for [technology and internet access](https://go.osu.edu/student-tech-access) (go.osu.edu/student-tech-access).

## Required Software

**Microsoft Office 365:** All Ohio State students are now eligible for free Microsoft Office 365. Visit the [installing Office 365](https://go.osu.edu/office365help) (go.osu.edu/office365help) help article for full instructions.

## CarmenCanvas Access

You will need to use [BuckeyePass](https://buckeyepass.osu.edu) (buckeyepass.osu.edu) multi-factor authentication to access your courses in Carmen. To ensure that you are able to connect to Carmen at all times, it is recommended that you do each of the following:

- Register multiple devices in case something happens to your primary device. Information can be found at [BuckeyePass](https://buckeyepass.osu.edu) (buckeyepass.osu.edu).
- Users will only receive one SMS passcode at a time. Using the “Trust Browser” feature on a user’s first authentication log in of the day will allow the user to bypass the need for another passcode for 24 hours.
- [Install the Duo Mobile application](#) on all of your registered devices for the ability to generate one-time codes in the event that you lose cell, data, or Wi-Fi service.

If none of these options will meet the needs of your situation, you can contact the IT Service Desk at [614-688-4357 \(HELP\)](tel:614-688-4357) and IT support staff will work out a solution with you.

## Technology Skills Needed for This Course

- Basic computer and web-browsing skills
- [Navigating CarmenCanvas](https://go.osu.edu/canvasstudent) (go.osu.edu/canvasstudent)
- [CarmenZoom virtual meetings](https://go.osu.edu/zoom-meetings) (go.osu.edu/zoom-meetings)

## Technology Support

For help with your password, university email, CarmenCanvas, or any other technology issues, questions or requests, contact the IT Service Desk, which offers 24-hour support, seven days a week.

- **Self Service and Chat:** [go.osu.edu/it](https://go.osu.edu/it)
- **Phone:** [614-688-4357 \(HELP\)](tel:614-688-4357)
- **Email:** [servicedesk@osu.edu](mailto:servicedesk@osu.edu)



# Grading and Faculty Response

## How Your Grade is Calculated

Assignment Category	Percentage
Reflective Skills Diary	25
Quizzes	20
Occupational Health and Safety Training	5
Pesticide Mock Exam	5
Completion of Ohio Forestry Association Chainsaw Training	5
Risk Assessment and Fire Management Plan	10
Site Scoping Report	30

See [Course Schedule](#) for due dates.

## Descriptions of Major Course Assignments

### Reflective Skills Diary (25%)

**Description:** Each week students will submit a ca. 500-word reflective skills diary entry that documents tasks completed, knowledge gained, skills acquired, and safety precautions followed during class. This will include consideration of their importance in the context of restoration ecology and an ecological justification of work through reference to relevant scientific literature. An example reflective skills diary is provided on Carmen. Your lowest two scores will be dropped during the calculation of your final grade, provided all diary assignments have been submitted and this has been done timeously (excused absences considered).

**Academic integrity and collaboration:** Reflective skills diaries are to be completed individually. Students may use notes, books and the internet but may not collaborate with other students. Students may not use AI to assist in the completion of this assignment. Sources must be appropriately cited using a standardized citation method of your choosing (<https://guides.osu.edu/citation>).



## Quizzes (20%)

**Description:** Multiple-choice or short-answer quizzes based on class material will be posted on Carmen at the end of most weeks. Your lowest two scores will be dropped during the calculation of your final grade, provided all quizzes have been submitted, and this has been done timeously (excused absences considered).

**Academic integrity and collaboration:** Quizzes are to be completed individually. Students may use their books/notes to complete Quizzes but may not collaborate with other students nor use the internet or AI.

## Occupational Health and Safety Training (10%)

**Description:** Students must complete required OSU OHS trainings (*Hand and Power Tool Safety; Worker Protection Standard (WPS) - Handler Training; Worker Protection Standard (WPS) - Worker Training*) prior to engaging in any associated activities in the field. Training courses are accessed through: <https://ehs.osu.edu/occupational-health-and-safety-training>. Students must demonstrate completion by uploading certificates to Carmen.

**Academic integrity and collaboration:** Trainings are to be completed individually. Students may use their books/notes to complete trainings but may not collaborate with other students nor use the internet or AI.

## Pesticide Mock Exam (5%)

**Description:** After completion of the in-class OSU Extension pesticide workshop, students will complete a stand-alone quiz on Carmen that mimics the formal ODA exam, for which students will be given the opportunity to register.

**Academic integrity and collaboration:** This quiz must be completed individually. Students may use their books/notes to complete this quiz but may not collaborate with other students nor use the internet or AI.

## Completion of Ohio Forestry Association Chainsaw Training (5%)

**Description:** Two one-day training events will be held over the weekend at Chadwick Arboretum North. Students must attend either the Saturday or Sunday training and must be willing to make one cut with a chainsaw.

**Academic integrity and collaboration:** In-person attendance is required.

## Risk Assessment & Fire Management Plan (10%)

**Description:** For the Risk Assessment (4%) students will prepare a standardized document that identifies risks associated with a restoration workday, and how to mitigate them. The proposed workday utilizes community volunteers and focuses on invasive species control using hand and power tools, and herbicides. An example document is provided on Carmen. For the Fire Management Plan (6%) students will prepare a standardized document that outlines an approach, alongside any legal, logistical and safety considerations for the implementation of a prescribed fire at Chadwick Arboretum prairie. Example burn plans and recommended tools to guide completion of this task are provided on Carmen.

**Academic integrity and collaboration:** Students will complete the Risk Assessment and Fire Management Plan collaboratively with their group members (assigned by the instructor). Each student group will make a single submission of their group's assessment in Carmen and group members all receive the same grade. Students may use their book/notes as well as the internet to complete this assignment. Sources must be appropriately cited using a standardized citation method of your choosing (<https://guides.osu.edu/citation>). Use of AI is not permitted for this assignment unless specified by the instructor.

## Site Scoping Report (30%)

**Description:** Using data and skills developed during the course students will compile a site scoping report for Chadwick Arboretum North that includes: i) a section drawing of the site showing variation in topographical height and vegetation structure before restoration was completed, ii) site and treatment maps showing locations of key ecological habitats and restoration treatments, iii) results of a baseline vegetation survey, iv) a report narrative that contextualizes the above information and provides recommendations for future direction.

**Academic integrity and collaboration:** Students will complete the site scoping report collaboratively with their group members (assigned by the instructor). Each student group will make a single submission of their group's report in Carmen and group members all receive the same grade. Students may use their book/notes as well as the internet to complete this assignment. Sources must be appropriately cited using a standardized citation method of your choosing (<https://guides.osu.edu/citation>). Use of AI is not permitted for this assignment unless specified by the instructor.

## Late Assignments

- Please refer to Carmen for due dates. Due dates are set to help you stay on pace and to allow timely feedback that will help you complete subsequent assignments.
- Students may be granted an extension to an assignment deadline if communicated before the due date and a good reason is provided (considered by the instructor on a case-by-case basis). Extensions will only be given in retrospect in extreme situations.

- For all assignments where an extension has not been given, a penalty of 5% per 24 hours (or part thereof) late will be applied, up to a maximum of 5 days after which a grade of zero will be returned.
- Uncompleted/unsubmitted Quizzes and Reflective Skills Diaries (i.e. zero scores) will NOT entitle you drop your worst scores. In this instance, ALL zero scores will contribute to your final grade calculation.
- Participation is a critical component of this course. Unexcused absences resulting in an attendance record of < 85% will result in a 10-point penalty to your final grade.
- Unless there are exceptional circumstances, failing to attend an externally organized training session (e.g. pesticide and chainsaw training, pesticide license exam) without providing > 24 hours notice will result in a 10-point penalty to your final grade.

## Instructor Feedback and Response Time

I am providing the following list to give you an idea of my intended availability throughout the course. Remember that you can call [614-688-4357 \(HELP\)](tel:614-688-4357) at any time if you have a technical problem.

- **Preferred contact method:** If you have a question, please contact me first through my Ohio State email address. I will reply to emails within **24 hours on days when class is in session at the university**.
- **Class announcements:** I will send all important class-wide messages through the Announcements tool in CarmenCanvas. Please check [your notification preferences](http://go.osu.edu/canvas-notifications) (go.osu.edu/canvas-notifications) to ensure you receive these messages.
- **Grading and feedback:** For assignments submitted before the due date, I will try to provide feedback and grades within **fourteen days**. Assignments submitted after the due date may have reduced feedback and grades may take longer to be posted.]

## Grading Scale

93–100: A  
 90–92.9: A-  
 87–89.9: B+  
 83–86.9: B  
 80–82.9: B-  
 77–79.9: C+  
 73–76.9: C  
 70–72.9: C-  
 67–69.9: D+  
 60–66.9: D  
 Below 60: E



# Other Course Policies

## Discussion and Communication Guidelines

Example: The following are my expectations for how we should communicate as a class. Above all, please remember to be respectful and thoughtful.

- **Writing style:** While there is no need to participate in class discussions as if you were writing a research paper, you should remember to write using good grammar, spelling, and punctuation. A more conversational tone is fine for non-academic topics.
- **Tone and civility:** Let's maintain a supportive learning community where everyone feels safe and where people can disagree amicably. Remember that sarcasm doesn't always come across online. I will provide specific guidance for discussions on controversial or personal topics.
- **Citing your sources:** When we have academic discussions, please cite your sources to back up what you say. For the textbook or other course materials, list at least the title and page numbers. For online sources, include a link.
- **Backing up your work:** Consider composing your academic posts in a word processor, where you can save your work, and then copying into the Carmen discussion.

## Academic Integrity Policy

See [Descriptions of Major Course Assignments](#) for specific guidelines about collaboration and academic integrity in the context of this online class.

### Ohio State's Academic Integrity Policy

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's Code of Student Conduct, and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's Code of Student Conduct and this syllabus may constitute Academic Misconduct.

The Ohio State University's Code of Student Conduct (Section 3335-23-04) defines academic misconduct as: Any activity that tends to compromise the academic integrity of the University or subvert the educational process. Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's Code of Student Conduct is never considered an excuse for academic misconduct, so I recommend that you review the Code of Student Conduct and, specifically, the sections dealing with academic misconduct.

If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact the instructor for this course.

For more information:

- [Committee on Academic Misconduct](http://go.osu.edu/coam) (go.osu.edu/coam)

## Creating an Environment Free from Harassment, Discrimination, and Sexual Misconduct

The Ohio State University is committed to building and maintaining a community to reflect diversity and to improve opportunities for all. All Buckeyes have the right to be free from harassment, discrimination, and sexual misconduct. Ohio State does not discriminate on the basis of age, ancestry, color, disability, ethnicity, gender, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, pregnancy (childbirth, false pregnancy, termination of pregnancy, or recovery therefrom), race, religion, sex, sexual orientation, or protected veteran status, or any other bases under the law, in its activities, academic programs, admission, and employment. Members of the university community also have the right to be free from all forms of sexual misconduct: sexual harassment, sexual assault, relationship violence, stalking, and sexual exploitation.

To report harassment, discrimination, sexual misconduct, or retaliation and/or seek confidential and non-confidential resources and supportive measures, contact the Civil Rights Compliance Office:

Online reporting form at [civilrights.osu.edu](http://civilrights.osu.edu)  
Call 614-247-5838 or TTY 614-688-8605,  
Or Email [civilrights@osu.edu](mailto:civilrights@osu.edu)

The university is committed to stopping sexual misconduct, preventing its recurrence, eliminating any hostile environment, and remedying its discriminatory effects. All university employees have reporting responsibilities to the Civil Rights Compliance Office to ensure the university can take appropriate action:

- All university employees, except those exempted by legal privilege of confidentiality or expressly identified as a confidential reporter, have an obligation to report incidents of sexual assault immediately.
- The following employees have an obligation to report all other forms of sexual misconduct as soon as practicable but at most within five workdays of becoming aware of such information: 1. Any human resource professional (HRP); 2. Anyone who supervises faculty, staff, students, or volunteers; 3. Chair/director; and 4. Faculty member.

In addition, this course adheres to **The Principles of Community** adopted by the College of Food, Agricultural, and Environmental Sciences. These principles can be found at <https://cfaes.osu.edu/about/cfaes-principles-community>. If you have been a victim of or a witness to harassment or discrimination or a bias incident, you can report it online and anonymously (if you choose) at <https://civilrights.osu.edu/>.

## Intellectual Diversity

Ohio State is committed to fostering a culture of open inquiry and intellectual diversity within the classroom. This course will cover a range of information and may include discussions or debates about controversial issues, beliefs, or policies. Any such discussions and debates are intended to support understanding of the approved curriculum and relevant course objectives rather than promote any specific point of view. Students will be assessed on principles applicable to the field of study and the content covered in the course. Preparing students for citizenship includes helping them develop critical thinking skills that will allow them to reach their own conclusions regarding complex or controversial matters.

## Your Mental Health

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing.

If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life's Counseling and Consultation Service (CCS) by visiting [ccs.osu.edu](https://ccs.osu.edu) or calling 614-292-5766. CCS is located on the 4th floor of the Younkin Success Center and 10th floor of Lincoln Tower. You can reach an on-call counselor when CCS is closed at 614-292-5766 and 24-hour emergency help is also available through the 24/7 by dialing 988 to reach the Suicide and Crisis Lifeline.

For students in the College of Food, Agricultural, and Environmental Sciences, David Wirt, [wirt.9@osu.edu](mailto:wirt.9@osu.edu), is the CFAES embedded mental health counselor on the Columbus campus. To contact David, please call 614-292-5766. Students should mention their affiliation with CFAES if interested in speaking directly with David.

## Religious Accommodations

Ohio State has had a longstanding practice of making reasonable academic accommodations for students' religious beliefs and practices in accordance with applicable law. In 2023, Ohio State updated its practice to align with new state legislation. Under this new provision, students must be in early communication with their instructors regarding any known accommodation requests for religious beliefs and practices, providing notice of specific dates for which they request alternative accommodations within 14 days after the first instructional day of the course. Instructors in turn shall not question the sincerity of a student's religious or spiritual belief system in reviewing such requests and shall keep requests for accommodations confidential.

With sufficient notice, instructors will provide students with reasonable alternative accommodations with regard to examinations and other academic requirements with respect to students' sincerely held religious beliefs and practices by allowing up to three absences each semester for the student to attend or participate in religious activities. Examples of religious accommodations can include, but are not limited to, rescheduling an exam, altering the time of a student's presentation, allowing make-up assignments to substitute for missed class work, or flexibility in due dates or research responsibilities. If concerns arise about a requested accommodation, instructors are to consult their tenure initiating unit head for assistance.

A student's request for time off shall be provided if the student's sincerely held religious belief or practice severely affects the student's ability to take an exam or meet an academic requirement and the student has notified their instructor, in writing during the first 14 days after the course begins, of the date of each absence. Although students are required to provide notice within the first 14 days after a course begins, instructors are strongly encouraged to work with the student to provide a reasonable accommodation if a request is made outside the notice period. A student may not be penalized for an absence approved under this policy.

If students have questions or disputes related to academic accommodations, they should contact their course instructor, and then their department or college office. For questions or to report discrimination or harassment based on religion, individuals should contact the [\*\*Civil Rights Compliance Office\*\*](#).

Policy: [\*\*Religious Holidays, Holy Days and Observances\*\*](#)

## Weather or other short-term closing

Although Ohio State strives to remain open to ensure continuity of services to students and the public, extreme conditions can warrant the usage of the university's [\*\*Weather or\*\*](#)

**Other Short-Term Closing Policy**. Please **visit this webpage** to learn more about preparing for potential closings and planning ahead for winter weather.

## **ACCESSIBILITY ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES**

### Requesting Accommodations

The university strives to maintain a healthy and accessible environment to support student learning in and out of the classroom. If you anticipate or experience academic barriers based on your disability (including mental health, chronic, or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion.

If you are ill and need to miss class, including if you are staying home and away from others while experiencing symptoms of a viral infection or fever, please let me know immediately. In cases where illness interacts with an underlying medical condition, please consult with Student Life Disability Services to request reasonable accommodations. You can connect with them at [slds@osu.edu](mailto:slds@osu.edu); 614-292-3307; or [slds.osu.edu](http://slds.osu.edu).

### Disability Services Contact Information

- Phone: [614-292-3307](tel:614-292-3307)
- Website: [slds.osu.edu](http://slds.osu.edu)
- Email: [slds@osu.edu](mailto:slds@osu.edu)
- In person: [Baker Hall 098, 113 W. 12th Avenue](#)

## Accessibility of Course Technology

This online course requires use of CarmenCanvas (Ohio State's learning management system) and other online communication and multimedia tools. If you need additional services to use these technologies, please request accommodations as early as possible.

- [CarmenCanvas accessibility](http://go.osu.edu/canvas-accessibility) (go.osu.edu/canvas-accessibility)
- Streaming audio and video
- [CarmenZoom accessibility](http://go.osu.edu/zoom-accessibility) (go.osu.edu/zoom-accessibility)

## Copyright for Instructional Materials

The materials used in connection with this course may be subject to copyright protection and are only for the use of students officially enrolled in the course for the educational purposes associated with the course. Copyright law must be considered before copying, retaining, or disseminating materials outside of the course.



# Course Schedule

Refer to the CarmenCanvas course for up-to-date due dates.

Week	Class Date	Class Topic	Skills Introduced	Assignments Due
1	29 Aug	Course Introduction:	Overview of course structure and reconnaissance of the restoration site	Quiz: Course intro
2	5 Sep	Site mapping and scoping (1)	Three modules: <ul style="list-style-type: none"> <li>• Topographic surveying and section drawing</li> <li>• Using a GPS, creating restoration maps; planning seeding and planting</li> <li>• Methods for baseline vegetation surveying and long-term monitoring</li> </ul>	Diary: Site walk OHS: Worker Protection Standard: Worker
3	12 Sep	Site mapping and scoping (2)	Continue rotation through remaining modules	Quiz & Diary: Topo / GPS / Vegetation OHS: Worker Protection Standard: Handler



4	19 Sep	Pesticide Training Workshop	Use and application of herbicides to control invasive species. To be delivered by Ohio Pesticide Safety Education Program (OSU Extension). <b>BOTH sections <u>MUST</u> attend on Friday. If you have a conflicting course, we can provide a letter to excuse you this week</b>	Quiz & Diary: Topo / GPS / Vegetation  OHS: Hand and Power Tool Safety
5	26 Sep	Site mapping and scoping (3)	Continue rotation through remaining modules	Mock Pesticide Exam
	27, 28 Sep	<b>OFA CHAINSAW TRAINING weekend (attend one day)</b>		
6	3 Oct	Invasive species control; seed collection (1)	Two modules: <ul style="list-style-type: none"> <li>Using hand &amp; power tools to remove woody invasive species; follow-up herbicide control (two weeks)</li> <li>Native seed collection and drying (one week)</li> </ul>	Quiz & Diary: Topo / GPS / Vegetation
7	10 Oct	Invasive species control; seed collection (2)	Continue rotation through remaining modules	Quiz & Diary: Invasive species / Seed collection
8	<b>15 Oct (WED)</b>	<b>ODA Commercial Pesticide Applicator License EXAM</b>	<b>BOTH sections <u>MUST</u> attend on Wednesday. If you have a conflicting course, we can provide a letter to excuse you this week.</b>	
9	24 Oct	Invasive species control; seed collection (3)	Continue rotation through remaining modules	Quiz & Diary: Invasive species / Seed collection

10	31 Oct	Seed processing	Seed cleaning and quality assessment, stratifying and processing native seeds for use in restoration	Risk Assessment and Fire Management Plan (group task)
11	7 Nov	Applying seed mixes in the field	Seed mix/species selection, ground preparation, calculating seeding rates and seeding using manual broadcasting methods	Quiz & Diary: Seed processing
12	14 Nov	Field trip to Olentangy River Wetlands		Quiz & Diary: Applying seed mixes
13	21 Nov	Field trip to Coyote Run	Direct seeding woody plants	Diary: ORW field trip
14	28 Nov	HAPPY THANKSGIVING – no classes		Diary: Coyote Run field trip
15	5 Dec	Outplanting woody vegetation	Planting and protecting woody trees and shrubs	Quiz and Diary: Outplanting
16	Classes end 10 Dec	Report Development Workshop	Open session for mentoring/guidance on data analysis for final report (ONLINE)	Final Report Due (group task)